



Government of Andhra Pradesh

**COMMON SCHEDULE OF RATES
AS PER
A.P. REVISED STANDARD
DATA FOR THE YEAR 2022-23
(Effective from 1st June, 2022)**

BOARD OF CHIEF ENGINEERS

MASTER INDEX

SL.N o.	Description	Page No.	
		From	To
1	Part-I(Water Resources Work Items)	1	46
2	Part-II (Roads & Bridge Work Items)	1	29
3	Part-IV(Public Health Work Items)	1	117
4	Part-III(Building Work Items)	1	635
5	Annexure-Latest G.O. on Seignorage Charges	1	7

**Office of the Engineer-in-Chief (A.W/I.W)
Water Resources Dept., Currency Nagar,Vijayawada.**

Procs.No.ENC/IW/P&M/EE.1/DEE-3/AEE (N)/ SoR 2022-23/Vol.1 dt:13 .07.2022

Sub: Schedule of Rates for the year 2022-23 with basic rates (excluding GST) (as per A.P.Revised Standard Data) -Part-I(Water Resources Dept. Works), Part-II(Road & Bridge Works), Part-III(Buildings) and Part-4 (Public Health Works) approved - Printing& Communication of SoRs - Reg.

- Ref:**
1. G.O.Ms.No.49,I&CAD (PW:Reforms)Dept., dt:2.3.2009.
 2. Commissioner of Labour, Andhra Pradesh, Vijayawada vides Proceedings no.G / 723 /2022 dt:01.04.2022 under Minimum Wages Act, 1948.
 3. ENC(R&B), Admn & NDB Lr.No.SoR-II/ ENC/ DEC(R)/ EE (TEC)/ DEE 6/AEE2 /2022 dt: 02.06.2022.
 4. C.E Buildings Vijayawada Lr No.20938/SOR/DCE(B)/EE(B)/DEE(B)/AEE2/ 2022 dt:21.06.2022
 5. ENC (PH) Lr.No. 146/T4/SoR 2022-23 dt: 27.06.2022.
 6. T.O. Lr. No. ENC/ IW/SE (P&M)/ EE.I/ DEE.3/ AEE (N)/ SoR 2022-23/ Vol.I dt:11.07.2022.
 7. ENC (PH) Lr.No. 146/T4/SoR 2022-23 dt: 13.07.2022.
 8. ENC (R&B), Admin Lr.No.SoR-II/ENC/DCE(R)/ EE(TEC)/ DEE6 /AEE2 /2022 dt:13. 07.2022.
 9. C.E Buildings Vijayawada Lr No.20938/SOR/DCE(B)/EE(B)/DEE(B)/AEE/2022 dt:13.07.2022.

The Government have approved A.P.Revised Standard Data vide ref 1st cited. The Schedule of Rates with basic rates(excluding GST) as per the A.P.Revised Standard Data for the year 2022-23 is approved based on the following:

The ENC(R&B) vide ref. 3rd cited has furnished the draft basic rates exclusive of GST for Roads & Bridge items for the year 2022-23.

Chief Engineer Buildings, Vijayawada has also submitted the Part-III (Buildings) for SoR 2022-23 vide reference 4th cited.

The Engineer-in-Chief, Public Health Department has furnished draft basic rates exclusive of GST for Public Health works items and Public Health Materials vide ref 5th cited.

For Water Resources Department work items, the Regional Superintending Engineers: SE, IC, Dowlaiswaram, SE, IC, Chittoor and SE, IC, Vijayawada have submitted the draft basic rates of materials. The SE, IC, Guntur has furnished draft rates for Mechanical and Workshop items. Accordingly, the draft rates for Water Resources Department are prepared.

The labour wages are finalized based on the rates as recommended by Regional Superintending Engineers duly keeping in view of the minimum wages as declared by the Commissioner, Labour Department vide ref 2nd cited.

Based on the above proposals, the draft Schedule of Rates for the part-I (WR items), Part-II(Roads & Bridge items), Part-III(Buildings) & Part-IV(PH items) are prepared

for the SoR year 2022-23 and placed before the annual Board of Chief Engineers(BoCEs) meeting for approval. The BoCEs has reviewed and finalized the rates of above four parts during the annual SoR meeting held on 28.06.2022 in the conference hall of Engineer-in-Chief (A.W/I.W), Vijayawada.

The minutes containing the recommendations of the BoCEs, vide reference 6th cited, are communicated to ENC(R&B), CE(Buildings) and ENC (PH) for updating the draft rates.

Based on the minutes of meeting, the ENC (PH) and ENC(R&B), Admin, Chief Engineer (Buildings) have furnished, vide references 7th, 8th and 9th cited above, the final copies of PART-II, Part-III and PART-IV respectively for incorporating into SoR-2022-23.

The procedure for the adoption of Water Resources Department work items, lead & lift charges (Common to all Departments) is shown in the Annexure-A of SoR.

The approved basic rates (excluding GST) are applicable to the data i.e., A.P.Revised Standard Data approved by the Government vide G.O.1st cited.

For Roads & Bridge Works, the rates can be applied for MoRTH data as approved in the G.O. Ms. No. 2, Transport, Roads and Buildings (R-I) Dept., dt: 12.01.2015.

The lead & lift charges are common to all Engineering Departments. The detailed calculations are incorporated in the Lead & lift chapter in the WR Works (Part-I) of A.P.Revised Standard Data.

No other items other than the items communicated now by this Office shall be introduced in the SoR 2022-23.

The Heads of Department and Officers mentioned below are authorized to printout the Schedule of Rates for the year 2022-23. Unauthorized printing & selling of the SoR is strictly prohibited.

Any discrepancies found (or) corrections required in SoR 2022-23 may be brought to the notice of undersigned for issuing corrections.

The revised rates will come into force with effect from 1st June of 2022.

The receipt of the proceedings may be acknowledged in the 1st instance.

**Encl: SoR 2022-23 Containing Part-I (Water Resources Dept. works),
Part-II (Roads & Bridge works),
Part-III (Buildings) and Part-IV (Public Health Items).**

**Sd/-R.Sathish Kumar,13.07.2022
Engineer-in-Chief (A.W/ I.W)
Chairman, BOCE (SoR)
Water Resources Department**

- I. Copy submitted to the Principal Secretary to Govt., WR Dept., 4th Block, A.P.Secretariat Buildings, Velagapudi, Amaravathi.
- II. Copy communicated to the following Heads of Departments along with enclosures for information.
 1. Engineer-in-Chief (Admn), Roads & Buildings Department.
 2. Engineer-in-Chief, Public Health Department.
 3. Engineer-in-Chief, Panchayath Raj Department.
 4. Engineer-in-Chief, RWS, Department.
 5. Chief Engineer (Buildings & RWS), R&B Department.
- III. Copy of Scheduled of Rates 2022-23 with basic rates & Standard data, Part-I (WR Dept. works) communicated to the respective E-mail ids of all the Engineers-in-Chief, Chief Engineers and Regional Superintending Engineers of Irrigation circles of Vijayawada, Guntur, Dowlaiswaram and Chittoor of Water Resources Department for taking necessary action.
- IV. Copy to DEE (Computers), ENC (AW) for uploading the approved SoR-2022-23 (Part-I, Part-II, Part-III & Part-IV) on the Water Resources Department website and to communicate this proceedings to all the members of the Board of Chief Engineers through E-mail.

Sd/-R.Sathish Kumar,13.07.2022
Engineer-in-Chief (A.W/I.W)
Chairman, BOCE (SoR)
Water Resources Department.

**Important – Read The following
ANNEXURE- A**

- 1)** The SPIU(Irrigation), Centre for Good Governance (CGG), Hyderabad has developed software package linking the basic input data of Irrigation with approved data of Water Resources work items.
- 2)** The lead and lift charges are common to all Engineering Departments. The detailed calculations are incorporated in the Lead & Lift charges chapter in the Water Resources Department works (Part-I) of A.P. Revised standard data.
- 3)** The estimate sanctioning authority shall physically verify each and every Water Resources work item data incorporated in the estimate with basic input data before sanction of the estimate. Any lapses or arithmetic errors arising in the sanction of data /estimate due to adoption of the software package lies entirely on the concerned estimate sanctioning authority only.
- 4)** Any discrepancies / corrections required for improper basic input data appearing in the approved data of Water Resources work items in the software package and hard copy of SoR & Standard data (Part-I) may be brought to the notice of undersigned for issuing corrections.

**Sd/-R.Sathish Kumar.dt.13.07.2022
Engineer-in-Chief (A.W/I.W)
Chairman, BOCE(SoR)
Water Resources Department**

Index – WR Items (Part-I)

Sl. No.	Description	Page No.s	
		From	To
1	Preamble	1	4
2	Labour Rates	5	9
3	Material Rates	10	36
4	Conveyance Charges of Materials	37	41
5	Hire Charges of Machinery	42	46

PREAMBLE

PREAMBLE

1.0 AREA ALLOWANCES:

A) CORPORATIONS & MUNICIPALITIES:

- a) (i) 25% extra over the rates on labour component of works is allowed in all Municipal Corporation Limits of Andhra Pradesh except Greater Visakhapatnam and Vijayawada municipal corporations (up to a belt of 12 Kms. from Municipal Corporation limits) and other corporations as notified by the Government from time to time.
- (ii) 40% extra over the rates on labour component of works for Greater Visakhapatnam and Vijayawada Municipal Corporation (up to a belt of 12 Kms. from Municipal Corporation limits).
- (iii) 40% extra over the rates on labour component of works for Amaravati Capital City area(217 sq.km) as declared by the Govt.vide G.O.Ms.No.141,MA&UD (M2)Dept., dt:09.06.2015(This is introduced as per the Govt instructions issued in Govt.memo.No.668755/Reforms/2017 d:14.07.2017).
- b) Allow 20% extra over basic rates on labour component of works in all District Headquarters and the remaining Municipal limits (up to a belt of 12 Kms from Municipal limits).
- c) For works at Tirumala Hills in Chittoor District, 40% extra over the basic rates of labour component is allowed.
- d) For works at Horsely hills in Chittoor District, 30% extra over the basic rates of labour component is allowed.
- e) For works located inside Tirumala Temple, 20% extra over the basic rate of labour component specified for Tirumala Hills is allowed.
- f) For Works located inside T.T.D Temples of Sri Padmavathi Ammavari Temple, Tiruchanoor, Sri Govindaraja Swamy Temple at Tirupathi, Sri Kapleswara Swamy Temple, Kapilatheerthm, Tirupathi and Sri Kalyana Venkateswara Swamy Temple, Srinivasa Mangapuram , 20% extra over the basic rates of labour component for Tirupathi Municipal Corporation is allowed.

B) JAIL COMPOUNDS:

20% extra is allowed over labour rates for the work in the Jail compounds. Only equivalent number of Man Mazdoor shall be provided in the Jail premises and no women Mazdoor are allowed inside.

C) INDUSTRIAL AREA:

- a. 20% over basic rates on labour component works allowed for works situated within 10Kms belt of Industrial area of, Ibrahimpattanam, Vuyyuru, Jaggaiahpeta in Krishna District, Macherla, Gurajala, Challapalli in Guntur District Garividi in Vijayanagaram District, Renigunta in Chittoor District and Yerraguntla & Mangampet in Kadapa District, Hindupur, Tadipatri, Anantapur, Guntakal, Rayalcheruvu, Yadiki of Anantapur District and Adoni, Dhone,Cement Nagar, Nandyal, Kurnool, Yemmiganur & Bethamcherla of Kurnool District, Anakapally of Vishakhapatnam District.

D) AGENCY / TRIBAL AREAS:

- a) 25% extra is allowed for the works located within the interior Agency / Tribal limits, i.e. for the works located within & upto 16 KMs from any all weather route inside Agency / Tribal.
- b) 40% extra is allowed for the works located within the interior Agency / Tribal limits, i.e. for the works located beyond 16 KMs from any all weather route inside Agency / Tribal.

- NOTE:**
1. No extra percentage is permissible in respect of Forest produce such as Bamboo, Rellu grass and for all materials obtained from outside the Agency / Tribal.
 2. The extra percentage under Agency / Tribal areas allowance may be allowed on the labour component and on the labour charges in the rates for conveyance of materials.
 3. The extra percentage on cost of materials in Agency / Tribal areas can be allowed on the labour component only, if they are manufactured in the Agency / Tribal areas itself except Forest produce.

E) GHAT ROADS:

For Ghat Roads steeper than 1 in 20, the length of the road may be taken as 1.5 times the existing length of the road for the purpose of leads only for conveyance of materials based on the certificate for the Ghat Road given by the Superintending Engineer concerned.

Foot Note: Under compelling circumstances, the concerned Chief Engineer can adopt the equivalent length of road as 2 ½ times of actual length.

Note below area allowances:

If more than one area allowance (such as those) for (1) Municipalities (2) Agency/Tribal areas (3) Industrial areas are applicable for a particular situation, only the maximum out of the allowable percentages is to be allowed.

EXCAVATION OF TRIAL TRENCHES, TRIAL PITS AND EXCAVATION IN RESTRICTED PLACES:

I) EXCAVATION OF TRIAL TRENCHES, TRIAL PITS AND EXCAVATION IN RESTRICTED PLACES: -

A. TRIAL TRENCHES:

- 1) Trial trenches of not more than 2 metres in width...25% extra.

B. TRIAL PITS:

1) Up to 2 Metres depth	...	25% extra
2) 2 Metres to 4 Metres depth	...	50% extra
3) 4 Metres to 6 Metres depth	...	75% extra
4) 6 Metres to 8 Metres depth	...	100% extra
5) 8 Metres to 9 Metres depth	...	150% extra
6) More than 9 Metres depth	...	200% extra

II) EXCAVATION IN RESTRICTED PLACES:-

I) Foundation of Buildings	....	75% extra
II) For pipe lines where the depth is less than 1.5 times the width	....	75% extra
III) For pipe lines where the depth is 1.5 times or more than the width	....	120% extra
IV) Silt removal in restricted areas such U. T's., Culverts and Syphons	....	120% extra
V) Excavation of field channels	....	75% extra
VI) For narrow trenches not more than 2 meters in width and depth not less than twice the width and for excavation of road boundary drains, model sections of canals	....	75% extra
VII) High berm cutting of not more than 150 mm average thickness and sectioning for roads	....	50% extra

Note: 1) The extra percentage is allowed over Common item for all earth works (COM-MWRK- Manual Works) for corresponding soil and Standard data items. It includes the charges for all lifts and initial lead but does not include dewatering charges if any in respect of all the items under (A) and (B) above.

2) The above extra percentages in respect of excavation in hard rock for restricted places are to be allowed for (2/3)rd of the cost and shall not to be allowed in respect of items involving blasting component which may be taken as 1/3 of the cost.

3.0 SEIGNIORAGE CHARGES:

The rates of the materials indicated in the SOR are exclusive of Seigniorage Charges. Appropriate Seigniorage Charges for relevant materials are to be added to the Unit rate of work item in the estimates as fixed by the Government in G.O.Ms.No.11 (Industries and Commerce Dept.) dt: 11.02.2020. In case of revision, the revised rates as fixed by Mines and Geology Department have to be adopted.

LABOUR RATES

LABOUR RATES

Sl No.	CFMS CODE	CATEGORY OF WORKER	S. Rate for 2022-23
1	2	3	4
I.		SKILLED CATEGORY:	
1	LAB-00001	Bar bender	750
2	LAB-00002	Black smith / Tin smith / Rivetor	590
3	LAB-00003	Blaster	690
4	LAB-00004	Carpenter Cl- I	705
5	LAB-00005	Electrician (Licensed)	700
6	LAB-00006	Fitter Cl- I	660
7	LAB-00007	Floor Polisher / Tile Layer	590
8	LAB-00008	Foreman	690
9	LAB-00009	Gauge reader	585
10	LAB-00010	Maistry / Work Inspector with Non-technical Qualification SSLC/SSC/HSC	685
11	LAB-00011	Mason Cl- I / Brick layer Cl- I	630
12	LAB-00012	Mechanic Cl- I	635
13	LAB-00013	Operator Air compressor / DG set	615
14	LAB-00014	Operator Batching plant	700
15	LAB-00015	Operator Bus/Ambulance/ Lorry/ Tanker	675
16	LAB-00016	Operator Concrete / Asphalt mixer	615
17	LAB-00017	Operator Concrete / Asphalt paver	615
18	LAB-00018	Operator Concrete pump / Placer/ ice plant	615
19	LAB-00019	Operator Core drilling machine	690
20	LAB-00020	Operator Crane/ Tower crane/ Cable way	690
21	LAB-00021	Operator Drilling jumbo / Loco / Winch	615
22	LAB-00022	Operator Grouting/ Guniting/ Shotcreting	615
23	LAB-00023	Operator Jackhammer/Pneumatic tamper	615
24	LAB-00024	Operator Pump / Ventilation fan	615
25	LAB-00025	Operator Lathe/Drilling/Shearing machine	690
26	LAB-00026	Operator Bending / Planing machine	615
27	LAB-00027	Operator Road roller	635

Sl No.	CFMS CODE	CATEGORY OF WORKER	S. Rate for 2022-23
1	2	3	4
28	LAB-00028	Operator Shovel / Scraper / Dozer	690
29	LAB-00029	Operator Spillway / Sluice gate	615
30	LAB-00030	Operator Crusher / Conveyor / Mucker	615
31	LAB-00031	Operator Tipper / Dumper / Transit mixer	690
32	LAB-00032	Operator Concrete vibrator	615
33	LAB-00033	Operator Vibratory plain / pad foot roller	615
34	LAB-00034	Operator Wagon drill / Drifter	690
35	LAB-00035	Painter Cl- I	705
36	LAB-00036	Plumber / Pipe fitter	705
37	LAB-00037	Sarang / Khalasi	615
38	LAB-00038	Spun pipe moulder	615
39	LAB-00039	Stone chiseller Cl- I / Stone cutter Cl- I	620
40	LAB-00040	Struct. steel Fabricator / Marker / Erector	750
41	LAB-00041	Welder / Gas Cutter	615
42	LAB-00042	Welder (X-ray quality)	690
II.		SEMI SKILLED CATEGORY:	
1	LAB-00057	Asphalt Sprayer / Boiler attendant	565
2	LAB-00058	Bhisti	565
3	LAB-00059	Boatman with boat	565
4	LAB-00060	Carpenter Cl- II / Erector shuttering	565
5	LAB-00061	Cartman with double bullock cart	630
6	LAB-00062	Cartman with single bullock cart	590
7	LAB-00063	Chavali / Navagani	565
8	LAB-00064	Crowbarman / Jumper man	565
9	LAB-00065	Fitter Cl- II	565
10	LAB-00066	Gang man / Head / Survey mazdoor	565
11	LAB-00067	Gardener / Trained mali	565
12	LAB-00068	Air compressor / DG set	565
13	LAB-00069	Helper Batching plant	565
14	LAB-00070	Helper Blasting	565

Sl No.	CFMS CODE	CATEGORY OF WORKER	S. Rate for 2022-23
1	2	3	4
15	LAB-00071	Helper Bus/ Ambulance/ Lorry/ Tanker	565
16	LAB-00072	Helper Bending/Shearing/Planing machine	565
17	LAB-00073	Helper Carpenter	565
18	LAB-00074	Helper Concrete / Asphalt mixer	565
19	LAB-00075	Helper Concrete / Asphalt paver	565
20	LAB-00076	Helper Core drilling machine	565
21	LAB-00077	Helper Crane/ Tower crane/ Cable way	565
22	LAB-00078	Helper Drilling jumbo / Loco / Winch	565
23	LAB-00079	Helper Fitter / Fabrication/Electrician	565
24	LAB-00080	Helper Grouting/ Guniting/ Shotcreting	565
25	LAB-00081	Helper Jack hammer / Pneumatic tamper	565
26	LAB-00082	Helper Laboratory / Instrumentation	565
27	LAB-00083	Helper Road roller	565
28	LAB-00084	Helper Shovel / Scraper / Dozer	565
29	LAB-00085	Helper Crusher / Conveyor / Mucker	565
30	LAB-00086	Helper Tipper / Dumper/ Transit mixer	565
31	LAB-00087	Helper Vibrator	565
32	LAB-00088	Helper Vibratory plain/ pad foot roller	565
33	LAB-00089	Helper Wagon drill/ Drifter	565
34	LAB-00090	Lineman Electric / Telephone	565
35	LAB-00091	Mason Cl- II / Brick layer Cl-II	565
36	LAB-00092	Mechanic Cl- II	565
37	LAB-00093	Painter Cl- II	565
38	LAB-00094	Patkari / Neeraganti / Sowdy	565
39	LAB-00095	Stone Chiseller Cl- II	565
40	LAB-00096	Stone breaker / Hammer man	565
41	LAB-00097	Valve man / Canal sluice operator	565
III.		UN-SKILLED CATEGORY:	
1	LAB-00118	Cement / Asphalt handling mazdoor	525
2	LAB-00119	Civic worker	525
3	LAB-00120	Man mazdoor	525

Sl No.	CFMS CODE	CATEGORY OF WORKER	S. Rate for 2022-23
1	2	3	4
4	LAB-00121	Woman mazdoor	525
5	LAB-00122	Watchman	525
IV.		OTHER CATEGORY:	
1	LAB-00124	Care-taker / conductor / Lift Attender	565
2	LAB-00125	Cook / Mess man	565
3	LAB-00126	Dhobi	565
4	LAB-00127	Diploma Engineer / Surveyor	975
5	LAB-00128	Diver with headgear	720
6	LAB-00129	Graduate / Laboratory Assistant	720
7	LAB-00130	Graduate Engineer/ Geologist	1,255
8	LAB-00131	Horticulture Assistant / Photographer	580
9	LAB-00132	ITI certificate holder / Tracer / Printer	705
10	LAB-00133	Literate mazdoor	540
11	LAB-00134	Stenographer / Computer Operator	770
12	LAB-00135	Telephone / Wireless Operator	690
13	LAB-00136	Typist / Job Typist	690
14	LAB-00137	CAD operator with Diploma in Engineering/General degree with CAD certificate	975
15	LAB-00138	Jeep Driver	685
16	LAB-00139	Data Processing Operator	940

Note: - 1)The wage should not be less than the minimum wages of schedule of employment, subject to out turn. 2) 25% extra over the corresponding labour rates in respect of the work to be done during night time subject to issue of certificate accordingly by the concerned estimate sanctioning authority for providing in the data and by concerned Executive Engineer in charge of the work for payment. The night time allowance is applicable only to the works done under Greater Visakhapatnam Municipal Corporation and Vijayawada Municipal Corporation limits only.

BASIC INPUT DATA FOR WATER RESOURCES WORK ITEMS

**STATEMENT OF RATES FOR MATERIALS
FOR THE YEAR: 2022-23
GENERAL GUIDE LINES FOR REVISING RATES OF MATERIALS:**

1. Average of the prevailing market rates, ignoring freak rates, is the criteria for Fixing market rates for materials.
2. The rates for materials are **exclusive of GST**, duties and other local levies.
3. The rates for materials are **exclusive of** Seigniorage charges wherever applicable.
4. The rates for materials, **except** those for which lead charges are admissible as per the Statement of lead charges is for all leads.
5. The rates provided for useful rubble / stone chips from excavation shall be at dump yard.
6. Unless otherwise specified the rate of materials are inclusive of loading charges.

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2022-23
1	2	3	4	5
1	MAT-00001	Acetylene gas	cum	370
2	MAT-00002	Asphalt 80/100 Grade	Kg	47
3	MAT-00003	Binding wire	Kg	70
4	MAT-00004	Burnt stone slab 10 cm thick	sqm	347
5	MAT-00005	Cement 43 Gr/53 Gr Note: Rate as fixed by the Government	tonne	4,220
6	MAT-00006	Chequered plate	Kg	66
7	MAT-00007	Coarse aggregate 10-4.75 mm	cum	1,016
8	MAT-00008	Coarse aggregate 20-10 mm	cum	1,395
9	MAT-00009	Coarse aggregate 40-20 mm	cum	1,333
10	MAT-00010	Coarse aggregate 80-40 mm	cum	728
		The aggregate rates mentioned above (from Sl.No.7 to Sl.No.10) are exclusive of Seigniorage charges but including blasting charges of Rs.70/cum and 25% machine crushing charges. However, if the metal is obtained from hand broken, the blasting and crushing charges shall be deducted. The aggregate shall be HB Stone of Granite, Dolomite, Dolerite and Trap. (Quartzite and Basalt with aggregate impact of less than 20)		
11	MAT-00011	Coir brush	Each	52

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2022-23
1	2	3	4	5
12	MAT-00012	Copper sheet 16 SWG	Kg	762
13	MAT-00013	Coursed rubble stone 30 x 30 x 45 cm	Each	29
14	MAT-00014	Coursed rubble stone 30 x 30 x 60 cm	Each	34
15	MAT-00015	Curing Compound	Ltr	137
16	MAT-00016	D – cord	Rm	9
17	MAT-00017	Delay - noiseless trunk	Each	22
18	MAT-00018	Detonating fuse coil	Rm	10
19	MAT-00019	Detonating shock tube / Cord relays	Rm	41
20	MAT-00020	Detonator delay type	Each	23
21	MAT-00021	Detonator electric	Each	12
22	MAT-00022	Detonator ordinary	Each	9
23	MAT-00023	Empty cement bag	Each	7
24	MAT-00024	Explosive ANFO	Kg	49
25	MAT-00025	Explosive ANFO high strength booster	Kg	76
26	MAT-00026	Explosive small dia (Kelvex-220 or equivalent)	Kg	76
27	MAT-00027	(a)Fine aggregate/ sand(un- screened) for Concrete & Filtering items)	Cum	605
	MAT-00028	(b)Fineaggregate/Sand(un screened)for filling	Cum	460
28	MAT-00029	Fine aggregate /Sand (Screened) for Mortar ,Plastering items and Sand blasting items (Rs.95 is added towards screening Charges)	Cum	700
29	MAT-00030	Geo-textile (filter fabric) 160 gsm	Sqm	102
30	MAT-00031	Geo-textile (filter fabric) 200 gsm	Sqm	116
31	MAT-00032	Geo-textile (filter fabric) 250 gsm	Sqm	130
32	MAT-00033	G I Pipe 100 mm dia B Class	Rm	795
33	MAT-00034	G I Pipe 15 mm dia A class	Rm	99

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2022-23
1	2	3	4	5
34	MAT-00035	G I pipe 25 mm dia A class	Rm	167
35	MAT-00036	G I pipe 40 mm dia B class	Rm	248
36	MAT-00037	G I pipe 50 mm dia A class	Rm	291
37	MAT-00038	G I Pipe 80 mm dia B Class	Rm	529
38	MAT-00039	G.I Bolts / Nuts and Washers	Kg	115
39	MAT-00040	G.I sheet (plain)	tonne	65,275
40	MAT-00041	Hariyala turfing sods	Sqm	30
41	MAT-00042	Hectometer stone one line dressed	Each	325
42	MAT-00043	Hemp yarn	Kg	83
43	MAT-00044	Honne wood planks	Cum	47,650
44	MAT-00045	Hume pipe with collar 150 mm dia	Rm	290
45	MAT-00046	Hume pipe with collar 300 mm dia	Rm	598
46	MAT-00047	J- Bolts 30 cm long	Each	45
47	MAT-00048	Jungle wood planks	Cum	20,863
48	MAT-00049	Khandki stone 15 to 20 cm height	Each	15
49	MAT-00050	Khandki stone 20 to 25 cm height	Each	21
50	MAT-00051	Khandki stone 25 to 30 cm height	Each	22
51	MAT-00052	Kilometer stone one line dressed	Each	574
52	MAT-00053	LDPE sheet (Geo membrane) 500 micron thick	Sqm	102
53	MAT-00054	LDPE sheet (Geo membrane) 750 micron thick	Sqm	145
54	MAT-00055	LDPE sheet (Geo membrane) 1000 micron thick	Sqm	201
55	MAT-00056	M S Bolts / Nuts / Washers	Kg	93
56	MAT-00057	Murrum	Cum	229
57	MAT-00058	Oxalic acid	Ltr	80
58	MAT-00059	Oxygen gas	Cum	46
59	MAT-00060	PVC sealing strip	Rm	48

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2022-23
1	2	3	4	5
60	MAT-00061	PVC water stopper 310 mm wide	Rm	495
61	MAT-00062	PVC pipe of 100 mm dia	Rm	176
62	MAT-00063	Reinforcement steel (HYSD/TMT) Note: As per Monthly rate fixed by Sub-Committee	tonne	62,000
63	MAT-00064	Resin bond Cement capsule	Each	52
64	MAT-00065	Rough stone 20 x 20 x 75 cm	Each	29
65	MAT-00066	Shahabad stone slab	Sqm	283
66	MAT-00067	Stone chips (at dump yard/Spoil)	Cum	223
67	MAT-00068	Stone chips (at quarry)	Cum	435
68	MAT-00069	Structural steel angle / channel / beam / bars Note: As per Monthly rate fixed by Sub-Committee, May 2022	Tonne	64,500
69	MAT-00070	a)Structural steel plate Note: As per Monthly rate fixed by Sub-Committee, May 2022	Tonne	82,000
		b)Structural steel flats Note: As per Monthly rate fixed by Sub-Committee, May 2022	Tonne	62,500
70	MAT-00071	Super Plasticizer (Conplast RP-264 or equivalent)	Kg	59
71	MAT-00072	Synthetic Enamel paint 1st quality	Ltr	253
72	MAT-00073	Synthetic adhesive (Resin + Hardener)	Kg	357
73	MAT-00074	Tar felt joint filler board 12 mm thick	Sqm	408
74	MAT-00075	Tar felt joint filler board 20 mm thick	Sqm	629
75	MAT-00076	Through stones 20 x 20 x 30 to 45 cm	Each	27
76	MAT-00077	Through stones 25 x 25 x 45 to 60 cm long	Each	47
77	MAT-00078	Through stones 30 x 30 x 65 to 75 cm long	Each	69
78	MAT-00079	Un-coursed rubble stones (at dump yard /Spoil)	Cum	193
79	MAT-00080	Un-coursed rubble stones (at quarry)	Cum	373
80	MAT-00081	Water proofing compound	Kg	85

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2022-23
1	2	3	4	5
81	MAT-00082	Welding electrodes 4 mm dia	Each	16
82	MAT-00083	Wire brush	Each	46
83	MAT-00084	Wire mesh 20 gauge	sqm	248
84	MAT-00085	Zinc chromate red oxide primer paint	Ltr	184
85	MAT-00086	inorganic zinc silicate	Ltr	616
86	MAT-00087	solvent less coal tar epoxy paint	Ltr	298
87	MAT-00088	Zinc phosphate primer	Ltr	228
88	MAT-00089	Allkyd based iron oxide paint	Ltr	163
89	MAT-00090	a) Cost of hdpe (90mm dia)	Rm	233
	MAT-00091	b) light black MS casing pipe 100 mm dia (4mm thick)	Rm	512
90	MAT-00092	welded steel wire fabric 100X100X5 mm size	Kg	207
91	MAT-00093	Protective Mastic	Ltr	513
92	MAT-00094	Solventless coal tar epoxy (brown)	Ltr	317

**ADDITIONAL MATERIALS FOR GATES & HOISTS
FOR THE YEAR: 2022-23**

GUIDE LINES:

- a) For cast steel / Alloy steel / Forged steel / Bronze, aluminum alloy components the rates shall be inclusive of cost of basic metal for these components, casting / forging charges, machining charges and applicable excise duty on finished alloy component.
- b) For other materials the rates shall be of prevailing market rates.

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2022-23
1	2	3	4	5
1	MAT-00108	Alloy steel (IS : 1570-carbon steel) shafts	Kg	256
2	MAT-00109	Alloy steel (IS : 1570-stainless steel) pins	Kg	469
3	MAT-00110	Bolt / Nut / Washer (hot dipped galvanized)	Kg	153
4	MAT-00111	Bolt / Nut / Washer (stainless steel)	Kg	399
5	MAT-00112	Bronze/Aluminum alloy(IS:305)bearings/bushes	Kg	1,064
6	MAT-00113	Cast iron blocks	Kg	94
7	MAT-00114	Cast steel drums / gears	Kg	254
8	MAT-00115	Cast steel pinions	Kg	246
9	MAT-00116	Cast steel wheels / pulleys / hubs / rollers / Retainers	Kg	211
10	MAT-00117	Chemical for de-greasing/ de-rusting/phosphate Coating	Ltr	141
11	MAT-00118	Coal tar epoxy paint	Ltr	211
12	MAT-00119	Forged steel hooks / shackles	Kg	299
13	MAT-00120	MS pipe 200 / 300 mm dia	Kg	188
14	MAT-00121	MS pipe 32 mm dia	Rm	198
15	MAT-00122	MS pipe 25 mm dia	Rm	165
16	MAT-00123	Rubber bottom seal (IS : 11855) (100mmX14 mm)	Rm	706
17	MAT-00124	Rubber side seal (music note type Teflon claded) (IS : 11855) (36ØX113mmX14mm)	Rm	1,529
18	MAT-00125	Rubber side seal (music note type uncladed) (IS : 11855) (36ØX113mmX14mm)	Rm	1,131

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2022-23
1	2	3	4	5
19	MAT-00126	Rubber side seal Z-type (IS : 11855) (36ØX120mmX19mm)	Rm	1,448
20	MAT-00127	Rubber corner seal (Teflon claded) (IS : 11855) (36Ø)	Each	1,571
21	MAT-00128	Rubber corner seal (un claded) (IS : 11855) (36Ø)	Each	1,199
22	MAT-00129	Stainless steel plates / flats	Kg	309
23	MAT-00130	Welding electrode 4 mm dia x 450 mm (radiographic low hydrogen)	Each	21
24	MAT-00131	Welding electrode 4 mm dia x 450 mm (stainless steel)	Each	26
25	MAT-00132	Wire rope 6x37 constn (IS : 2266)	Kg	215
26	MAT-00133	Zinc	Kg	206
27	MAT-00134	Zinc rich (zinc content : 90 %) epoxy primer	Ltr	667

**MATERIALS FOR POWER SUPPLY WORKS
FOR THE YEAR: 2022-23**

Sl No.	CFMS CODE	Description of Material	Unit	S. Rate for 2022-23
1	MAT-00135	Electric pole with fixtures	Each	For establishing Electrical Sub-Stations at the Project Sites wherever necessary, the rates approved by APTRANSCO may be followed.
2	MAT-00136	Flood light 500 W	Each	
3	MAT-00137	Flood light set	Each	
4	MAT-00138	Flousscent tube light 40 W	Each	
5	MAT-00139	Flousscent tube light set	Each	
6	MAT-00140	HT / LT Circuit breaker with accessories	Set	
7	MAT-00141	HT / LT Line conductor	1000 m	
8	MAT-00142	PVC Armoured cable 10 sqmm and below	Rm	
9	MAT-00143	PVC Armoured cable 16 sqmm	Rm	
10	MAT-00144	PVC Armoured cable 25 sqmm	Rm	
11	MAT-00145	PVC Armoured cable 70 sqmm	Rm	

DETAILS OF CAPITAL COST OF MACHINERY / EQUIPMENT FOR THE
YEAR: 2022-23
GUIDE LINES FOR FIXING CAPITAL COST OF MACHINERY / EQUIPMENT:

1. The Capital cost of machinery / equipment shall be for new machinery / equipment and shall be exclusive of GST, duties and other levies.
2. The cost of transport vehicles / equipment shall be exclusive of cost of tyres and tubes.
3. The cost of drill rods / drill bits / air hose / water hose / road tax / insurance charges and Other consumable accessories shall not be included in the capital cost.
4. In cases, where the current capital cost of machinery/ equipment could not be collected through enquiries, the capital cost considered for previous year may be updated on the basis of average percentage increase / decrease in the index for machinery published in the R.B.I Bulletin.

Sl No:	CFMS CODE	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2022-23
1	2	3	4	5
1	MAT-00600	Agitator car / Transit mixer 2 cum (excluding tyres)	Each	21,25,574
	MAT-00601	tyres and tubes 6 sets		81,897
2	MAT-00602	Air compressor 5 cmm electric	Each	6,67,122
3	MAT-00603	Air compressor 7 cmm diesel	Each	8,91,675
4	MAT-00604	Air compressor 7 cmm electric	Each	8,35,947
5	MAT-00605	Air compressor 8.5 cmm diesel	Each	10,40,232
6	MAT-00606	Air compressor 8.5 cmm electric	Each	10,74,033
7	MAT-00607	Air compressor 15 cmm electric	Each	13,13,627
8	MAT-00608	Angle Dozer 90 hp	Each	54,25,452
9	MAT-00609	Batching plant 0.5 cum with accessories (6 Cum/hr)	Each	11,98,939
10	MAT-00610	Batching plant 2 x 1.00 cum with accessories (15 Cum/hr)	Each	42,41,218
11	MAT-00611	Batching plant 2 x 1.50 cum with accessories (50 Cum/hr)	Each	64,94,474
12	MAT-00612	Bending machine	Each	5,50,722
13	MAT-00613	Clam shell and hoisting ropes	Each	31,403
14	MAT-00614	Concrete bucket 1.5 cum	Each	55,065
15	MAT-00615	Concrete hand mixer 45/30 ltr	Each	15,651
16	MAT-00616	Concrete mixer 300/200 ltr(diesel)	Each	1,47,030
17	MAT-00617	Concrete mixer 300/200 ltr (electric)	Each	1,43,020
18	MAT-00618	Concrete mixer 600/400 ltr(diesel)	Each	2,49,187
19	MAT-00619	Concrete mixer 600/400 ltr (electric)	Each	2,44,102

Sl No:	CFMS CODE	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2022-23
1	2	3	4	5
20	MAT-00620	Concrete paver 100 Sqm / hr	Each	23,45,010
21	MAT-00621	Convey mucker (excluding tyres)	Each	37,96,355
	MAT-00601	tyres and tubes 6 sets		81,897
22	MAT-00622	Core drilling machine	Each	10,87,512
23	MAT-00623	Diesel generating set 30 KVA	Each	4,93,569
24	MAT-00624	Diesel generating set 50 KVA	Each	6,16,540
25	MAT-00625	Diesel Loco 45 hp	Each	20,95,941
26	MAT-00626	Dewatering pump 5 hp diesel	Each	39,767
27	MAT-00627	Dewatering pump 5 hp electric	Each	24,678
28	MAT-00628	Dewatering pump 10 hp diesel	Each	60,056
29	MAT-00629	Dewatering pump 10 hp electric	Each	54,952
30	MAT-00630	Dewatering pump 20 hp diesel	Each	1,90,055
31	MAT-00631	Dewatering pump 20 hp electric	Each	1,03,061
32	MAT-00632	Drifter	Each	10,48,289
33	MAT-00633	Drilling jumbo (excluding tyres)	Each	13,20,928
	MAT-08524	tyres and tubes 6 sets		81,897
34	MAT-00634	Dumper 4.5 cum (excluding tyres)	Each	14,70,234
	MAT-00601	tyres and tubes 6 sets		81,897
35	MAT-00635	Geophysical Ele.resistivity meter	Each	5,06,963
36	MAT-00636	Grouting pump	Each	97,064
37	MAT-00637	Guniting / sand blasting equipment	Each	3,04,944
38	MAT-00638	Ice plant with accessories 30 t / day	Each	25,30,002
39	MAT-00639	Jack hammer	Each	63,850
40	MAT-00640	Needle vibrator 40 mm petrol	Each	19,777
41	MAT-00641	Needle vibrator 40 mm electric	Each	20,738
42	MAT-00642	Needle vibrator 60 mm petrol	Each	20,568
43	MAT-00643	Needle vibrator 60 mm electric	Each	25,371
44	MAT-00644	Planing machine 4 m stroke	Each	8,38,962
45	MAT-00645	Plate shearing machine up to 12 mm	Each	4,57,129
46	MAT-00646	Pneumatic placer 0.5 cum	Each	5,72,090
47	MAT-00647	Pneumatic tamper	Each	84,192

Sl No:	CFMS CODE	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2022-23
1	2	3	4	5
48	MAT-00648	Pug cutting machine	Each	17,906
49	MAT-00649	Pusher leg	Each	54,584
50	MAT-00650	Road roller diesel 10 t	Each	8,62,359
51	MAT-00651	Shovel 0.50 cum 75 hp	Each	38,20,509
52	MAT-00652	Shovel 0.85 cum 110 hp	Each	63,82,483
53	MAT-00653	Stationery derrick crane 5 t	Each	6,47,090
54	MAT-00654	Tipper 5 cum (excluding tyres)	Each	16,55,750
	MAT-00601	tyres and tubes 6 sets		81,897
55	MAT-00655	Tipping tub 1.5 cum	Each	2,40,093
56	MAT-00656	Tower crane 5 tonne	Each	73,72,995
57	MAT-00657	Transformer 250 KVA	Each	4,92,181
58	MAT-00658	Truck 10 t (excluding tyres)	Each	14,61,655
	MAT-00601	tyres and tubes 6 sets		81,897
59	MAT-00659	Truck mounted derrick crane 5 t (excluding tyres)	Each	20,17,167
	MAT-00601	tyres and tubes 6 sets		81,897
60	MAT-00660	Upright drilling machine	Each	56,138
61	MAT-00661	Ventilation fan 20 hp	Each	2,88,485
62	MAT-00662	Vibratory pad foot roller 8 t	Each	29,92,884
63	MAT-00663	Wagon drill	Each	6,54,864
64	MAT-00664	Water tanker 8000 ltr (excluding tyres)	Each	15,23,136
	MAT-00601	tyres and tubes 6 sets		81,897
65	MAT-00665	Welding set	Each	50,833
66	MAT-00666	Winch 35 hp electric	Each	3,98,999
67	MAT-00667	Hydraulic Truck Crane 30T	Each	1,51,48,035
	MAT-08525	tyres and tubes 6 sets		1,80,761
68	MAT-00668	Hydraulic Truck Crane 16T	Each	1,04,49,868
	MAT-08526	tyres and tubes 6 sets		1,74,362
69	MAT-00669	Heavy Duty Airless Spray Painting Equipment	Each	4,85,219
70	MAT-00670	Concrete Placer Pump(25 Cum/hr)(Electric)	Each	31,64,471

ACCESSORIES TO MACHINERY / EQUIPMENT FOR THE YEAR: 2022-23

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2022-23
1	2	3	4	5
1	MAT-00671	Casing shoe bit	Each	11,641
2	MAT-00672	Diamond core bit BX size	Each	11,876
3	MAT-00673	Diamond core bit NX size	Each	14,257
4	MAT-00674	Double tube core barrel	Each	15,200
5	MAT-00675	Extension drill rod with coupling sleeve	Rm	2,158
6	MAT-00676	Jack hammer drill rod 1.5 m	Each	4,253
7	MAT-00677	Jack hammer drill rod 2.5 m	Each	6,366
8	MAT-00678	Nozzle for Guniting / sand blasting gun	Each	708
9	MAT-00679	Paving Cylinder	Each	31,163
10	MAT-00680	Rails 30R (30 kg / m)	tonne	57,710
11	MAT-00681	Reamer shell	Each	5,712
12	MAT-00682	T.C. Cross bit 50 mm dia	Each	5,603
13	MAT-00683	T.C. Cross bit 75 mm dia	Each	11,205
14	MAT-00684	T.C. Cross bit 100 mm dia	Each	13,189
15	MAT-00685	Tyres and Tubes for truck	Set	16,078
16	MAT-00686	Wire rope 16 mm dia	Rm	306

AGGREGATE CRUSHING & PROCESSING PLANT

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2022-23
1	2	3	4	5
1		Jaw crusher 900 x 500 mm (120 tph) with 50 hp Motor	Each	These items are no where being used in the Standard Data. Hence this may be deleted from SoR
2		Jaw crusher 500 x 300 mm (60 tph) with 30 hp Motor	Each	
3		Jaw crusher 400 x 225 mm (10 tph) with 25 hp Motor	Each	
4		Jaw plates 900 x 500 mm (serreted)	Set	
5		Jaw plates 500 x 300 mm (serreted)	Set	
6		Jaw plates 400 x 225 mm (serreted)	Set	
7		Nylon Conveyor belt 3 ply 600 mm width	Rm	
8		Nylon Conveyor belt 3 ply 1000 mm width	Rm	

OTHER COSTS ON MATERIAL / MACHINERY / EQUIPMENT
FOR THE YEAR: 2022-23

1. The rate provided for ' SUNDRIES' (Lump sum provision for unquantified inputs in the data rates) shall be updated on the basis of general percentage increase / decrease in the market rates or on the basis of R.B.I ' All Commodity' index.
2. The rate for structural steel fabrication shall include cost of all materials (except structural steel), machinery, labour and one coat of primer painting.
3. Demand charges and electric power charges shall be as per prevailing APEPDCL tariff.
4. Rate of interest on capital cost shall be as approved by Govt or other competent authority.

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2022-23
1	2	3	4	5
1	MAT-00688	Air hose 25 mm dia	Rm	189
2	MAT-00689	Air hose 50 mm dia	Rm	284
3	MAT-00690	Demand charges (HT-I : General-11 KV category) on power supply(as per APEPDCL tariff)	KVA / month	475
4	MAT-00691	Diesel	Ltr	99.74
5	MAT-00692	Electric power (HT-VIII Category) including tax (1.5 times of the Tariff of HT-I(A):General-11 KVA Category) (as per APEPDCL tariff)	Kwhr	9.45
6	MAT-00693	Excise duty on Gates / Hoist supplies	%	0

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2022-23
1	2	3	4	5
7	MAT-00694	Insurance charges on machinery	% / annum	1
8	MAT-00695	Interest on capital cost	% / annum	9
9	MAT-00696	Lubricants	Ltr	267
10	MAT-00697	Petrol	Ltr	112.01
11	MAT-00698	Rivets	Kg	103
12	MAT-00699	Road tax on transport vehicles	Rs./annum	As per RTA
13	MAT-00700	Shalimatic sealing compound	Kg	100
14	MAT-00701	Shutter oil	Ltr	58
15	MAT-00702	Structural steel fabrication	Kg	34
16	MAT-00703	Sundries (Lump sum for un quantified inputs)	LS	38
17	MAT-00704	Water hose (pressure) 20 mm dia	Rm	190
18	MAT-00705	Steel wedges	LS	19
19	MAT-00706	Elbows / Nipple / Plugs etc.,	LS	19
20	MAT-00707	Soldering materials	LS	19
21	MAT-00708	Steam circulation arrangement	LS	19
22	MAT-00709	Fuel charges (gas for heating)	LS	24
23	MAT-00710	Vulcanizing materials	LS	24
24	MAT-08527	Other accessories / controls / junctions	LS	24
25		Miscellaneous fittings / switches etc	LS	Deleted
26		Anchors / supports for cables / lights	LS	Deleted
27		Civil works for foundations / pedestals / duct etc	LS	Deleted
28	MAT-00711	Gas cutting set (2 No's 15 m hose and nozzle unit)	Each	14,947
29	MAT-00712	Grease	Kg	282
30	MAT-00713	Welding holder set (cable / holder / gloves / mask etc)	Each	8,412
31	MAT-00385	Use rate of ropes	LS	186

MATERIALS FOR GATES AND HOISTS FOR THE YEAR: 2022-23

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2022-23
1	2	3	4	5
1	MAT-00095	Worm reducers	Each	2,02,620
2	MAT-00096	Electric motor 20 hp(Double Shaft)	Each	1,15,312
3	MAT-00097	Electric motor 17.5 hp(Double Shaft)	Each	77,599
4	MAT-00098	Electric motor 12.5 hp(Double Shaft)	Each	65,545
5	MAT-00099	Electric motor 5 hp(Double Shaft)	Each	29,740
6	MAT-00100	Electric motor 3 hp (Double Shaft)	Each	20,672
7	MAT-00101	Electric motor 2 hp (Double Shaft)	Each	11,668
8	MAT-00102	Floating shaft 300 mm dia	Kg	194
9	MAT-00103	Manual operating system	Each	30,614
10	MAT-00104	Gate position indicator	Each	1,98,141
11	MAT-00105	Ele-magnetic brake	Each	31,926
12	MAT-00106	Electric cable / switch / control panel etc	LS	51,923
13	MAT-00107	Wire rope sockets	Each	5,014

**Materials other than covered under WR work items
for the year 2022-23**

GENERAL GUIDE LINES FOR REVISING RATES OF MATERIALS:

1. Average of the prevailing market rates, ignoring freak rates, is the criteria for Fixing market rates for materials.
2. The rates for materials is **exclusive of** GST, duties and other local levies.
3. The rates for materials are **exclusive of** Seigniorage charges wherever applicable.
4. The rates for materials, except those for which lead charges are admissible as per the Statement of lead charges is for all leads.

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-002	MAT-00175	Quarried stone 150 - 200 mm size for Hand Broken	Cum	178
M-003	MAT-00176	Boulder with minimum size of 300 mm for Pitching	Cum	195
M-004		Coarse sand for filling	Cum	Rate as per item no.27 (b) of Material rates of WRD.
M-005		Coarse sand for mortar	Cum	Rate as per item no.27 (a) of Material rates of WRD.
M-006		Fine Sand	Cum	Rate as per item no.28 of Material rates of WRD.
M-007		Murum	Cum	Rate as per item no.56 of Material rates of WRD.
M-008	MAT-00177	Gravel/Quarry spall	Cum	149
M-009		Granular Material or hard Murum for GSB works	Cum	Deleted
M-010	MAT-00178	Granular Material or hard Murum for GSB works	Cum	109
M-011	MAT-00179	Fly ash conforming to IS: 3812 (Part II & I)	Cum	81
		For item No.M-012 to M-055 the note shall be as follows 1. The rates mentioned are exclusive of Seigniorage charges but inclusive of blasting charges of Rs.70/cum and 25% machine crushing charges. However, if the metal is obtained by hand broken, machine crushing charges shall be deducted. 2. If the material is obtained by hand broken from surface boulders/canal spoil, the blasting and crushing charges shall be deducted. 3. The material shall be HB Stone of Granite, Dolomite, Dolerite and Trap.(Quartzite and Basalt with aggregate impact of less than 20)		

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-012	MAT-00180	Filter media/Filter Material as per Table 300-3 (MoRT&H Specification)	Cum	379
M-013	MAT-00181	Close graded Granular sub-base Material 53 mm to 9.5 mm	Cum	740
M-014	MAT-00182	Close graded Granular sub-base Material 37.5 mm to 9.5 mm	Cum	764
M-015	MAT-00183	Close graded Granular sub-base Material 26.5 mm to 9.5 mm	Cum	812
M-016	MAT-00184	Close graded Granular sub-base Material 9.5 mm to 4.75 mm	Cum	674
M-017	MAT-00185	Close graded Granular sub-base Material 9.5 mm to 2.36 mm	Cum	650
M-018	MAT-00186	Close graded Granular sub-base Material 4.75mm to 2.36 mm	Cum	576
M-019	MAT-00187	Close graded Granular sub-base Material 4.75mm to 75 micron mm.	Cum	552
M-020	MAT-00188	Close graded Granular sub-base Material 2.36 mm	Cum	549
M-021	MAT-00189	Stone crusher dust finer than 3mm with not more than 10% passing 0.075 sieve.	Cum	395
M-022	MAT-00191	Coarse graded Granular sub-base Material 2.36 mm & below	Cum	547
M-023	MAT-00192	Coarse graded Granular sub-base Material 4.75mm to 75 micron mm	Cum	532
M-024	MAT-00193	Coarse graded Granular sub-base Material 4.75 mm to 2.36 mm	Cum	532
M-025	MAT-00194	Coarse graded Granular sub-base Material 9.5 mm to 4.75 mm	Cum	654
M-026	MAT-00195	Coarse graded Granular sub-base Material 26.5 mm to 4.75 mm	Cum	713
M-027	MAT-00196	Coarse graded Granular sub-base Material 26.5 mm to 9.5 mm	Cum	716
M-028	MAT-00197	Coarse graded Granular sub-base Material 37.5 mm to 9.5 mm	Cum	795
M-029	MAT-00198	Coarse graded Granular sub-base Material 53 mm to 26.5mm	Cum	978
M-030	MAT-00199	Aggregates below 5.6 mm	Cum	638
M-031	MAT-00200	Aggregates 22.4 mm to 2.36 mm	Cum	1,046

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-032	MAT-00201	Aggregates 22.4 mm to 5.6 mm	Cum	1,187
M-033	MAT-00202	Aggregates 45 mm to 2.8 mm	Cum	762
M-034		Aggregates 45 mm to 22.4 mm	Cum	Rate as per item no.9 of Material rates of WRD.
M-035	MAT-00203	Aggregates 53 mm to 2.8 mm	Cum	1,048
M-036	MAT-00204	Aggregates 53 mm to 22.4 mm	Cum	993
M-037	MAT-00205	Aggregates 63 mm to 2.8 mm	Cum	820
M-038	MAT-00206	Aggregates 63 mm to 45 mm	Cum	761
M-039		Aggregates 90 mm to 45 mm	Cum	Rate as per item no.10 of Material rates of WRD.
M-040		Aggregates 10 mm to 5 mm	Cum	Rate as per item no.07 of Material rates of WRD.
M-041	MAT-00207	Aggregates 11.2 mm to 0.09 mm	Cum	822
M-042	MAT-00208	Aggregates 13.2 mm to 0.09 mm	Cum	931
M-043	MAT-00209	Aggregates 13.2 mm to 5.6 mm	Cum	1,067
M-044	MAT-00210	Aggregates 13.2 mm to 10 mm	Cum	1,187
M-045		Aggregates 20 mm to 10 mm	Cum	Rate as per item no.08 of Material rates of WRD.
M-046	MAT-00211	Aggregates 25 mm to 10 mm	Cum	1,297
M-047	MAT-00212	Aggregates 19 mm to 6 mm	Cum	1,193
M-048	MAT-00213	Aggregates 37.5 mm to 19 mm	Cum	1,285
M-049	MAT-00214	Aggregates 37.5 mm to 25 mm	Cum	1,336
M-050	MAT-00215	Aggregates 6 mm nominal size	Cum	865
M-051	MAT-00216	Aggregates 10 mm nominal size	Cum	1,070
M-052	MAT-00217	Aggregates 13.2/12.5 mm nominal size	Cum	1,260

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-053	MAT-00218	Aggregates 20 mm nominal size	Cum	1,565
M-054	MAT-00219	Aggregates 25 mm nominal size	Cum	1,501
M-055	MAT-00220	Aggregates 40 mm nominal size	Cum	965
M-056		AC pipe 100 mm dia	Metre	Rate as per PH item
M-057	MAT-00221	Acrylic polymer bonding coat	Litre	556
M-058	MAT-00222	Aluminum Paint	Litre	308
M-059	MAT-00223	Aluminum alloy plate 2mm Thick	Sqm	401
M-060	MAT-00224	Aluminum alloy/Galvanized steel	Tonne	70,799
M-061	MAT-00225	Aluminum sheeting fixed with encapsulated lens type reflective sheeting including 2% towards lettering, cost of angle iron, cost of drilling holes, nuts, bolts etc. and signs as applicable	Sqm	930
M-062	MAT-00226	Aluminum studs 100 x 100 mm fitted with lens reflectors	No's	As per local market Rate
M-063	MAT-00227	Barbed wire	Kg	83
M-064	MAT-00228	Bearing (Cost of parts)	No's	573
M-065	MAT-00229	Bearing (Cast steel rocker bearing assembly of 250 tonne)	No's	798
M-066	MAT-00230	Bearing (Elastomeric bearing assembly consisting of 7 internal layers of elastomer bonded to 6 nos. internal reinforcing steel laminates by the process of vulcanization,)	Cm ³	As per Market competitive rates.
M-067	MAT-00231	Bearing (Forged steel roller bearing of 250 tonne)	No's	
M-068	MAT-00232	Bearing (Pot type bearing assembly consisting of a metal piston supported by a disc, PTFE pads providing sliding surfaces against stainless steel mating together with cast steel assemblies/fabricated structural steel assemblies duly painted with all components	No's	
M-069	MAT-00233	Bearing (PTFE sliding plate bearing assembly of 80 tonnes)	No's	
M-070	MAT-00234	Bearing (Supply of sliding plate bearing of 80 tonne)	No's	
M-071	MAT-00235	Bentonite	Kg	9

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-072		Binding wire	Kg	Rate as per item no.3 of Material rates of WRD.
M-073	MAT-00236	Bitumen (Cationic Emulsion)	Tonne	As per rates fixed by R&B Dept based on refinery rates
M-074	MAT-00237	Bitumen (60-70 grade)	Tonne	
M-075	MAT-00238	Bitumen (80-100 grade)	Tonne	
M-076	MAT-00239	Bitumen (Cutback)	Tonne	
M-077	MAT-00240	Bitumen (emulsion)	Tonne	
M-078	MAT-00241	Bitumen (modified graded)	Tonne	
M-079		Brick	Each	As per Building SSR
M-080	MAT-00242	C.I. shoes for the pile	Kg	63
M-081		Cement	Tonne	Rate as per item no.5 of Material rates of WRD.
M-082		Cold twisted bars (HYSD/TMT Bars)	Tonne	Rate as per item no.62 of Material rates of WRD
M-083	MAT-00243	Collar for joints 300 mm dia	No's	159
M-084	MAT-00244	Compressible Fibre Board(20mm thick)	Sqm	575
M-085	MAT-00245	Connectors/ Staples	Each	80
M-086	MAT-00246	Copper Plate(12m long x 250mmwide)	Kg	308
M-087	MAT-00247	Corrosion resistant Structural steel	Tonne	Monthly Rate as fixed by the Sub-Committee
M-088	MAT-00248	Corrugated sheet, 3 mm thick, "Tie" beam section railing	Kg	218
M-089	MAT-00249	Credit for excavated rock found suitable for use	Cum	239
M-090	MAT-00250	Curing compound	Liter	Rate as per item no.15 of Material rates of WRD.
M-091	MAT-00251	Delineators from ISI certified firm as per the standard drawing given in IRC – 79	Each	Rate as per local competitive quotations

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-092	MAT-00252	Earth Cost or compensation for selected earth for shoulders taken from Private Land	Cum	130
M-093	MAT-00253	Elastomeric slab seal expansion joint assembly manufactured by using chloroprene, elastomer for elastomeric slab unit conforming to clause 915.1 of IRC: 83 (part II),	Metre	As per local competitive quotations
M-094		Electric Detonators @ 1 detonator for 1/2 gelatin stick of 125 gms each	100 no's	Rate as per item no.21 of Material rates of WRD.
M-095	MAT-00254	Epoxy compound with accessories for preparing epoxy mortar	Kg	362
M-096	MAT-00255	Epoxy mortar	Kg	120
M-097	MAT-00256	Epoxy primer	Kg	603
M-098	MAT-00257	Epoxy resin-hardener mix for prime coat	Kg	646
M-099	MAT-00258	Flag of red color cloth 600 x 600 mm	Each	26
M-100	MAT-00259	Flowering Plants	Each	49
M-101	MAT-00260	Galvanized MS flat clamp	No's	194
M-102	MAT-00261	Galvanized steel wire crates of mesh size 100 mm x 100 mm woven with 4mm dia. GI wire in rolls of required size.	Sqm	188
M-103	MAT-00263	Galvanized structural steel plate 200 mm wide, 6 mm thick, 24 m long	Kg	962
M-104	MAT-00264	Gelatin 80%	Kg	68
M-105	MAT-00265	Geo grids	Sqm	Rate as per local competitive quotations
M-106		(a)Geo membrane 500 micron thick	Sqm	Rate as per item No. 52 of WRD
		(b) Geo membrane 750 micron thick	Sqm	Rate as per item No. 53 of WRD
		(c) Geo membrane 1000 micron thick	Sqm	Rate as per item No. 54 of WRD

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-107	MAT-00266	Geo nets	Sqm	Rate as per local competitive quotations
M-108		(a)Geo textile 160 gsm	Sqm	Rate as per item No. 29 of WRD
		(b) Geo textile 200 gsm	Sqm	Rate as per item No. 30 of WRD
		(c) Geo textile 250 gsm	Sqm	Rate as per item No. 31 of WRD
M-109	MAT-00267	Geo textile filter fabric	Sqm	Rate as per local competitive quotations
M-110	MAT-00268	GI bolt 10 mm Dia	No's	23
M-111		Grouting pump with agitator	Hour	Rate covered in Item No.36 of hire charges Of machinery of Water Resources work items
M-112	MAT-00269	Grass (Doob)	Kg	8
M-113	MAT-00270	Grass (Fine)	Kg	10
M-114		HDPE pipes 75mm dia	Metre	Rate as per PH items
M-115		HDPE pipes 90mm dia	Metre	
M-116	MAT-00271	Hedge plants	Each	Rate as per local competitive quotations
M-117	MAT-00272	Helical pipes 600mm diameter	Metre	
M-118	MAT-00273	Hot applied thermoplastic compound	Litre	
M-119	MAT-00274	HTS strand	Tonne	42,632
M-120	MAT-00275	Joint Sealant Compound	Kg	70
M-121	MAT-00276	Jute netting, open weave, 2.5 cm square opening for seeding and Mulching	Sqm	94

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-122	MAT-00277	LDO for steam curing	Litre	70
M-123		M.S. Clamps	Kg	Deleted
M-124	MAT-00278	M.S. Clamps	Kg	Rate as per local market rate
M-125	MAT-00279	M.S. shoes @ 35 Kg per pile of 15 m	Kg	
M-126	MAT-00280	Mild Steel bars	Tonne	54,500
M-127	MAT-00281	Modular strip/box seal expansion joint including anchorage catering to a horizontal movement beyond 70 mm and up to 140mm assembly comprising of edge beams, central beam, 2 modules chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer or his authorized representative	Metre	Rate as per local competitive quotations
M-128	MAT-00282	Modular strip/box seal expansion joint catering to a horizontal movement beyond 140mm and up to 210mm box/box seal joint assembly containing 3 modules/cells and comprising of edge beams, two central beams, chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer or his authorized representative	Metre	Rate as per local competitive quotations
M-129	MAT-00283	Nipples 12mm	No's	23
M-130	MAT-00284	Nuts and bolts	Kg	112
M-131	MAT-00285	Paint	Litre	260
M-132	MAT-00286	Pavement Marking Paint	Litre	Rate as per local competitive quotations
M-133	MAT-00287	Paving Fabric	Sqm	
M-134	MAT-00288	Perforated geo synthetic pipe 150 mm dia	Metre	
M-135	MAT-00290	Perforated pipe of cement concrete, internal dia 100 mm	Metre	
M-136	MAT-00291	Pesticide	Kg	
M-137		R.C.C Pipes 200 mm dia, 2.5 m long for drainage	Metre	Rate as per PH item

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-138	MAT-00292	Plastic sheath, 1.25 mm thick for dowel bars	Sqm	57
M-139	MAT-00293	Plastic tubes 50 cm dia , 1.2 m high	No's	Rate as per local market rate
M-140	MAT-00294	Polymer braids	Metre	
M-141	MAT-00295	Pre moulded Joint filler, 25 mm thick for expansion joint.	Sqm	320
M-142	MAT-00296	Pre-coated stone chips of 13.2 mm nominal size	Cum	Rate as per local competitive quotations
M-143	MAT-00297	Preformed continuous chloroprene elastomer or closed cell foam sealing element with high tear strength, vulcanized in a single operation for the full length of a joint to ensure water tightness.	Metre	
M-144	MAT-00298	Pre-moulded asphalt filler board	Sqm	
M-145	MAT-00299	Pre-packed cement based polymer concrete of strength 45 Mpa at 28 days	Kg	
M-146	MAT-00300	Sealant Primer	Kg	183
M-147	MAT-00301	Quick setting compound	Kg	35
M-148	MAT-00302	Random Rubble Stone	Cum	298
M-149		RCC Pipe NP 4 heavy duty non pressure pipe 1000 mm dia	Metre	Rate as per PH items
M-150		RCC Pipe NP 4 heavy duty non pressure pipe 1200 mm dia	Metre	
M-151		RCC Pipe NP 4 heavy duty non pressure pipe 300 mm dia	Metre	
M-152	MAT-00303	Reflectorising glass beads	Kg	Rate as per local competitive quotations
M-153	MAT-00304	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Copper Strips)	Metre	
M-154	MAT-00305	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Galvanized carbon steel strips)	Metre	
M-155	MAT-00306	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Glass reinforced polymer/ fiber reinforced polymer/polymeric strips)	Metre	
M-156	MAT-00307	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Stainless steel strips)	Metre	
M-157	MAT-00308	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Aluminum strips)	Metre	

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-158	MAT-00309	Rivets	Each	8
M-159		Sand bags (Cost of sand and Empty cement bag)	Per bag	Rate as per Item no.2 of miscellaneous items
M-160	MAT-00310	Sapling 2 m high 25 mm dia	Each	Rate as per local competitive quotations
M-161	MAT-00311	Scrap tyres of size 900 x 20	No's	82
M-162	MAT-00312	Seeds(Grass)	Kg	22
M-163		Cost of Selected earth	Cum	Deleted
M-164	MAT-00313	Separation Membrane of impermeable plastic sheeting 125 micron thick	Sqm	Rate as per local competitive quotations
M-165	MAT-00314	Sheathing duct	Metre	
M-166	MAT-00315	Shrubs	Each	19
M-167	MAT-00316	Sludge / Farm yard manure @ 0.18 cum per 100 sqm at site of work for turfing	Cum	Rate as per local competitive quotations
M-168		Sodium vapour lamp	Each	As per Buildings SSR
M-169	MAT-00317	Square Rubble Coursed Stone	Cum	2,679
M-170	MAT-00318	Steel circular hollow pole of standard specification for street lighting to mount light at 5 m height above deck level	Each	Rate Obtained from Electricity/Municipal Departments
M-171	MAT-00319	Steel circular hollow pole of standard specification for street lighting to mount light at 9 m height above road level	Each	
M-172	MAT-00320	Steel drum 300 mm dia 1.2 m high/empty bitumen drum	No's	As per local competitive market rate
M-173	MAT-00321	Steel helmet and cushion block on top of pile head during driving.	Kg	
M-174	MAT-00322	Steel pipe 25 mm external dia as per IS:1239	Metre	318
M-175	MAT-00323	Steel pipe 50 mm external dia as per IS:1239	Metre	625
M-176	MAT-00324	Steel wire rope 20 mm	Kg	213
M-177	MAT-00325	Steel wire rope 40 mm	Kg	236

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-178	MAT-00326	Strip seal expansion joint	Metre	Rate as per local competitive quotations
M-179		Structural Steel(HYSD/TMT bars)	Tonne	Rate as per item no.62 of Material rates of WRD
M-180		Super plasticizer admixture IS marked as per 9103-1999	Kg	Rate as per item no.70 of Material rates of WRD
M-181	MAT-00327	Synthetic Geo grids as per clause 3102.8 and approved design and specifications.	Sqm	Rate as per local competitive quotations
M-182		Through and bond stone (a) 20X20x30 to 45 cm long	Each	Rate as per item no.75 of Material rates of WRD.
		Through and bond stone (b) 25X25x45 to 60 cm long	Each	Rate as per item no.76 of Material rates of WRD.
		Through and bond stone (c) 30X30x65 to 75 cm long	Each	Rate as per item no.77 of Material rates of WRD.
M-183	MAT-00328	Tie rods 20mm diameter	No's	58
M-184		Tiles size 300 x 300 mm and 25 mm thick	Each	As per Building SSR
M-185		Timber	Cum	
M-186	MAT-00329	Traffic cones with 150 mm reflective sleeve	No's	Rate as per local competitive quotations
M-187	MAT-00330	Tube anchorage set complete with bearing plate, permanent wedges etc	No's	
M-188	MAT-00331	Un slaked lime	Tonne	3,045
M-189(a)	MAT-00332	Water charges(Urban)	KiloLitre	125
(b)	MAT-00333	Water charges(Rural)	KiloLitre	95
M-190		Water based cement paint	Litre	As per Building SSR
M-191	MAT-00334	Welded steel wire fabric	Kg	159
M-192	MAT-00335	Wire mesh 50mm x 50mm size of 3mm wire	Kg	282

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-193		Wooden ballies 2" Dia for bracing	Each	As per Building SSR
M-194		Wooden ballies 8" Dia and 9 m long	Each	
M-195	MAT-00336	Wooden packing	Cum	1,286
M-196	MAT-00337	Wooden staff for fastening of flag 25 mm dia, one m long	Each	82
Item 8.3	MAT-00338	Printing new letter and figures of any shade (ii) English Roman	per cm height per letter	2
Item 8.8		Painting Two Coats on New Concrete Surfaces	Sqm	As per Building SSR
Item 8.9		Painting angle iron post Two Coats	Sqm	
		Miscellaneous Items		
1	MAT-00339	Benching old embankment slopes 0.45 X 0.45 M	RM	6
2	MAT-00340	Laying Sand Bags in the stipulated places including cost of empty cement bag, sand, thread, stitching charges and labour charges with 13.615 % overhead charges and contractors profits. (sand rate for filling is considered) Note: During the emergency conditions such as floods and other natural calamities, the above rate is allowed to enhance by 25% for 1st warning level and above, keeping in view of the difficulty in availability of labour and vehicles.	per bag	37
3	MAT-00341	Rough stone for revetment 225mm thick	Cum	180
4	MAT-00342	Eradication of Weed growth from Drains, Canals by spraying Chemicals	Sqm	3
5	MAT-00343	Thinner	Ltr	107
6	MAT-00344	Gear Oil	Ltr	290
7	MAT-00345	Cardium compound	kg	116

Conveyance Charges of Material

CONVEYANCE CHARGES OF MATERIALS AS PER SoR 2022-23 (COMMON TO ALL DEPARTMENTS).

**LEAD, LIFT, LOADING AND UNLOADING CHARGES FOR MATERIALS
FOR THE YEAR: 2022-23**

1. For total lead up to 150 m (including initial lead) lead charges by head load only shall be adopted irrespective of mode of conveyance.
2. For total lead exceeding 150 m conveyance by mechanical means only shall be adopted irrespective of mode of conveyance.
3. The rates for loading at quarry including idle hire charges of trucks and hire charges per for each kilometer and up to 5 km are cumulative and inclusive of total charges for Preceding lead.
4. Unless otherwise specified lead charges for Earth / Sand / Gravel / Aggregates and Stones are for loose volume and not for compacted or in-situ volume.
5. The rates for lift charges, lead charges, hire charges are cumulative and inclusive of rates for preceding lift, lead and hire charges.
6. Lift charges are not payable where conveyance of materials is by mechanical means to final placing point.
7. Loading and unloading charges are not payable for conveyance by head load.
8. Loading charges are not payable for conveyance by mechanical means for disposal of excavated materials beyond initial lead of 50 m wherever specified.
9. Loading and unloading charges are not payable for conveyance by mechanical means for disposal of excavated materials beyond initial lead of 1 km wherever specified.
10. The rates for unloading of materials except earth, sand, gravel, coarse aggregate, rubble, size stone and cut stone are inclusive of stacking.
11. Hire charges are per 1KM for tippers and trucks for transport of materials from work site to dump yard and other places are cumulative & includes previous km up to 5 kms
12. The lead & lift charges are exclusive of contractor's profit and overhead charges of 13.615%
13. The loading and unloading charges are also exclusive of Contractor's profit and overhead charges of 13.615%
14. During the BoCEs meeting held on 10.06.2015, the BoCEs has recommended to withdraw lead charges, loading and unloading charges for Cement as per the minutes of meeting of Sub-Committee held on 29.06.2015. (The conveyance charges, loading & unloading charges for cement are displayed for information purpose only).
15. As per the BOCE meeting held on 21.08.2019 in order to simplify the procedure of adding lead charges to the data items in the CFMS work module, the BOCE recommended to delete the contractor profit and over head charges from the calculation of Lead, Lift, Loading and Unloading charges. But at the time of preparation of estimates the contractor profit and over head charges on Lead, Lift, Loading and Unloading charges shall be added as usual.

**A. (LEAD) CONVEYANCE CHARGES FOR MATERIALS
BY HEAD LOAD FOR THE YEAR: 2022-23**

Sl No.	Total distance (Total lead includes initial lead)	Earth / Sand /Gravel / Murrum/ Lime/ Surki/ Size stone / Cut stone Rubble / Coarse aggregate	Cement / Reinforcement steel Str steel Rs / tonne	PCC slab/ Shahbad slab / CC block/BS slab/ Late-rite / Wood Rs /cum
1	2	3	4	5
1	Total lead up to 50 m (covered by item rate)	initial lead	initial lead	initial lead
2	Total lead up to 100 m	75.00	43.80	95.50
3	Total lead up to 150 m	150.00	87.50	190.90

Notes: 1. No loading or unloading charges are admissible for conveyance by head load.
2. For total lead exceeding 150 m conveyance charges by mechanical means only shall be adopted irrespective of mode of conveyance.

**B. (LEAD) CONVEYANCE CHARGES FOR MACHINERY PER KILOMETER FOR TRANSPORTING MATERIALS BY TIPPERS AND TRUCKS EXCLUDING LOADING, UNLOADING AND IDLE HIRE CHARGES OF MACHINERY FOR THE YEAR: 2022-23
(No loading and unloading charges allowed for machinery loading and unloading)**

Sl No.	Distance	(Lead) charges for tippers for Earth / Sand /Gravel / Murrum/ Lime/ Surki/ per cu.meter	(Lead) charges for trucks for Rubble/Size stones/ Cut Stones/ Coarse aggregate per cu.meter	(Lead) charges for trucks for Cement/ Steel/ RCC poles/ AC & GI sheets/ Packed materials/ tonne	(Lead) charges for trucks per cu.meter for PCC slabs/ Shahabad slabs/ CC & Laterite blocks/ Wood/ cum	(Lead) charges for 1000 litres	(Lead) charges for trucks per 1000 nos. of bricks
1	2	3	4	5	6	7	8
1	Lead up to 1 km	36.00	34.70	21.70	51.00	21.90	57.80
2	Lead up to 2 km	50.40	48.50	30.30	71.40	30.70	80.90
3	Lead up to 3 km	67.20	64.70	40.40	95.20	40.90	107.80
4	Lead up to 4 km	81.60	78.60	49.10	115.60	49.70	131.00
5	Lead up to 5 km	96.00	92.40	57.80	135.90	58.40	154.10
6	for Every km beyond 5 km up to 30 km	14.40	13.90	8.70	20.40	8.80	23.10
7	for Every km beyond	12.00	11.60	7.20	17.00	7.30	19.30

C. LOADING AND UNLOADING CHARGES BY MANUAL MEANS**(idle hire charges of trucks are not added)**

Sl No.	Description of item	Earth / Sand /Gravel /Murrum/ / Surki/ Rs / cum	Rubble/ size stone/ cut stone/ Coarse aggregate , Lime in Rs/cum	Cement in Rs/tonne	Steel in Rs./tonne	Brick work Rs/1000 No
1	2	3	4	5	6	7
1	Loading	24.90	49.80	82.10	98.50	68.50
2	Unloading	12.45	24.90	82.10	98.50	68.50

D. LOADING AND UNLOADING CHARGES BY MANUAL MEANS**(Including idle hire charges of trucks)**

Sl No.	Description of item	Earth / Sand /Gravel /Murrum/ / Surki/ Rs / cum	Rubble/ size stone/ cut stone/ Coarse aggregate , Lime in Rs/cum	cement in Rs/tonne	steel in Rs./tonne	brick work Rs/1000 No
1	2	3	4	5	6	7
1	Loading	129.90	154.80	197.70	214.00	259.10
2	Unloading	47.30	77.40	197.70	214.00	259.10

E. LOADING AND UNLOADING CHARGES BY MECHANICAL MEANS**(Including idle hire charges of trucks)**

Sl No.	Description of item	Earth / Sand /Gravel /Murrum/ / Surki/ Rs / cum	Rubble/ size stone/ cut stone/ Coarse aggregate, Lime in Rs/cum
1	2	3	4
1	Loading	57.70	114.90
2	Unloading	18.20	18.20

F. LIFT CHARGES FOR MATERIALS BY HEADLOAD

Sl No.	Total lift (Total lift includes initial lift)	Earth / Sand /Gravel Murrum/ Lime/ Surki/ Size stone / Cut stone Rubble / Coarse aggregate Rs / cum	Cement / Reinforcement steel Str steel Rs / tone	PCC slab/ Shahbad slab / CC block/ BS slab /Laterite / Wood Rs / cum
1	2	3	4	5
1	Total lift up to 3 m (covered by item rate)	Initial lift	Initial lift	Initial lift
2	For Every 1.00 Lift beyond initial lift of 3 meters	8.80	6.30	11.70

HIRE CHARGES

**HIRE CHARGES OF PLANT &
MACHINERY FOR THE YEAR: 2022-23**

Sl. No	DESCRIPTION	UNIT	CODE	Hire Charges	CODE	Fuel Charges	CODE	Crew Charges	Total in Rs
1	Agitator car / Transit mixer 2 cum	Hour	HIR-00001	719.30	HIR-00135	1508.60	LAB-00317	391.60	2619.50
2	Air compressor 5 cmm (electric)	Hour	HIR-00002	97.10	HIR-00136	285.50	LAB-00318	230.10	612.70
3	Air compressor 7 cmm (diesel)	Hour	HIR-00003	218.50	HIR-00137	1234.30	LAB-00319	294.50	1747.30
4	Air compressor 7 cmm (electric)	Hour	HIR-00004	121.70	HIR-00138	380.70	LAB-00320	230.10	732.50
5	Air compressor 8.5 cmm (diesel	Hour	HIR-00005	254.90	HIR-00139	1542.90	LAB-00321	294.50	2092.30
6	Air compressor 8.5 cmm (Electric)	Hour	HIR-00006	156.40	HIR-00140	475.90	LAB-00322	230.10	862.40
7	Air compressor 15 cmm (electric)	Hour	HIR-00007	123.90	HIR-00141	1057.50	LAB-00323	245.40	1426.80
8	Angle Dozer 90 hp	Hour	HIR-00008	1650.20	HIR-00142	1055.30	LAB-00324	326.30	3031.80
9	Batching plant 0.5cum(6 cum/hr)	Hour	HIR-00009	106.90	HIR-00143	126.90	LAB-00325	473.50	707.30
10	Batching plant 2 x 1.00 cum(15 cum/hr)	Hour	HIR-00010	378.20	HIR-00144	380.70	LAB-00326	473.50	1232.40
11	Batching plant 2 x 1.50 cum(50 cum/hr)	Hour	HIR-00011	579.10	HIR-00145	465.30	LAB-00327	473.50	1517.90
12	Bending machine 3000 x 12 mm	Hour	HIR-00012	41.30	HIR-00146	126.90	LAB-00328	184.10	352.30
13	Clam shell and hoisting ropes	Hour	HIR-00013	5.70	HIR-00147	0.00		0.00	5.70
14	Concrete bucket 1.5 cum	Hour	HIR-00014	15.10	HIR-00148	0.00		0.00	15.10
15	Concrete hand mixer 45 / 30 ltr	Hour	HIR-00015	5.40	HIR-00149	0.00		0.00	5.40
16	Concrete mixer 300 / 200 (diesel)	Hour	HIR-00016	51.00	HIR-00150	137.10	LAB-00329	306.80	494.90
17	Concrete mixer 300 / 200 ltr (electric)	Hour	HIR-00017	49.60	HIR-00151	42.30	LAB-00330	306.80	398.70
18	Concrete mixer 600 / 400 (diesel) / 0.28 cum	Hour	HIR-00018	86.40	HIR-00152	274.30	LAB-00331	306.80	667.50
19	Concrete mixer 600 / 400 ltr (electric)	Hour	HIR-00019	84.60	HIR-00153	84.60	LAB-00332	306.80	476.00
20	Concrete paver 100 sqm / hr	Hour	HIR-00020	334.20	HIR-00154	0.00	LAB-00333	589.10	923.30

Machinery Hire Charges – Common SoR 2022-23

Sl. No	DESCRIPTION	UNIT	CODE	Hire Charges	CODE	Fuel Charges	CODE	Crew Charges	Total in Rs
21	Convey mucker	Hour	HIR-00021	775.90	HIR-00155	294.40	LAB-00334	245.40	1315.70
22	Core drilling machine / Drilling equipment	Hour	HIR-00022	303.10	HIR-00156	411.40	LAB-00335	391.60	1106.10
23	Diesel generating set 30 KVA	Hour	HIR-00023	62.90	HIR-00157	1097.10	LAB-00336	184.10	1344.10
24	Diesel generating set 50 KVA	Hour	HIR-00024	78.60	HIR-00158	1645.70	LAB-00337	184.10	1908.40
25	Diesel Loco 45 hp	Hour	HIR-00025	362.90	HIR-00159	925.70	LAB-00338	230.10	1518.70
26	Dewatering pump 5 hp (diesel)	Hour	HIR-00026	9.70	HIR-00160	137.10	LAB-00339	153.50	300.30
27	Dewatering pump 5 hp (electric)	Hour	HIR-00027	2.90	HIR-00161	42.30	LAB-00340	115.10	160.30
28	Dewatering pump 10 hp (diesel)	Hour	HIR-00028	14.70	HIR-00162	274.30	LAB-00341	153.50	442.50
29	Dewatering pump 10 hp (electric)	Hour	HIR-00029	6.40	HIR-00163	84.60	LAB-00342	115.10	206.10
30	Dewatering pump 20 hp (diesel)	Hour	HIR-00030	46.60	HIR-00164	548.60	LAB-00343	153.50	748.70
31	Dewatering pump 20 hp (electric)	Hour	HIR-00031	12.00	HIR-00165	169.20	LAB-00344	115.10	296.30
32	Drifter	Hour	HIR-00032	305.30	HIR-00166	0.00	LAB-00345	489.50	794.80
33	Drilling jumbo	Hour	HIR-00033	356.70	HIR-00167	74.10	LAB-00346	245.40	676.20
34	Dumper 4.5 cum	Hour	HIR-00034	568.50	HIR-00168	691.20	LAB-00347	313.20	1572.90
35	Geophysical Electric resistivity meter	Hour	HIR-00035	102.70	HIR-00169	0.00		0.00	102.70
36	Grouting pump	Hour	HIR-00036	22.60	HIR-00170	42.30	LAB-00348	368.20	433.10
37	Guniting / sand blast equipment	Hour	HIR-00037	116.90	HIR-00171	0.00	LAB-00349	306.80	423.70
38	Ice plant & accessories 30 t / day	Hour	HIR-00038	175.50	HIR-00172	1205.50	LAB-00350	184.10	1565.10
39	Jack hammer	Hour	HIR-00039	18.60	HIR-00173	0.00	LAB-00351	460.20	478.80
40	Needle vibrator 40 mm (petrol)	Hour	HIR-00040	7.40	HIR-00174	30.80	LAB-00352	220.90	259.10
41	Needle vibrator 40 mm (electric)	Hour	HIR-00041	7.80	HIR-00175	8.50	LAB-00353	220.90	237.20
42	Needle vibrator 60 mm (petrol)	Hour	HIR-00042	7.70	HIR-00176	46.20	LAB-00354	220.90	274.80
43	Needle vibrator 60 mm (electric)	Hour	HIR-00043	9.50	HIR-00177	12.70	LAB-00355	220.90	243.10

Machinery Hire Charges – Common SoR 2022-23

Sl. No	DESCRIPTION	UNIT	CODE	Hire Charges	CODE	Fuel Charges	CODE	Crew Charges	Total in Rs
44	Planing machine 4 m stroke	Hour	HIR-00044	119.60	HIR-00178	126.90	LAB-00356	294.50	541.00
45	Plate shearing machine upto 12 mm	Hour	HIR-00045	42.70	HIR-00179	169.20	LAB-00357	195.80	407.70
46	Pneumatic placer 0.5 cum	Hour	HIR-00046	164.50	HIR-00180	0.00	LAB-00358	119.90	284.40
47	Pneumatic tamper	Hour	HIR-00047	19.60	HIR-00181	0.00	LAB-00359	368.20	387.80
48	Pug cutting machine	Hour	HIR-00048	6.90	HIR-00182	4.20		0.00	11.10
49	Pusher leg	Hour	HIR-00049	12.70	HIR-00183	0.00		0.00	12.70
50	Road roller diesel 10 t	Hour	HIR-00050	192.30	HIR-00184	1234.30	LAB-00360	299.50	1726.10
51	Shovel 0.50 cum 75 hp	Hour	HIR-00051	987.00	HIR-00185	822.09	LAB-00361	326.30	2136.20
52	Shovel 0.85 cum 110 hp / Hydraulic Excavator	Hour	HIR-00052	1648.80	HIR-00186	1508.60	LAB-00362	326.30	3483.70
53	Stationery derrick crane	Hour	HIR-00053	80.90	HIR-00187	0.00		0.00	80.90
54	Tipper 5 / 5.5 cum	Hour	HIR-00054	436.30	HIR-00188	518.40	LAB-00363	244.70	1199.40
55	Tipping tub 1.5 cum	Hour	HIR-00055	62.40	HIR-00189	0.00		0.00	62.40
56	Tower crane 5 tonne	Hour	HIR-00056	803.70	HIR-00190	220.00	LAB-00364	261.00	1284.70
57	Transformer 250 KVA	Hour	HIR-00057	5400.30	HIR-00191	0.00		0.00	5400.30
58	Truck 10 t / Truck 5.5 cum per 10 tonnes	Hour	HIR-00058	395.30	HIR-00192	518.40	LAB-00365	241.80	1155.50
59	Truck mounted derrick crane 5 t	Hour	HIR-00059	512.50	HIR-00193	518.40	LAB-00366	241.80	1272.70
60	Upright drilling machine/Grinder	Hour	HIR-00060	21.80	HIR-00194	42.30	LAB-00367	269.10	333.20
61	Ventilation fan 20 hp	Hour	HIR-00061	12.10	HIR-00195	169.20	LAB-00368	39.70	221.00
62	Vibratory pad foot roller 8 t	Hour	HIR-00062	1328.10	HIR-00196	1782.90	LAB-00369	368.20	3479.20
63	Wagon drill	Hour	HIR-00063	182.50	HIR-00197	0.00	LAB-00370	391.60	574.10
64	Water tanker 8000 ltr	Hour	HIR-00064	408.30	HIR-00198	518.40	LAB-00371	241.80	1168.50
65	Welding set	Hour	HIR-00065	16.20	HIR-00199	101.50		0.00	117.70

Machinery Hire Charges – Common SoR 2022-23

Sl. No	DESCRIPTION	UNIT	CODE	Hire Charges	CODE	Fuel Charges	CODE	Crew Charges	Total in Rs
66	Winch 35 hp (electric)	Hour	HIR-00066	133.20	HIR-00200	207.30	LAB-00372	368.20	708.70
67	Hydraulic Truck Crane 30T	Hour	HIR-00068	3090.40	HIR-00202	2035.30	LAB-00373	736.30	5862.00
68	Hydraulic Truck Crane 16T	Hour	HIR-00069	2184.70	HIR-00203	1800.00	LAB-00374	736.30	4721.00
69	Heavy Duty Airless Spray Painting Equipment	Hour	HIR-00070	118.60	HIR-00204				118.60
70	Concrete Placer Pump (25 cum/hr) (Electric) / 30 Cum	Hour	HIR-00071	909.80	HIR-00205	507.60	LAB-00375	230.10	1647.50
71	Tractor with 2T roller	Hour	HIR-00067	390.00	HIR-00201				390.00



Government of Andhra Pradesh

**COMMON SCHEDULE OF RATES
FOR THE YEAR 2022-23
(Effective from 1st June, 2022)**

R&B Department, AP

ROAD & BRIDGE WORKS

INDEX
PART-II
ROAD & BRIDGE WORKS

Sl. No.	Description	Page No.	
		From	To
1	Preamble	3	8
2	Labour Rates	9	13
3	Material & Work Item Rates	14	25
4	Hire Charges of Plant & Machinery for Road & Bridge Works	26	29

PREAMBLE

1.0 AREA ALLOWANCES:

A) CORPORATIONS & MUNICIPALITIES:

- a)
 - i) 25% extra over the rates on labour component of works is allowed in all Municipal Corporation Limits of Andhra Pradesh except Greater Visakhapatnam Municipal Corporation and Vijayawada Municipal Corporation (Upto a belt of 12 kms from Municipal corporation limits) and other Municipal Corporations as notified by the Government from time to time.
 - ii) 40% extra over the rates on labour component of works for Greater Visakhapatnam and Vijayawada Municipal Corporation limits (Upto a belt of 12 kms from Municipal corporation limits)
 - iii) 40% extra over the rates on labour component of works for Amaravati Capital City area (217.23 Sq. Km) as declared by the Govt. vide GO MS No. 141 MA&UD (M2) Dept., dt. 9.6.2015 (This is introduced as per the Govt. instructions issued in Govt. Memo No. 668755/ Reforms/ 2017 dt. 14.7.2017).
- b) Allow 20% extra over basic rates on labour component of works in all District Headquarters and the remaining Municipal limits (up to a belt of 12 Kms. from Municipal limits)
- c) For works at Tirumala Hills in Chittoor District, 40% extra over the basic rates of labour component is allowed.
- d) For works at Horsely hills in Chittoor District, 30% extra over the basic rates of labour component is allowed.
- e) For works located inside Tirumala Temple, 20% extra over the basic rate of labour component specified for Tirumala Hills is allowed.
- f) For Works located inside T.T.D Temples of Sri Padmavathi Ammavari Temple, Tiruchanoor, Sri Govindaraja Swamy Temple at Tirupathi, Sri Kapileswara Swamy Temple, Kapilatheertham, Tirupathi and Sri Kalyana Venkateswara Swamy Temple, Srinivasa Mangapuram , 20% extra over the basic rates of labour component for Tirupathi Municipal Corporation is allowed.

B) JAIL COMPOUNDS:

20% extra is allowed over labour rates for the works in the Jail compounds. Only equivalent number of Man Mazdoor shall be provided in the Jail premises and no Women Mazdoor are allowed inside.

C) INDUSTRIAL AREA:

- a. 20% Extra over basic rates on labour component works allowed for works situated within 10 Kms belt of Industrial area of Ibrahimpatnam, Vuyyuru, Jaggaiahpetta in Krishna District, Macherla, Gurajala, Challapalli in Guntur District, Garividi in Vijayanagaram District, Renigunta in Chittoor District, Yerraguntla & Mangampet in Kadapa District, Hindupur, Tadipatri, Anantapur, Guntakal, Rayalcheruvu, Yadiki of Anantapur District, Adoni, Dhone, Cement Nagar, Nandyal, Kurnool, Yemmiganur & Bethamcherla of Kurnool District and Anakapally of Vishakhapatnam District.

D) AGENCY / TRIBAL AREAS:

- a) 25% extra allowed for the works located with in the interior Agency / Tribal limits, i.e. for the works located with in & upto 16 KMs from any all weather route inside Agency / Tribal.
- b) 40% extra allowed for the works located with in the interior Agency / Tribal limits, i.e. for the works located beyond 16 KMs from any all weather route inside Agency / Tribal.

- NOTE:**
1. No extra percentage is permissible in respect of Forest produce such as Bamboo, Rellu grass and for all materials obtained from outside the Agency / Tribal.
 2. The extra percentage under Agency / Tribal areas allowance may be allowed on the labour component and on the labour charges in the rates for conveyance of materials.
 3. The extra percentage on cost of materials in Agency / Tribal areas can be allowed on the labour component only, if they are manufactured in the Agency / Tribal areas itself except Forest produce.

E) GHAT ROADS:

For Ghat Roads steeper than 1 in 20, the length of the road may be taken as 1.5 times the existing length of the road for the purpose of leads only for conveyance of materials based on the certificate for the Ghat Road given by the Superintending Engineer concerned.

Note: Under compelling circumstances, the concerned Chief Engineer can adopt the equivalent length of road as 2 ½ times of actual length.

Note for area allowances:

If more than one area allowance (such as those) for (1) Municipalities (2) Agency / Tribal areas (3) Industrial areas are applicable for a particular situation, only the maximum out of the allowable percentages is to be allowed.

2.0 WATER LEADS:

The following labour is allowed for conveyance of water for every ½ Kilometer lead or part there of over the initial lead of ½ kilometer.

- a) Cement concrete : 1.5 Women Mazdoor / Cum.
- b) Masonry : 1.0 Woman Mazdoor/ Cum.
- c) Plastering : 0.5 Woman Mazdoor/ 10 Sq.m

Note:- For Water leads of over 2 KMs, specific approval of Chief Engineer concerned is necessary.

3.0 EXCAVATION OF TRIAL TRENCHES, TRIAL PITS AND EXCAVATION IN RESTRICTED PLACES: -

I) EXCAVATION OF TRIAL TRENCHES, TRIAL PITS AND EXCAVATION IN RESTRICTED PLACES: -

A. TRIAL TRENCHES:

- 1) Trial trenches of not more than 2 metres in width ...25% extra

B. TRIAL PITS:

- 1) Up to 2 Metres depth ... 25% extra
- 2) 2 Metres to 4 Metres depth ... 50% extra
- 3) 4 Metres to 6 Metres depth ... 75% extra
- 4) 6 Metres to 8 Metres depth ... 100% extra
- 5) 8 Metres to 9 Metres depth ... 150% extra
- 6) More than 9 Metres depth ... 200% extra

II) EXCAVATION IN RESTRICTED PLACES:-

- I) Foundation of Buildings 75% extra
- II) For pipe lines where the depth is less than 1.5 times the width 75% extra
- III) For pipe lines where the depth is 1.5 times or more than the width 120% extra
- IV) Silt removal in restricted areas such as U. T's., Culverts and Syphons. ... 120% extra
- V) Excavation of field channels ... 75% extra

- VI) For narrow trenches not more than 2 meters in width and depth not less than twice the width and for excavation of road boundary drains, model sections of canals. ... 75% extra
- VII) High berm cutting of not more than 150 mm average thickness and Sectioning for roads ... 50% extra

Note: 1) The extra percentage is allowed over rate for corresponding soil. It includes the charges for all lifts and initial lead but does not include dewatering charges if any in respect of all the items under (A) and (B) above.

2) The above extra percentages in respect of excavation in hard rock for restricted places are to be allowed for (2/3) rd of the cost and shall not to be allowed in respect of items involving blasting component which may be taken as 1/3 of the cost.

4.0 Proportion of First class and 2nd class workmen under Skilled Labour:

30% of the skilled labour provided in the data may be taken as 1st Class and the remaining 70% as 2nd Class.

5.0 Revetment and apron works:

- I) The size of stone for the volume range (0.015 to 0.030 Cum) shall not be less than (0.30 X 0.30 X 0.15 to 0.30 X 0.225 X 0.225m)
- II) The size of stone for the volume range (0.011 to 0.015 Cum) shall not be less than (0.30 X 0.225 X 0.15 to 0.225 X 0.225 X 0.225 m)
- III) The rate of labour component as per the standard data book is to be adopted for revetment work only. However for apron work Rs. 3.00 per cum. should be deducted.
- IV) For the labour for the “Rock Toe” shall be taken as 2/3rd of the labour charges of revetment as Chief Engineer, Circular No. P3/ OT2/ T3/ 65167/78, Dt: 19.03.1980.

6.0 Deep cuts:

Deep cuts are defined as reaches of canal where excavation in all soils is for a depth of excavation 6m and more. The following increase over normal rates is permitted in deep cuts on a graded basis.

- I) Up to 6 m excavation: The S. S. R. of corresponding classification of earth work excavation is applicable.
- II) Beyond 6 m and up to 9 m excavation - 9% extra
- III) Beyond 9 m and up to 12 m excavation - 12% extra
- IV) Beyond 12 m and up to 16 m excavation - 15% extra

V)	Beyond 16 m and up to 30 m excavation	-	20% extra
VI)	Beyond 30 m excavation	-	40% extra

NOTE : 1) The extra percentage is only on basic rate. 2) The above percentage are not applicable for “LEADS & LIFTS”. 3) The above extra percentages are to be allowed only on items excluding the blasting component which may be taken as 1/3 of the rate.

7.0 The conveyance of bitumen for bulk and packed may be admitted as follows:

Packed	---	Rs. 1.90 per Km/ MT
Bulk	---	Rs. 1.90 per Km/ MT (round the trip)

8.0 SEIGNIORAGE CHARGES:

Seigniorage charges for materials as fixed by the Government in G.O.Ms.No.11 (Industries and commerce department) Dt. 11.2.2020 shall be shown in Part-B of the estimate. The Provision towards Contractor's Profit and Overhead charges **should not be operated** on the Seigniorage Charges. In case of revision, the revised rates as fixed by Mines and Geology Department have to be adopted.

9.0 Earthwork excavation rate for Trench cutting, formation of embankment & shoulders, foundations, removal of unserviceable soil etc., is to be arrived based on the Machinery adopted in the MoRTH Standard data book for excavation of soil.

10.0 All the Materials and Machinery Hire charges are excluding taxes.

LABOUR RATES

Si. No	S.S. Item No.	CFMS Code	Description	Unit (Per)	S o Rate for 2022-23 in Rs.	Remarks
1	2	3	4	5	6	7
			(A) SKILLED WORKMEN			
			First Class			
1	a	LAB-00039	Stone cutter	Day	620	As per WR Dept. (S.No.39)
2	b	LAB-00011	Mason & Brick Layer	Day	630	As per WR Dept. (S.No.11)
3	c	LAB-00004	Carpenter	Day	705	As per WR Dept. (S.No.4)
4	d	LAB-00035	Painter	Day	705	As per WR Dept. (S.No.35)
5	e	LAB-00036	Plumber	Day	705	As per WR Dept. (S.No.36)
6	f	LAB-00041	Welder	Day	615	As per WR Dept. (S.No.41)
7	g	LAB-00006	Fitter	Day	660	As per WR Dept. (S.No.6)
8	h	LAB-00005	Electrician	Day	700	As per WR Dept. (S.No.5)
9	1	LAB-00125	Cook	Day	565	As per WR Dept. (S.No.2) Other Category
10	2	LAB-00012	Mechanic	Day	635	As per WR Dept. (S.No.12)
11	3	LAB-00043	Rigger	Day	650	
12	4	LAB-00044	Rigger Syrang	Day	650	
13	5	LAB-00045	Well Sinker	Day	650	
14	6	LAB-00003	Blaster	Day	690	As per WR Dept. (S.No.3)
15	3	LAB-00001	Bar bender	Day	750	As per WR Dept. (S.No.1)
16	7	LAB-00015	Tipper and Heavy Vehicle Driver above 12 T	Day	675	As per WR Dept. (S.No.15)
17		LAB-00046	Tanker and medium Vehicle driver (7.5 T to 12 T)	Day	645	
18		LAB-00047	Tanker and Light Vehicle driver up to 7.5 T	Day	495	
19		LAB-00048	Wagon Drill Operator upto 7.5 T	Day	645	
20	8	LAB-00049	Lorry and Heavy Vehicle Driver above 12 T	Day	680	
21		LAB-00027	Road Roller Driver (7.5 T to 12 T)	Day	635	As per WR Dept. (S.No.27)
22			Road Roller Driver 7.5 T	Day	Deleted	
23	9		Tractor Driver above 12 T	Day	Deleted	
24			Tractor Driver (7.5 T to 12 T)	Day	deleted	
25		LAB-00050	Tractor Driver 7.5 T	Day	625	
			Operator			
26	10	LAB-00051	Pan Mixer	Day	665	
27		LAB-00016	Concrete Mixer	Day	615	As per WR Dept. (S.No.16)

Si. No	S.S. Item No.	CFMS Code	Description	Unit (Per)	S o Rate for 2022-23 in Rs.	Remarks
1	2	3	4	5	6	7
28		LAB-00032	Vibrator	Day	615	As per WR Dept. (S.No.32)
29		LAB-00052	Composer	Day	625	
30		LAB-00023	Jack Hammer	Day	615	As per WR Dept. (S.No.23)
31		LAB-00034	Driller	Day	690	As per WR Dept. (S.No.34)
32		LAB-00053	Boring Maistry	Day	600	
33	11	LAB-00024	Pump operator	Day	615	As per WR Dept. (S.No.24)
34	12	LAB-00054	Turner Grade-I	Day	650	
35	13	LAB-00135	Wireless Operator	Day	690	As per WR Dept. (S.No.12) Other Category
36	14	LAB-00055	Assistant Wireless Operator	Day	590	
37	15	LAB-00138	Jeep Driver	Day	685	As per WR Dept. (S.No.15) Other Category
38	16	LAB-00132	Work Inspector with I.T.I qualification	Day	705	As per WR Dept. (S.No.9) Other Category
39	17	LAB-00127	Work Inspector with LCE, LME,L.E.E qualification	Day	975	As per WR Dept. (S.No.4) Other Category
40	18	LAB-00130	Work Inspector with B.E (Civil, Mechanical and Electrical) qualification	Day	1255	As per WR Dept. (S.No.7) Other Category
41	19	LAB-00010	Work Inspector with Non-technical qualification SSLC/SSC/HSC	Day	685	As per WR Dept. (S.No.10)
42	20	LAB-00056	Mason Spl. Grade for Mossaic and Polished shahabad stone floor	Day	640	
43	21 a(i)	LAB-00136	Typist / Job Typist	Day	690	As per WR Dept. (S.No.13) Other Category
	a (ii)	LAB-00134	Computer operator	Day	770	As per WR Dept. (S.No.11) Other Category
	b	LAB-00137	CAD Operator with Diploma in Engineering /General degree with CAD certificate	Day	975	As per WR Dept. (S.No.14) Other Category
			(B) SEMI –SKILLED WORKMEN			
			SECOND CLASS			
44	a	LAB-00091	Mason	Day	565	As per WR Dept. (S.No.35) Semi-Skilled
45	b	LAB-00091	Brick Layer and Stone Cutter	Day	565	As per WR Dept. (S.No.35) Semi-Skilled
46	c	LAB-00060	Carpenter	Day	565	As per WR Dept. (S.No.4) Semi-Skilled
47	d	LAB-00093	Painter	Day	565	As per WR Dept. (S.No.37) Semi-Skilled

Sl.no	S.S. Item No.	CFMS Code	Description	Unit (Per)	S o Rate for 2022-23 in Rs.	Remarks
1	2	3	4	5	6	7
48	e		deleted			
49	f	LAB-00002	Blacksmith	Day	590	As per WR Dept. (S.No.2) (Skilled)
50	g	LAB-00098	Welder	Day	570	
51	h	LAB-00099	Fitter	Day	570	
52	i	LAB-00100	Electrician	Day	570	
53	2	LAB-00101	Caulker	Day	570	
54	4	LAB-00102	Tinker	Day	570	
55	5	LAB-00103	Sawyer	Day	570	
56	6	LAB-00104	Brick-Moulder	Day	570	
57	7	LAB-00105	Pot-tile turner	Day	570	
58	8	LAB-00106	Pan-tile turner	Day	570	
59	9	LAB-00107	Brick and Lime Kiln man/Glazier	Day	570	
60	10	LAB-00135	Telephone Operator	Day	690	As per WR Dept. (S.No.12) Other Category
61	11	LAB-00108	Hand Driller	Day	570	
62	12	LAB-00109	Quarry Man	Day	570	
63	13	LAB-00081	Hammer Man	Day	565	As per WR Dept. (S.No.40) Semi-skilled
64	14	LAB-00110	Thatcher	Day	570	
65	15	LAB-00111	Fireman	Day	570	
66	16	LAB-00112	Cleaner/Helper	Day	570	
67	17	LAB-00113	Stone Packer	Day	570	
68	18	LAB-00114	Jawali	Day	570	
69	19	LAB-00115	Ex-Service man/Goorkha watchman	Day	570	
70	20	LAB-00116	Ratton Worker	Day	570	
71	21	LAB-00117	Mate	Day	570	
72	1	LAB-00066	Head Mazdoor (Mukaddar)	Day	565	As per WR Dept. (S.No.10) Semi-Skilled
			(C) UNSKILLED WORKMEN			
73	2	LAB-00120	Man Mazdoor	Day	525	As per WR Dept. (S.No.3) Un-Skilled
74	3	LAB-00122	Watch Man	Day	525	As per WR Dept. (S.No.5) Un-Skilled
75	5	LAB-00121	Woman Mazdoor	Day	525	As per WR Dept. (S.No.4) Un-Skilled
76	6 (b)	LAB-00123	Helper/Cleaners/Sweepers/Scavengers/Choukidars/Security Guards/Office Boys	Day	505	
<p>Note : Whenever unskilled workmen are engaged for cleaning of Sewers & Septic Tanks, they may be paid double the above wages.</p>						

(D) OTHER CONVEYANCE ITEMS						
Sl.no	S.S. Item No.	CFMS Code	Description	Unit (Per)	So Rate for 2022-23 in Rs.	Remarks
1	2	3	4	5	6	7
77	1	LAB-00062	Single bullock with driver and cart	Day	590	As per WR Dept. (S.No.6) Semi-Skilled
78	2		Bullock pair with driver	Day	650	
79	3	LAB-00061	Bullock pair with driver and cart	Day	630	As per WR Dept. (S.No.5) Semi Skilled
80	4	LAB-00140	Bullock pair with driver and cart with pneumatic tyres	Day	725	
81	5		Bullock pair driver and kapila	Day	Deleted	
82	6	LAB-00063	Nava with crew	Day	565	As per WR Dept. (S.No.3) Semi Skilled
83	7	LAB-00141	Punt thundal	Day	485	
84	8	LAB-00142	Punt lascar	Day	485	
	Note:		1) The wage should not be less than the minimum wages of schedule of employment, subject to out turn.			
			2) 25% extra over the corresponding labour rates in respect of the work to be done during night time subject to issue of certificate accordingly by the concerned estimate sanctioning authority for providing in the data and by the concerned Executive Engineer in charge of the work for payment. The night time allowance is applicable only to the works done under Greater Visakhapatnam Municipal Corporation and Vijayawada Municipal Corporation only.			

MATERIAL & WORK ITEM RATES

RATES OF MATERIALS & WORK ITEMS

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	S o Rate for 2022-23 in Rs.	Remarks
1	2	3	4	5	6	7
			(A) STONE AND ROAD MATERIALS			
			ROUGH STONE QUARRIED INCLUDING WEDGING, BREAKING, BURNING, SPLITTING.			
1	MAT-00405	22.a	For R.R Masonry Work (other than Granite, Dolomite and Trap)	1 cum	171.45	
2	MAT-00341	b.i	For SS Revetment work 225 mm	1 cum	180.00	As per WR Dept. (S.No.3) of Miscellaneous items
3	MAT-00176	b.ii	For SS Revetment work 300 mm	1 cum	195.00	As per WR Dept. (M 003 of Materials other than covered under Irrigation items)
4	MAT-00406	b.iii	For SS Revetment work 450 mm	1 cum	148.55	
5	MAT-00407	c	Jeddy Stone above 450 mm to 600 mm	1 cum	208.00	
6	MAT-00408	d i	Laterite for revetment 225 mm	1 cum	129.50	
7	MAT-00409	d ii	Laterite for revetment 300 mm	1 cum	151.43	
8	MAT-00410	d iii	Granite for SS revetment 225 mm	1 cum	168.55	
9	MAT-00411	d iv	Granite for SS revetment 300 mm	1 cum	163.80	
			Note:- Only when other granite is not available			
10	MAT-00412	e	Laterite for masonry	1 cum	148.55	
11	MAT-00413	f	Cyclopean stones above 0.2 cum	1 cum	278.10	
12	MAT-00302	g	For R.R.Masonry works (granite, dolomite and trap variety)	1 cum	298.00	As per WR Dept. (M 148 of Materials other than covered under Irrigation items)
13			NOTE:- For items 22(a) to 22© and 22(g) add extra Rs /cum, wherever quarrying is done by blasting	1 cum	70.00	
			COURSED RUBBLE STONE QUARRYING WEDGING, BREAKING, BURNING AND SPLITTING FOR SS FIRST SORT WORKS			
14	MAT-00414	23.a	Granite, Dolomite and trap	1 cum	274.30	
15	MAT-00415	23.b	For other varieties	1 cum	197.15	
16	MAT-00416	27	Granite stone slabs for culverts, lintels and copings (3 faces dressed coarsed rubble masonry)	1 cum	1810.50	

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	So Rate for 2022-23 in Rs.	Remarks
1	2	3	4	5	6	7
17			NOTE: - For items 23(a), 23(b) and 27 add extra Rs. Per Cum, wherever quarrying is done by blasting	1 cum	82.00	
18	MAT-00417	28.a	Bond stones (600 x 200 x 200 mm)	each	47.60	
19	MAT-00418	b	Chainage stones and Centre line stones (750x150x150 mm)	each	47.60	
20	MAT-00419	31	Demarcation Stones (900 x 150 x 150 mm)	each	85.70	
21	MAT-00420	32.a	Guard Stones (1200 x 200 x 200 mm)	each	144.75	
22	MAT-00421	B	Guide Stones (800 x 150 x150 mm)	each	97.15	
23	MAT-00422	C	Carving letters and figures in stone up to 100 mm size	each	9.50	
24	MAT-00423	D	Carving letters and figures in stone above 100 mm size	each	10.50	
			HARD BROKEN STONE OF GRANITE, TRAP AND DOLERITE FREE FROM DUST OBTAINED BY QUARRYING, WEDGING, BREAKING, BURNING AND SPLITTING			
25	MAT-00215	33.a	- do - 6 mm size (SS 5)	1 cum	636.00	As per WR Dept. (M 050 of Materials excluding blasting charges Rs.70/- and Machine crushing charges @ 25%)
26	MAT-00216	b	- do - 10 mm size (SS 5)	1 cum	800.00	As per WR Dept. (M 051 of Materials excluding blasting charges Rs.70/- and Machine crushing charges @ 25%)

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	So Rate for 2022-23 in Rs.	Remarks
1	2	3	4	5	6	7
27	MAT-00217	c	- do - 12 mm size (SS 5)	1 cum	952.00	As per WR Dept. (M 052 of Materials excluding blasting charges Rs.70/- and Machine crushing charges @ 25%)
28	MAT-00218	d	- do - 20 mm size (SS 5)	1 cum	1196.00	As per WR Dept. (M 053 of Materials excluding blasting charges Rs.70/- and Machine crushing charges @ 25%)
29	MAT-00219	e	- do - 25 mm size (SS 5)	1 cum	1145.00	As per WR Dept. (M 054 of Materials excluding blasting charges Rs.70/- and Machine crushing charges @ 25%)
30	MAT-00220	f	- do - 40 mm size (SS 5)	1 cum	716.00	As per WR Dept. (M 055 of Materials excluding blasting charges Rs.70/- and Machine crushing charges @ 25%)
31	MAT-00424	g	- do - 50 mm size (SS 5)	1 cum	434.30	
32	MAT-00425	h	- do - 60 mm size (SS 5)	1 cum	399.05	
33	MAT-00426	i	- do - 65 mm size (SS 5)	1 cum	360.95	
34	MAT-00427	j	- do - 75 mm size (SS 5)	1 cum	289.50	
35	MAT-00428	k	- do - 75 to 100 mm size (SS 5)	1 cum	236.20	
36			NOTE:- (1) Add extra Rs. /- per cum for items 33 (a) to 33 (k) if the metal is obtained by blasting	1 cum	70.00	
37			(2) Add 25% extra per cum if the metal is obtained by machine crushing excluding cost of blasting.	1 cum	25%	

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	S o Rate for 2022-23 in Rs.	Remarks
1	2	3	4	5	6	7
38			(3) Deduct Rs. /- per cum if the metal or rubble is obtained from surface stone and boulders.	1 cum	9.90	
39			(4) Add Rs. /- per cum for selection of stones and boulders from excavated spoil dumps for items 33 a to 33 k, when this addition of Rs. /- per Cum is allowed, deduction of Rs. /- per Cum mentioned under Note (3) above should invariably be made.	1 cum	17.00	
				1 cum	9.90	
			SOFT BROKEN STONE SCREENED AND FREE FROM DUST			
40	MAT-00429	33.l	- do - 40 mm size (SS 5)	1 Cum	117.15	
41	MAT-00430	33.m	- do - 50 mm size (SS 5)	1 Cum	105.70	
42	MAT-00431	33.n	- do - 60 mm size (SS 5)	1 Cum	82.85	
43	MAT-00432	33.o	- do - 65 mm size (SS 5)	1 Cum	74.30	
44	MAT-00433	33.p	- do - 75 mm size (SS 5)	1 Cum	69.50	
			HARD BROKEN STONE OF GRANITE TRAP DOLERITE AND DOLAMITE FREE FROM DUST OBTAINED BY QUARRYING WEDGING, BREAKING, BURNING AND SPLITTING (QUARTZITE AND BASALT WITH AGGREGATE IMPACT OF LESS THAN 20)			
45	MAT-00434	33a	-do- 2.36 mm to 5 mm size (IRC & MORTH)	1 cum	455.00	
46	MAT-00435	b	-do- 5 mm to 7 mm size (IRC & MORTH)	1 cum	608.00	
47	MAT-00436	c	-do- 9.5 mm to 11.2 mm size (IRC & MORTH)	1 cum	785.00	
48	MAT-00437	d	-do- 12 mm to 14 mm size (IRC & MORTH)	1 cum	888.00	
49	MAT-00438	e	-do- 19 mm to 22 mm size (IRC & MORTH)	1 cum	1092.00	
50	MAT-00439	f	-do- 25 mm to 27 mm size (IRC & MORTH)	1 cum	1086.00	
51	MAT-00440	g	-do- 40 mm to 45 mm size (IRC & MORTH)	1 cum	696.00	
52	MAT-00441	h	-do- 50 mm to 55 mm size (IRC & MORTH)	1 cum	518.00	
53	MAT-00442	i	-do- 60 mm to 63 mm size (IRC & MORTH)	1 cum	475.00	
54	MAT-00443	j	-do- 65 mm size (IRC and MORTH)	1 cum	360.95	
55	MAT-00444	k	-do- 75 mm size (IRC and MORTH)	1 cum	289.50	

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	So Rate for 2022-23 in Rs.	Remarks
1	2	3	4	5	6	7
56		1	NOTE:- Add extra Rs. /- per cum for items 33 (a) to 33 (j) if the metal is obtained by blasting	1 cum	70.00	As proposed by WR Dept.
57		2	Add 25% extra per cum if the metal is obtained by machine crushing excluding cost of blasting.	1 cum	25%	As proposed by WR Dept.
58		3	Deduct Rs. /- per cum if the metal or rubble is obtained from surface stones and boulders	1 cum	9.90	
59		4	Add Rs. /- per cum for selection of stones and boulders from excavated soil dumps for items 33 (a) to 33 (k), when this addition of Rs. /- per cum allowed deduction of Rs. /- per cum mentioned under note (3) above should invariably be made	1 cum	17.00 9.90	
			HARD BROKEN STONE OTHER THAN GRANITE SUCH AS QUARTZ, QUARTZ-NAPA AND BASALT SCREENED AND FREE FROM DUST			
60	MAT-00445	33.q	- do - 10 mm size (SS 5)	1 Cum	367.60	
61	MAT-00446		-do- 9.5 mm to 11.2 mm size (IRC and MORTH)	1 Cum	367.60	
62	MAT-00447	r	- do - 12 mm size (SS 5)	1 Cum	344.75	
63	MAT-00448		-do- 12mm to 14 mm size (IRC and MORTH)	1 Cum	344.75	
64	MAT-00449	S	- do - 20 mm size (SS 5)	1 Cum	279.05	
65	MAT-00450		-do- 19 mm to 22 mm size (IRC and MORTH)	1 Cum	279.05	
66	MAT-00451	T	- do - 25 mm size (SS 5)	1 Cum	273.35	
67	MAT-00452	U	- do - 40 mm size (SS 5)	1 Cum	161.90	
68	MAT-00453		-do- 40 mm to 45 mm size (IRC and MORTH)	1 Cum	161.90	
69	MAT-00454	V	- do - 50 mm size (SS 5)	1 Cum	142.85	
70	MAT-00455		-do- 50 mm to 55 mm size (IRC and MORTH)	1 Cum	142.85	
71	MAT-00456	33.w	- do - 65 mm size (SS 5)	1 Cum	135.25	
72	MAT-00457		-do- 60 mm to 65 mm size (IRC and MORTH)	1 Cum	135.25	
73	MAT-00458	X	- do - 75 mm size (SS 5)	1 Cum	111.45	
74	MAT-00459		- do - 75 mm size (IRC &MORTH)	1 Cum	111.45	
75	MAT-00460	Y	- do - 75 to 100 mm size (SS 5)	1 Cum	87.60	
76	MAT-00461		- do - 75 to 100 mm (IRC& MORTH)	1 Cum	87.60	
			OTHER ITEMS			
77	MAT-00462	33.z1	Laterite 40 to 75 mm (ring)	1 Cum	96.20	
78	MAT-00463	z2	kankar, hard broken kankar 40 to 75 mm (ring)	1 Cum	71.45	
79	MAT-00464	z3	Soling stone of 150 mm size of granite, trap and Dolomite varieties.	1 Cum	98.00	

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	S o Rate for 2022-23 in Rs.	Remarks
1	2	3	4	5	6	7
80			NOTE:- (1) Add extra for items to 33(z3) Rs /- Per cum, wherever quarrying is done by blasting. (2) Wherever controlled blasting is resorted to the Chief Engineer concerned shall approve the observed data in support of SS item No. 22 a to 22 c , 22g, 23	1 Cum	70.00	As proposed by WR Dept.
81	MAT-00465	z4	Soling stone of 150 mm size other than granite variety	1 Cum	72.40	
82	MAT-00466	z5	Soling Stone laterite, Kankar 150mm, surface stone	1 Cum	44.75	
83	MAT-00467	z6	Field picked metal unbroken 20 mm size	1 Cum	58.10	
84	MAT-00468	z7	- do - 25 mm size	1 Cum	43.80	
85	MAT-00469	z8	- do - 40 mm size	1 Cum	50.50	
86	MAT-00470	z9	- do - 50 mm size	1 Cum	43.80	
87	MAT-00471	z10	- do - 60 mm size	1 Cum	38.10	
88	MAT-00472	z11	- do - 80 mm size	1 Cum	33.35	
89			NOTE:- Add Rs. /- Per Cum for selection of stone and boulders from excavated spoil dumps for items 33 (Q) TO 33 Z , when this addition of Rs. /- per Cum is allowed, deduction of Rs. /- per Cum should invariably be made towards the metal or rubble if it is obtained from surface stone and boulders.		17.00	
90	MAT-00177	34	Gravel	1 Cum	149	As per WR Dept. (M 008 of Materials other than covered under Irrigation Items)
91	MAT-00473	35 a	Quarry rubbish	1 Cum	93.00	
92	MAT-00068	B	HBG Stone Chips 2.36 mm and below	1 Cum	435.00	As per WR Dept. (Sl.No.67 of Materials)
93	MAT-00027	36.a	Fine aggregate / Sand (un-screened) for Concrete & Filtering items	1 Cum	605.00	As per WR Dept. (Si. No. 27 of Materials) and will be revised as per the Govt. new sand policy
94	MAT-00028	b.	Fine aggregate / Sand (unscreened) for filling	1 cum	460.00	
95	MAT-00029	c	Fine aggregate / Sand (screened) for Mortar, Plastering items and Sand blasting items (Rs. 95/- is added towards screening charges)	1 Cum	700.00	
96	MAT-00475	37	Clay for puddle and masonry Items 38 (a) to 39 (h) As per local prevailing rates based on competitive quotations.	1 Cum	38.00	

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	S o Rate for 2022-23 in Rs.	Remarks
1	2	3	4	5	6	7
			(C) LIME AND CEMENT			
97		40 to 41(c)			As per local prevailing rates based on competitive rates	
98	MAT-00005	42	Cement excluding cost of empty cement bags	1 MT	4220	Monthly rates will be communicated by the Govt
	NOTE: (1) The rates are exclusive of VAT, Excise duty and GST 2) The price of cement will be reviewed and fixed on monthly basis and rates will be communicated separately.					
99	MAT-00476	C	Grinding lime mortar or Surkhi mortar	1 Cum	95.25	
100	MAT-00477	D	Shell lime slaked and screened	1 Cum	940.00	
101	MAT-00478	E	White cement	1 Kg.	27.95	
102			(D) MORTARS			
103		43 to 45	Items 43 to 45			
			(E) METAL AND IRON WORKS			
104			Mild steel rods 6mm dia.	1 MT	Monthly rates communicated by the Govt	
105			Mild steel flats	1 MT		
106			Mild Steel, Structural Steel, I.e., Angles, Channels and I sections.	1 MT		
107			High Yield Strength Deformed Bars/TMT bars	1 MT		
108			Mild steel plates	1 MT		
	NOTE: (1) The rates are exclusive of VAT, Excise duty and GST 2) The prices of steel will be reviewed and fixed on monthly basis and rates will be communicated separately.					
			III RATES OF WORKS			
			(A) CLEARING SITE			
109	MAT-00479	1.a	Clearing heavy Jungle	1 Sqm	3.20	
110	MAT-00480	b	Clearing light Jungle	1 Sqm	2.80	
111	MAT-00481	c	Clearing Scrub Jungle	1 Sqm	2.80	
112	MAT-00482	d	Clearing Juliflora (Prosafis) jungle including up-rooting and removing of Juliflora stumps.	1 Sqm	4.40	
113	MAT-00483	2.a.1	Cutting and removing Palmyrah trees including stacking of girth 30 to 100 cm.	Each	21.00	
114	MAT-00484	a.2	- do - 100 to 200 cm.	Each	48.00	
115	MAT-00485	2.b.1	Uprooting and removing Palmyrah stumps including stacking of girth 30 to 100 cm.	Each	51.00	

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	So Rate for 2022-23 in Rs.	Remarks
1	2	3	4	5	6	7
116	MAT-00486	b.2	- do - 100 to 200 cm.	Each	53.00	
117	MAT-00487	2.c.1	Cutting and removing date trees including stacking of girth 30 to 100 cm	Each	26.00	
118	MAT-00488	c.2	- do - 100 to 200 cm	Each	39.00	
119	MAT-00489	2.d.1	Uprooting and removing stumps of date trees including stacking of girth 30 to 100 cm.	Each	26.00	
120	MAT-00490	d.2	- do - 100 to 200 cm	Each	33.00	
121	MAT-00491	2.e 1	Cutting and removing other kind of trees including stacking of girth 30 to 100 cm	Each	33.00	
122	MAT-00492	e.2	- do - 100 to 200 cm	Each	51.00	
123	MAT-00493	e.3	- do - above 200 cm	Each	83.00	
124	MAT-00494	2.f.1	Uprooting and removing stumps of other kind of trees including stacking of girth 30 to 100 cm.	Each	26.00	
125	MAT-00495	f.2	- do - 100 to 200 cm	Each	36.00	
126	MAT-00496	f.3	- do - above 200 cm	Each	45.00	
127	MAT-00497	3.a	Uprooting and clearing prickly pear jungle	1 Sqm	2.50	
128	MAT-00498	b	- do - under 2.5 meters height including burning and burrying as directed.	1 Sqm	3.30	
129	MAT-00499	c	- do - over 2.5 meters height including burning and burrying with an initial lead of conveyance	1 Sqm	3.90	
130	MAT-00500	4.a	Removing of natchu, goobi, thooti etc., from drains, channels including clearance if not more than 1 metre depth of water with an initial lead of 10 metres and lift of 2 metres.	1 Sqm	2.10	
131	MAT-00501	b.i	Clearing alchi, tilla	1 Sq.m	4.20	
132	MAT-00502	b.ii	Removal of Jammu	1 Sq.m	3.60	
133	MAT-00503	c.i	Removal of imponea, cornea	1 Sq.m	4.00	
134	MAT-00504	c.ii	Removal of water hyacinth upto 30 cm thick.	1 Sqm	4.10	
135	MAT-00505	c.iii	- do - more than 30 cm thick	1 Sq.m	5.50	
136	MAT-00506	d	Removal of natchu, goobi, thooti etc., for every extra lead or lift over the initial lead or lift.	1 Sqm	1.50	
			(B) DISMANTLING			
		5	DISMANTLING, CLEARING AWAY MATERIALS USEFUL FOR REUSE.			
137	MAT-00507	a.i	Dry rough stone revetment for aprons and stacking within 40 metres	1 cum	65.60	
		7	Drilling holes in hard granite or sheet rock			

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	S o Rate for 2022-23 in Rs.	Remarks
1	2	3	4	5	6	7
		a)	Manually (Hand)			
138	MAT-00508	i)	20 mm dia meter	1 RM	136.00	
139	MAT-00509	ii)	25 mm dia meter	1 RM	144.00	
140	MAT-00510	iii)	36 mm dia meter	1 RM	166.00	
141		b)	Pneumatic Compressor			
142	MAT-00511	i)	20 mm dia meter	1 RM	154.00	
143	MAT-00512	ii)	25 mm dia meter	1 RM	167.00	
144	MAT-00513	iii)	36 mm dia meter	1 RM	182.00	
		8	Grouting the holes with neat cement slurry excluding cost of steel			
145	MAT-00514	i)	20 mm dia meter	1 RM	97.00	
146	MAT-00515	ii)	25 mm dia meter	1 RM	122.00	
147	MAT-00516	iii)	36 mm dia meter	1 RM	152.00	
			White Washing and Painting works			
148	MAT-00517	A	White washing and colour banding for guard and guide stones including cost of materials	each	10.00	
149	MAT-00518	B 1	Screening sand and gravel	1 cum	10.50	
150	MAT-00519	B 2	Screening chips and metal	1 cum	17.60	
151	MAT-00520	C	Removing and refixing Hectometre or Demarcation stones	each	12.65	
			(S) ROAD WORK ITEMS			
			PICKING OLD METALLED SURFACE TO DEPTH OF 40 TO 100 mm SPREADING OLD METAL AND NEW METAL SECTIONING INCLUDING EDGE BUNDS AND SUBGRADE ROLLING, SPREADING METAL INCLUDING BLINDAGE OF GRAVEL WATERING WITH AN INITIAL LEAD OF 2 HECTOMETERS AND HAND ROLLER (1.5 TO 2 TONNES) ROLLING ETC., INCLUDING BARRICADING, DIVERSION OF TRAFFIC AND WETTING THE NEW CONSOLIDATION FOR A FORTNIGHT COMPLETE			
			(For a compact thickness)			
		1 (i)	HARD METAL			

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	S o Rate for 2022-23 in Rs.	Remarks
1	2	3	4	5	6	7
152	MAT-00521	A	40 mm thickness	10 sqm	70.00	
153	MAT-00522	B	50 mm thickness	10 sqm	74.00	
154	MAT-00523	C	75 mm thickness	10 sqm	80.30	
155	MAT-00524	D	100 mm thickness	10 sqm	87.00	
156		1 (ii)	(For compact thickness of soft metal)			
157	MAT-00525	A	50 mm thickness	10 sqm	53.80	
158	MAT-00526	B	75 mm thickness	10 sqm	63.90	
159	MAT-00527	C	100 mm thickness	10 sqm	70.10	
		5	Picking old metalled surface to a depth of 40 to 100 mm and spreading metal including watering with an initial lead of 2 Hectometers and rolling with power rollers watering and spreading gravel for blindage and power roller rolling including hire charges of power roller(8 to 10 T) barricading and diversion of traffic and wetting the new consolidation for a fortnight(for compacted thickness of)			
			HARD METAL			
160	MAT-00528	5 (a)	40 mm thick ness	10 sqm	185.00	
161	MAT-00529	(b)	50 mm thick ness	10 sqm	210.00	
162	MAT-00530	(c)	75 mm thick ness	10 sqm	231.00	
163	MAT-00531	(d)	100 mm thick ness	10 sqm	248.80	
164	MAT-00532	(e)	150 mm thick excluding hire charges	10 sqm	445.40	
165	MAT-00264		Gelatin(For MORTH data, for works of state & national high ways only)	Per Kg	68.00	As per WR Dept. (M 104 of Materials other than covered under Irrigation Items)
166	MAT-00021		Electric Detonators(For MORTH data, for works of state & national high ways only)	each	12.00	As per WR Dept. (Si. No. 21 of Materials of WR Dept.)
167	MAT-00273		Hot applied thermoplastic compound(For MORTH data, for works of State & National high ways only)	Per litre	Rate as per local competitive quotations	As per WR Dept. (M 118 of Materials other than covered under Irrigation Items)
168			Reflectionising glass beads of 2 mm thick(For MORTH data, for works of State & National high ways only)	Per Kg		deleted
169	MAT-00533		Road marking paint confirming to IS 164(For MORTH data, for works of State &	Per Kg	152.15	

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	S o Rate for 2022-23 in Rs.	Remarks
1	2	3	4	5	6	7
			National high ways only)			
170		n	Labour charges for laying filters with coarse aggregate.	1 cum	55.30	
171		o	Labour charges for laying filter with sand.	1 cum	30.70	
172			Fly Ash	1 cum		deleted
173	MAT-00003		Binding Wire	1 Kg	70.00	As per WR Dept. (M 072 of Materials other than covered under Irrigation Items)
174	MAT-00536		Jute rope	Mtr	8.35	
175	MAT-00537		De bonding strips	Mtr	8.55	
176	MAT-00538		Selent	Ltr	53.95	
177	MAT-00539		Poly sheet 125 microns	1 sqm	15.25	
178	MAT-00540		Rural water rate	1 kl	95.00	As per WR Dept. (M 189-b of Materials other than covered under Irrigation Items)
179	MAT-00252		Selected Earth for Embankment & shoulders for Road & Bridge works as per MoRTH Spec. No. 305 (5th Revision) obtained from Private Land	1 Cum	130.00	As per WR Dept. (M - 092 of Materials other than covered under WR work Items)

HIRE CHARGES OF PLANT AND MACHINERY

**HIRE CHARGES OF PLANT & MACHINERY FOR
ROAD & BRIDGE WORKS FOR THE YEAR 2021-22**

Sl. No.	CFMS Code	Description		Unit	S o Rate for 2022-23 in Rs.	Remarks
		Machine	Activity			
1	2	3	4	5	6	7
1	HIR-00008	Dozer(D 80)	Spreading	Per Hour	3031.80	As per WR Dept. (S.No.8)
			Cutting			
			Cleaning			
2	HIR-00072	Dozer (D50)	Spreading Cutting Cleaning	Per hour	1907.00	
3	HIR-00073	Mortor Grader	Clearing	Per Hour	3722.00	
			Spreading			
			GSB			
			WMM			
4	HIR-00052	Hydraulic Excavator	Soil Ordinary	Per Hour	3483.70	As per WR Dept. (S.No.52)
			Soil Marshy			
			Soil unsuitable			
5	HIR-00074	Front end loader	Soil loading	Per Hour	1983.00	
			Aggregate loading	Per Hour		
6	HIR-00054	Tipper- 5.5 Cum	Transportation of soil, GSB, WMM, Hot mix etc	Per Hour	1199.40	As per WR Dept. (S.No.54)
				Per T-Km	8.30	
7	HIR--00062	Vibratory roller 8 tonne	Earth/Soil, GSB,	Per Hour	3479.20	As per WR Dept. (S.No.62)
			WMM			
8	HIR-00050	Smooth wheeled roller 8 tonne	Soil compaction ,BM compaction	Per Hour	1726.10	As per WR dept. (S.No.50)
9	HIR-00064	Water tanker 8 Kilolitre	Water transport	Per Hour	1168.50	As per WR Dept. (S.No.64)
10	HIR-00076	Water tanker 6 Kilolitre	Water transport	Per Hour	806.00	
11	HIR-00077	Tractor	Pulling	Per Hour	521.00	
12	HIR-00078	Tractor with rotavator	GSB mixing @ site	Per Hour	532.00	
13	HIR-00079	Tractor with ripper attachment	Scarifying	Per Hour	532.00	
14	HIR-00002	Air Compressor 5 cmm(electric)	General purpose	Per Hour	612.70	As per WR Dept. (S.No.2)
15	HIR-00080	Wet mix plant 60 TPH	Wet mix	Per Hour	1945.00	
16	HIR-00081	Mechanical broom Hydraulic	Surface cleaning	Per Hour	446.00	
17	HIR-00082	Bitumen Pressure Distributor	Applying bitumen tack coat	Per Hour	1870.00	
18	HIR-00083	Emulsion Pressure Distributor	Applying emulsion tack coat	Per Hour	1052.00	

Sl. No.	CFMS Code	Description		Unit	S o Rate for 2022-23 in Rs.	Remarks
		Machine	Activity			
1	2	3	4	5	6	7
19	HIR-00084	Hot mix Plant – 120 TPH capacity	DBM/BM/SDC /Premix	Per Hour	34508.00	
20	HIR-00085	Hot mix Plant – 100 TPH capacity	DBM/BM/SDC /Premix	Per Hour	29614.00	
21	HIR-00086	Hot mix Plant – 60 TPH capacity	DBM/BM/SDC /Premix	Per Hour	26556.00	
22	HIR-00087	Hot mix Plant – 40 to 60 TPH capacity	DBM/BM/SDC /Premix	Per Hour	23495.00	
23	HIR-00088	Paver Finisher Hydrostatic with sensor control 100 TPH	DBM/BM/SDC /Premix	Per Hour	3815.00	
24	HIR-00089	Paver finisher Mechanical 100	Paving of WMM, paving of DLC	Per Hour	2805.00	
25	HIR-00090	Hydraulic Chip Spreader	Surface dressing	Per Hour	3200.00	
26	HIR-00091	Tandem Road roller	Rolling of Asphaltic surface	Per Hour	2165.00	
27	HIR-00092	Pneumatic Road roller	Rolling of Asphaltic surface	Per Hour	1768.00	
28	HIR-00093	Pot-Hole repair machine	Repair of pot-holes	Per Hour	1053.00	
29	HIR-00094	Bitumen boiler oil fired	Bitumen Spraying	Per Hour	256.00	
30	HIR-00095	GSB Plant 50 Cum	Producing GSB	Per Hour	1425.00	
31	HIR-00096	Mastic Cooker	Mastic wearing coat	Per Hour	89.00	
32	HIR-00097	Batching and Mixing Plant (a) 30 Cum capacity	Concrete mixing	Per Hour	1530.00	
	HIR-00010	(b) 15 - 20 Cum capacity	Concrete mixing	Per Hour	1232.40	As per WR Dept. (S.No.10)
33	HIR-00001	Transit mixer	Transportation of concrete mix	Per Hour	2619.50	As per WR Dept. (S.No.1)
34	HIR-00071	Concrete pump of 45 and 30 cum	Pumping of Concrete	Per Hour	1647.50	As per WR Dept. (S.No.70)
35	HIR-00098	Cranes				
		(a) 80 tonnes	Lifting purpose	Per Hour	1539.00	
	HIR-00099	(b) 35 tonnes			1033.00	
	HIR-00100	(c) 3 tonnes			501.00	
	HIR-00101	(d)Crane with grab bucket 0.75 cum	Well foundation	Per Hour	2693.00	
	HIR-00102	(e)Crane with grab bucket 1 cum	Well foundation	Per Hour	4403.00	
36	HIR-00014	Concrete bucket 1.50 cum	For pouring concrete	Per Hour	15.10	As per WR Dept. (S.No.14)
37	HIR-00103	Kerb casting machine	Kerb making	Per Hour	599.00	

Sl. No.	CFMS Code	Description		Unit	S o Rate for 2022-23 in Rs.	Remarks
		Machine	Activity			
1	2	3	4	5	6	7
38	HIR-00018	Concrete mixer (a)0.28 cum	Concrete mixing	Per Hour	667.50	As per WR Dept. (S.No.18)
	HIR-00104	(b) 1.0 cum				
39	HIR-00105	Piling rig with bantonite pump	0.75 m dia to 1.20 m dia boring attachment	Per Hour	7150.00	
40	HIR-00106	Concrete paver finisher with 40 HP motor	Paving of concrete surface	Per Hour	3787.00	
41	HIR-00107	Integrated stone crusher	Crushing of spalls 100 TPH	Per Hour	11375.00	
	HIR-00108		Crushing of spalls 200 TPH	Per Hour	23985.00	
42	HIR-00109	Pre stressing jack with pump and access	Stressing of steel wires/ stands	Per Hour	185.00	
43		Generator				
	HIR-00110	250 KVA	Generation of electric energy	per hour	2522.00	
	HIR-00111	125 KVA		per hour	1800.00	
	HIR-00112	100 KVA		per hour	1536.00	
	HIR-00023	30 KVA		per hour	1344.10	As per WR Dept. (S.No.23)
44	HIR-00113	Pneumatic sinking of Plants	Pneumatic sinking of wells	Per K.m.	6648.00	
45	HIR-00058	Truck 5.5 cum per 10 tonnes	Material transport	Per her	1155.50	As per WR Dept. (S.No.58)
46	HIR-00114	Road marking Machine	Road marking	Per Hour	158.00	
47	HIR-00114	Mobile slurry seal equipment	Mixing and laying slurry seal	Per Hour	1471.00	
48	HIR-00115	Plate compacter	For compacting in medians	Per Hour	69.00	
49	HIR-00022	Drilling equipment	For drilling	Per Hour	1106.10	As per WR Dept. (S.No.22)
		<i>Note: The above hire charges of Machinery & Plant includes crew, oils, conveyance of Machinery to site and all other incidental charges</i>				

SoR – 2022-23

Part – IV
PUBLIC HEALTH ITEMS

PUBLIC HEALTH ITEMS			
Sl. No.	Description	Unit	SoR for 2022-23
1	2	3	4
1	RATES OF LABOUR (SKILLED WORKMEN)		
	1. Caulker	Per Day	As per Labor rates of SoR
	2. Plumber 1st Class	Per Day	
	3. Plumber 2nd Class	Per Day	
	4. Sewer Cleaner	Per Day	
	5. Well Sinker	Per Day	
	6. Pipe line Fitter 1st Class	Per Day	
	7. Pipe line Fitter 2nd Class	Per Day	
	8. Pump Operator	Per Day	
	9. Bore Mechanic	Per Day	
	10. Light Vehicle Driver	Per Day	
	Note: The rate at relevant item in common SoR is applicable for occasional employment.		
2	RATES FOR EARTH WORK :		
a.	Earth work excavation in all types soils for pipe lines, for drainage and water supply, where the depth is more than 1.5 times the width.		To follow the relevant items of Irrigation work items as per AP. Standard data
b.	Earth work excavation in all types soils for pipe lines, for drainage and water supply, where the depth is less than 1.5 times the width.		
c.	Earth work excavation in all types soils for open trenches, for valve pits, inspection chambers, etc.		
3. a.	Excavation of pipe line trenches for drainage and water supply in rock requiring blasting with initial lead and lift including cost of blasting materials where the depth is more than 1.5 times the width, in places where there is no habitation.		

b.	Excavation of pipe line trenches for drainage and water supply in rock requiring blasting with initial lead and lift including cost of blasting materials where the depth is less than 1.5 times the width, in places where there is no habitation.		
c.	Cutting rock for pipe line trenches by hammers, knuckles and chisels including stacking where the depth is 1.5 times or more than the width.		
d.	Cutting rock for pipe line trenches by hammers, knuckles and chisels including stacking where the depth is less than 1.5 times the width.		
e.	Cutting rock for works other than pipe lines trenches by hammers, knuckles and chisels including stacking.		
f.	For controlled blasting at restricted places		
	NOTE: - Rock should be measured in solids. In case it is not possible, stacks should be made in which case 40% for voids to be deducted from the stack measurements.		
4	Loading or unloading materials such as C.I. Pipes, PVC Pipes, AC Pressure Pipes, DI Pipes, SW Pipes, PVC Pipes, A.C/Specials less than 300 mm dia. Up to 4 m in length including stacking.		
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	To follow as per AP. Standard data
b.	A.C. Pipes & Specials	Per Tonne	
c.	Stoneware pipes & Specials	Per Tonne	
d.	P.V.C. Pipes and fittings	Per Tonne	
5	Loading or unloading materials such as C.I. Pipes, DI pipes, SW pipes, AC pressure pipes & fittings/ specials from 300 mm to 600 mm dia. Up to 4 m in length including stacking.		
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	To follow as per AP. Standard data
b.	A.C. Pipes & Specials	Per Tonne	

c.	Stoneware pipes & Specials	Per Tonne	
6	Loading or unloading materials such as C.I. Pipes, DI pipes, PVC pipes, AC pipes less than 300 mm dia., above 4 m in length including stacking.		
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	To follow as per AP. Standard data
b.	A.C. Pipes & Specials	Per Tonne	
c.	P.V.C. Pipes and fittings	Per Tonne	
7	Loading or unloading materials such as C.I. Pipes, DI pipes, AC pipes from 300 mm to 600 mm above 4 m in length including stacking.		To follow as per AP. Standard data
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	
b.	A.C. Pipes & Specials	Per Tonne	
	Note:- For loading and unloading the above materials at Railway Stations, the rates may be adopted based on the competitive quotations or the hummable charges if prevailing.		
8. a.	Lowering C.I. / D.I. Pipes (all classes) and specials (fittings) with s/s ends carefully into trenches and laying them true to alignment and gradient including all sundries but excluding cost and conveyance of pipes from source of supply (Ref to specifications. BIS No.3114/1994)		To follow as per AP. Standard data
	Diameter of Pipe/Fittings in mm :		
	80mm to 1000mm dia.	Per Meter	

PUBLIC HEALTH ITEMS				
Sl. No.	Description	Unit	Code	SoR rates for 2022-23
1	2	3	4	5
8. b.	Lowering C.I. / D.I. Pipes (all classes) and specials (fittings) with flanged ends carefully into trench and laying them true to alignment and gradient including all sundries but excluding cost and conveyance of pipes from source of supply. (Reference to specifications. BIS No.3114/1994)			
	DIAMETER OF PIPE/Fittings in mm :			To follow as per AP. Standard data
	80mm to 750mm dia.			
	800	Per Meter	LAB-00587	700
	900	Per Meter	LAB-00588	910
	1000	Per Meter	LAB-00589	1183
	1100	Per Meter	LAB-00590	1456
	1200	Per Meter	LAB-00591	1731
9. a.	Jointing CI /DI pipes & fittings with s/s ends including cost of pig lead, Spun yarn and sundries such as cost of fuel for melting lead, filling with water with lead up to 500m and testing to required pressure complete. (Reference to specifications. BIS No.3114/94/12288:1997)			
	DIAMETER OF PIPE/Fittings in mm :			To follow as per AP. Standard data
	80mm to 800mm			
	900	Each Joint	LAB-00592	18290
	1000	Each Joint	LAB-00593	20434
	1100	Each Joint	LAB-00594	22574
	1200	Each Joint	LAB-00595	24717
9. b.	Jointing C.I., D.I. pipes and fittings with rubber gasket (push-on-joint),excluding the cost of the gasket but including all sundries filling with water, with a water lead up to 500m and testing to required pressure, etc. complete (Reference to specifications IS			

	3114/1994/12888/1997)			
	Diameter of Pipe/Fittings in mm :		To follow as per AP. Standard data	
	80mm to 1000mm dia.	Each Joint		
10	Jointing CI pipes, fittings and valves with flanged ends including cost of jointing materials such as bolts, rubber insertion, white lead including filling with water, with lead up to 500 meters and testing to required pressure complete. (Reference to specifications. BIS No.3114/1994.)			
	DIAMETER OF PIPE/Fittings/ valve in mm :			
	80mm to 750mm dia.	Each Joint	To follow as per AP. Standard data	
	800	Each Joint	LAB-00596	7741
	900	Each Joint	LAB-00597	9104
	1000	Each Joint	LAB-00598	10484
	1100	Each Joint	LAB-00599	11898
	1200	Each Joint	LAB-00600	13364
11a	Lowering the RCC plain ended pipes carefully into the trench laying them true to alignment and gradient, jointing RCC pipes with cement joints including curing, the cost of jointing materials i.e., Cement Mortar (1:1.5), hemp yarn etc., and testing including filling with water with a water lead up to 500 Meters excluding cost of rubber rings as per BIS No.783/85.			
	per every 25 mm dia.	Per Meter	LAB-00601	27
11b	Lowering the RCC S/S pipes carefully into the readymade trenches laying them true to alignment and gradient, jointing with rubber rings and testing including filling with water with a water lead up to 500 meters including cost of rubber rings as			

	per BIS No. 783/1985			
	per every 25 mm dia.	Per Meter		
	80mm to 600mm		To follow as per AP. Standard data	
	700		LAB-00602	423
	800		LAB-00603	508
	900		LAB-00604	609
	1000		LAB-00605	730
12	Lowering and Jointing G.I. pipes and specials / fittings including excavation of trench of 0.5m width and 0.50 m depth in all soils except rock requiring blasting and refilling trenches after laying and jointing pipes and also including cost of jointing materials but excluding the cost of pipes. Reference to specifications. BIS No.783/85			
a	G.I. Pipes :Dia. in mm		To follow as per AP. Standard data	
	15mm to 150mm	Per Meter		
12-b	Laying, jointing of PVC/HDPE pipes as per BIS No.7634 part-III/75 for PVC and BIS No.7634 part-II/75 for HDPE pipes including trench excavation and refilling.			
	DIA in mm			
	50	Per Meter	LAB-00606	43
	40	Per Meter	LAB-00607	43
	32	Per Meter	LAB-00608	43
	25	Per Meter	LAB-00609	39
	20	Per Meter	LAB-00610	37
	NOTE: - (i) The above rates are applicable for the works in District only.			
	(ii) If the depth of excavation is more than 0.5 m separate rates to be worked out.			
13	Lowering and laying in readymade trench true to alignment and gradient, jointing,			

	and testing of Stone ware pipes including cost of jointing material such as cement mortar (1:1) proportion and hemp yarn but excluding cost and conveyance of pipe. (Reference to specifications BIS No. 6530/72)		
	Dia. of Pipes in mm		To follow as per AP. Standard data
	100mm to 450mm	Per Meter	
14	Lowering, Laying, Jointing and Testing to hydraulic test pressure including cost of water with minimum water lead of 500m for UPVC pressure pipes in readymade trenches to alignment and gradient including all sundries but excluding cost & conveyance of pipes from source of supply and jointing material as per BIS No: 7634 part-III-1975.		
	Dia. Of pipe	Per Meter	To follow as per AP. Standard data
	63 to 315mm		
15	Laying and jointing of HDPE pipes by butt fusion welding as per IS: 7634 – part-II/1975 as amended from time to time to the alignment and gradient and testing the pipeline to the required pressure.		
	Outer Dia. of pipes in MM		
	63 to 355 mm dia.		To follow as per AP. Standard data
	400		LAB-00611 301
	450		LAB-00612 334
16	Lowering, keeping in position and fixing D.I. sluice valves (with cap / with hand wheel & Reflex valves) excluding cost of bolts, nuts, rubber insertion, sluice valve and tail pieces		
	<u>Dia. of Valve in mm.</u>		To follow as per AP. Standard data
	80mm to 600mm	Each	
17	Labor charges for fixing <u>Air valves</u> including boring the		

	mains and threading the bore fixing nipple etc., complete.			
	Dia. of Air valve in mm.			
	25	Each	To follow as per A.P. Standard data	
	40	Each		
	50	Each	LAB-00613	217
	65	Each	LAB-00614	230
	80	Each	LAB-00615	249
	100	Each	LAB-00616	295
	125	Each	LAB-00617	460
	150	Each	LAB-00618	504
18	Labor charges for fixing Kinetic Air Valves with isolating Sluice valves, Double Air valves/ Air Cushion valve excluding cost of jointing materials such as bolts, nuts and rubber insertions etc., complete.			
	Dia. of Air valve in mm.			
	25	Each	LAB-00619	208
	40	Each	LAB-00620	235
	50(Double Air valves)	Each	LAB-00621	250
	65	Each	LAB-00622	268
	80	Each	LAB-00623	293
	100	Each	LAB-00624	341
	125	Each	LAB-00625	534
	150	Each	LAB-00626	584
19	Uprooting C.I. / DI Pipes by melting the lead, loosening the joints, scraping the pipes, hoisting and keeping within a lead of 10 m but excluding earth work excavation and refilling.			
	80mm to 600mm	Per Meter	To follow as per AP. Standard data	
20	Uprooting of RCC pipes including breaking the collars, loosening the joint, separating the pipes, hoisting and keeping within a lead of 10 m but excluding earthwork excavation and refilling.			
	100mm to 300mm	Per Meter	To follow as per AP. Standard data	
21	Removing old G.I. pipes and specials / fittings and cleaning, scraping the pipes, hoisting and			

	keeping within 50m lead but excluding earth work excavation of trenches and refilling.			
	Dia. of Pipes in mm			
	15mm to 50mm	Per Meter	To follow as per AP. Standard data	
22	Cutting C.I./ DI Pipes without water in mains Dia. of pipes in mm.			
	Dia. of Pipes in mm			
	80mm to 600mm	Each cut	To follow as per AP. Standard data	
	680	Each cut	LAB-00627	650
	700	Each cut	LAB-00628	667
	750	Each cut	LAB-00629	720
	800	Each cut	LAB-00630	765
	900	Each cut	LAB-00631	859
	1000	Each cut	LAB-00632	955
	1100	Each cut	LAB-00633	1052
	1200	Each cut	LAB-00634	1148
23	Cutting A.C. Pipes without water in mains Dia. of pipes in mm.			
	Dia. of Pipes in mm			
	80	Each cut	LAB-00635	42
	100	Each cut	LAB-00636	42
	125	Each cut	LAB-00637	42
	150	Each cut	LAB-00638	42
	200	Each cut	LAB-00639	44
	250	Each cut	LAB-00640	72
	300	Each cut	LAB-00641	72
	350	Each cut	LAB-00642	89
	400	Each cut	LAB-00643	98
	450	Each cut	LAB-00644	121
	500	Each cut	LAB-00645	135
	600	Each cut	LAB-00646	149
24	Drilling and tapping CI/ DI / GI Main and fixing brass screw down ferrule and plug.			
	10 mm to 20mm	Each Tapping	To follow as per AP. Standard data	
	25 mm to 40mm	Each Tapping		
25	Cutting road surface including stacking of excavated materials for pipe line trench work.			
	a) Cutting open B.T. road surface (as well as asphalt concrete up to	10 Sqm	LAB-00647	976

	75 mm thick) including water bound macadam			
	b) Cutting open C.C. road surface with concrete saw cutter and removal with Breaker	1 Cum	LAB-00648	3090
	c) Cutting open water bound macadam road including soiling	1 Cum	LAB-00649	303
26	Bailing out water.(For PH item)			
	a) Bailing out water from the pipe line trenches with oil engine driven pump sets, including hire charges, fuel charges and wages for Driver and Helper up to 5HP capacity pumps.	HP/Hour	LAB-00650	To adopt the rate arrived for 5HP capacity pump based on the WR department data.
	b) Bailing out water from the pipe line trenches with Electric Driven pump set including hire charges, current charges and wages for Driver and Helper up to 5HP capacity pumps.	HP/Hour	LAB-00651	To adopt the rate arrived for 5HP capacity pump based on the WR department data.
	c) For capacity of Pumps more than 5HP			
	A. Water lifting charges using Electrical driven pump			
	i. per HP hr rate(including contractors profit and overhead charges of 13.615%	Per HP hr	LAB-00652	Rs.11.25/-
	ii. Other expenses in terms of Mazdoor, pump operator and pipe laying and dismantling(including contractors profit and overhead charges of 13.615%) per hr	Per hr	LAB-00653	Rs.183.19/-
	Total hire charges of Electrically driven dewatering pump per hour	Per hr	= (11.25xhp capacity)+183.19	
	B. Water lifting charges using Diesel driven pump			
	i. per hphr rate(including contractors profit and overhead charges of 13.615%	Per hphr	LAB-00655	Rs.28.92/-
	ii. Other expenses in terms of Mazdoor, pump operator and	Per hr	LAB-00656	Rs.223.40/-

	pipe laying and dismantling(including contractors profit and overhead charges of 13.615%) per hr			
	Total hire charges of Diesel driven dewatering pump per hour	Per hr	= (28.92xhp capacity)+223.40	
	NOTE:- The rate is payable on the total H.P. hours ignoring fractions less than 0.5 HP hour and rounding off 0.5 HP hour or more to the next higher integer.			
27	Shoring and strutting of trenches for water and sewer main			
	a) Single Staging from (0 to 2.5 Mts.)	1 Sqm of Shoring area	To follow as per AP. Standard data	
	b) Double staging from (2.5 m to 4.5 Mts.)	1 Sqm of Shoring area		
28	Barricading, hoarding, lighting and watching etc., for water supply and sewerage works for trenches.	1 RMT	To follow as per AP. Standard data	
29	Excavation of trenches for infiltration galleries, siphon lines and connecting mains in all soils under water including all leads, lifts, shoring, strutting, bailing out water and removal of shoring and strutting materials, after completion of pipe line work.			
	a) 0 to 1 m deep under water.	10 Cum	LAB-00658	15389
	b) 1 to 2 m deep under water.	10 Cum	LAB-00659	22044
	c) 2 to 5 m deep under water.	10 Cum	LAB-00660	33086
	d) Beyond 5 m deep under water for every additional 1 m depth over item 'c'	10 Cum	LAB-00661	6321
	NOTE:- The above rates do not include rock requiring blasting or chiseling			
30	Laying and jointing <u>perforated RCC pipes</u> inclusive of bailing out water and jointing with cement fillets and all other incidental charges for infiltration gallery inclusive of bailing out water by pumping to keep the trench reasonably dry to facilitate the work excluding cost of perforated pipes and collars.	Per Meter	LAB-00662	46
	Per every 25 mm dia.			
31	Centering and scaffolding charges for RCC members			

	including all materials and labor charges for forming and dismantling.			
a)	for RCC Elevated Service Reservoir of staging up to 15 Meter below L W L.	One Sqm of Centering area		
	1) Slabs for thickness (150 mm to 300 mm)		LAB-00663	4476
	2) Slabs for thickness above 300 mm		LAB-00664	extra for every 50mm thickness increase Rs.473/-
	3) Side walls curved surfaces. (rate is for both sides centering)		LAB-00665	3383
	4) Side wall straight surfaces. (rate is for both sides centering)		LAB-00666	3009
	5) Dome.		LAB-00667	3667
	6) Roof Slab.		LAB-00668	2051
	7) Column braces and beams		LAB-00669	1510
	8) Circular braces, ring beams & circular column.		LAB-00670	1657
	Note: - For RCC ELSR of staging above 15 m, the % increase in these rates shall be as follows. 15-18 m ---- 9% 18-21m --- 15% 21-24 m --- 21% 24 m -27m --27% above27m --- 30%			
Note: The Centering charges for item No's.3 & 4 are for both the faces of the respective numbers. The measurement of centering charges shall be in "Sqm" for one face only and the centering charges given are for two faces of centering.				
b)	For Ground level works :-			
	1) Slabs	1 Sqm	To follow as per AP. Standard data	
	2) Beams & Lintels	1 Cum		
	3) Sun shades	1 Sqm		
	4-a) RCC vertical walls of plane surface including open drains of 600mm size and above.	1 Sqm of centering area	LAB-00671	500/Sqm
	4-b) VCC vertical walls of plane surface including open drains of 600mm size and above.	1 Sqm of centering area	LAB-00672	490/ Sqm
	5) RCC vertical walls of curved faces	1 Sqm of centering area	LAB-00673	635/ Sqm

32	Lift or delift of materials :			
	a) Lifting of cement concrete for RCC elevated reservoir. For every 1m height or part thereof over the initial lift of 3 m	1 Cum	LAB-00674	186
	b) Delifting the materials such as stones, concrete etc., for concrete below ground level for construction of masonry ground level reservoirs, construction of ground level reservoirs, inspection wells, test wells and sump wells etc., for every 1 m depth or part there of beyond the initial depth of 3 meters from ground level.	1 Cum	LAB-00675	56
39	(a) Extra allowance for isolated scattered works viz., valve pits / chambers, public fountains, meter pits and manholes, delivery cistern etc., complete.	Each		30% extra over the cost of chamber.
	(b) Repairs to the existing mains, interconnections, replacement of valves/specials etc., including the cutting, jointing, bailing out of water, drying, earth work excavation etc., complete.			100% extra over the cost of work
40	Removal of wet silt and sludge by manual means from sullage drains with aid of baskets and vessels.	10 Cum	LAB-00676	3158
41	Well sinking in sandy and other loose soils under water either by manual labor, divers, or dredgers, weighting the top of staining to assist sinking etc., including dewatering and other incidental charges such as hire charges for mechanical equipment etc.,			
	Up to 2 m below GL/m	Per meter	To adopt as per Standard data	
	From 2 to 4 m below GL/m	Per meter		
	From 4 to 6 m below GL/m	Per meter		
	From 6 to 8 m below GL/m	Per meter		
	From 8 to 10 m below GL/m	Per meter		

42	Sinking in Hard strata other than rock but in soils like limestone, gravel, clay under water including, pumping dewatering, hire charges for mechanical equipment etc., complete.		Observed Data	
43	Rates for OHSRs/ELSRs including fixtures with a staging of 15 m, without Seismic analysis.			
a	500 Kilo liters	Per liter	LAB-00677	21.61
b	1000 Kilo liters	Per liter	LAB-00678	17.95
c	1500 Kilo liters	Per liter	LAB-00679	16.18
d	2000 Kilo liters	Per liter	LAB-00680	14.08
e	2500 Kilo liters	Per liter	LAB-00681	13.20
	1) The above rates are arrived with base rate of Cement Rs.3680/- per MT (as per G.o.Ms.No.22 Dt:13-04-2020 of YSR NIRMAN) & Steel Rs 68000/- per MT(Fe 500) (BoCE rates for the month of March-2022) and as per sand rates finalized by the BoCE's& communicated vide Lr. No .ENC/IW/SE(P&M)/EE.1/DEE.2/AEE(K)/SoR 2019-20/VOL-4 Dt:25-10-2019.			
	2) All concrete components shall be designed with M30 Design Mix proportion.			
	3) For intermediate capacities proportional rates shall be adopted.			
	4) The foundations shall be designed for Annular Raft Footings. The above rates are applicable for Elevated Level Services Reservoirs / OHSRs for <u>SBC of 15 T/Sqm.</u>			
	a) For every decrease of 2.50 T/Sqm of SBC, the rate shall be increased by <u>2.50% on basic rate.</u>			
	b) For every increase of 2.5 T/Sqm of SBC, the rate shall be decreased by <u>1.0% on basic rate up to 20 T/Sqm</u>			
	c) For SBC 10T/Sqm to 7.5 T/Sqm, solid raft shall be provided and for solid raft the rate shall be increased by <u>10% on basic rate.</u>			
	d) For SBC 7.5 T/Sqm to 5 T/Sqm, solid raft shall be provided and for solid raft the rate shall be increased by <u>15% on basic rate.</u>			
	e) For SBC value of less than 5 T/Sqm, soil improvement shall be adopted, for which additional payment shall be made as per field condition.			
	5) For staging less than 15 m, the rate shall be decreased by Rs.0.05 paisa on basic rate per liter per every Meter decrease in staging.			
	6) For staging above 15 m, the rate shall be increased by Rs.0.10 paisa on basic rate per liter per every Meter additional staging.			
	7) The above rates shall be increased / decreased due to increase/decrease in the cost of cement by Basic rate x $\{(Rc-3680)/3680\} \times 0.07$ Rc = Rate of Cement (Rs per MT) at the time of preparation of estimate.			
	8) The above rates shall be increased / decreased due to increase/decrease in the cost of Steel by Basic rate x $\{(Rs-68000)/68000\} \times 0.2$ Rs = Rate of Steel (Rs per MT) at the time of preparation of estimate.			

	9) a) Rate inclusive of three coats of epoxy paint Food Grade of best quality to inner surface of the Reservoir including roof.
	b) The rate inclusive of 2 coats of weather proof emulsion painting for external surfaces, lettering, all required fixtures, Pipes, Pipe specials, valves of DI material, Valve chambers etc., for pipe connections including cost of pipes, specials and valves as per departmental designs and drawings.
	10) For tribal/Agency / Rural area, the above rates as arrived up to shall be increased by 10%.
	11) The above rates adopted for a wind pressure up to "250 kg/Sqm". For every 100 kg/Sqm decrease in wind pressure, the rate shall be decreased by 5%
	12)
	a) The Basic rate is adopted by considering the design for Seismic forces for Zone- II only of seismic zones.
	(b) The basic rates shall be increased by 15 % for Zone-III of seismic zones.
	13-(a). The ELSR/OHSR shall be designed with minimum of two rows of columns for capacities above 500 KL & up to 1000KL.
	13-(b). The ELSR/OHSR shall be designed with minimum of three rows of columns for capacities above 1000KL.
	14. The shaft type staging with slip form can also be provided with proper approval from competent authority without any additional cost.
	15) The basic rate is inclusive of following <u>Fixtures</u>
	i) Pipe connections & Specials with D.I materials
	(a) All pipe connections for Inlet, Out let, Over Flow, Scour pipes shall be provided with D/F DI material. (b) The Valves for above pipe connections also shall be of DI material of PN 16 duty confirming to the specification of SoR item No.28 (c) All specials such as Bends, Tees, Reducers, Duck foot Bends, Bell mouths etc., Shall be of DI material.
	II) The sizes of the verticals for ELSR/OHSR shall be:
	a) For 500 KL to 750 KI ELSRs Inlet Pipe - 300mm dia. Out let Pipe - 350mm dia. DI valves – 2 No's Over Flow pipe - 350m dia. Scour Pipe - 200mm dia.
	b) For 800 KL to 1500 KI ELSRs Inlet Pipe - 400mm dia. Out let Pipe - 450mm dia. DI valves – 2 No's Over Flow pipe - 450m dia. Scour Pipe - 200mm dia.
	c) For above 1500 KL to 2500 KI ELSRs Inlet Pipe - 400mm dia. Out let Pipe - 500mm dia. DI valves – 2 No's

	<p>Over Flow pipe - 500mm dia. Scour Pipe - 200mm dia. Note: Any deviation from the above sizes as per design, shall be paid or recovered.</p>
	(iii) Manhole Frames & Covers
	a) All man hole Frames & Covers shall be made of CI/DI materials with min. size of 0.60mX 0.60m - For Roof & Valve Chambers.
	iv) CI/D.I Double Swan neck ventilators (min. of 150mm dia.) shall be provided in top dome and slab with mosquito/fly proof nets - 4Nos.
	v) RCC Finial ventilator with fly/bird protection with GI mesh - 1 No.
	vi) RCC precast ladders of 0.60 m width - 2 Nos.
	vii) RCC dog legged stair case of 1.00 m flight width and 1.20 m landing width R.C.C hand railing of 1.0 m height – 1 No
	viii) The staircase shall be enclosed with brick masonry walls on three sides and collapsible MS gate on front side up to 1 st brace level, to prevent unauthorized entry.
	ix) Construction of R.C.C valve chambers as per Standard Drawings with RCC cover slab fixed with CI/DI manhole Frame & Cover with lock and Key arrangement. The Mix shall not be less than VRCC M 20 grade with 150mm thick side walls, 150mm thick top slab, 150mm thick base slab over base course of 100mm thick (1:4:8) prop.
	x) Balcony of 1.00 m width at floor slab level / middle ring beam level by using Stainless Steel pipe of grade 304 hand railing up to 1.20 m height, with top railing of 40mm dia. pipe & middle railing of 25mm dia. and verticals with 40mm dia. at an interval not more than of 1.00m c/c.
	xi) Water Level Indicator of reputed make – Digital type (1 No) and Conventional type (1 No)
	xii) Lightning Arrestor with all its accessories complete including earthing, with relevant IS Codes - 1 No.
	xiii) Compound wall: Construction of compound wall including ornamental M.S.Gate of size 3.0 X 2.40m is included in the basic rate of ELSRs. Length of compound wall hall is minimum of 150m. Min. height of the compound wall shall be 1.80m above plinth and thickness 230mm in brick masonry in CM (1:6).The compound wall shall be constructed including earth work excavation in all types of soils for plinth beam of 230mm X 300mm and 0.75X0.75X1.20m size for column footing portions. The footings shall be of 0.75X0.75X0.25m in VRCC M20 grade and constructed over a C.C (1:4:8) prop bed of 100mm thick. The columns shall be of 230X230 mm in size with VRCC M20 grade at 3.00m c/c spacing, having depth of 1.20m below ground level and height of 2.00m above GL. The plinth beam of size of 230X300 mm shall be constructed in VRCC M20 grade at Ground level, over a bed of CC(1:4:8)-100mmthick. 450X450mm size columns in M20 grade shall be constructed for gate pillars. All the materials shall be followed as per the standards.
	Tie beam shall be provided above the brick work with 230X200mm size, fixed with MS angular of 25mm X 25mm X 4mm in "Y" shape to height of 0.60m, with embedded length of 150mm in concrete. The barbed wire fencing with 3 ply of 18 gauges shall be stretched in 4 rows (2x2). Plastering shall be done with 16mm thick in two coats i.e., base coat 12mm thick in CM(1:6)prop and 4mm thick 2nd coat CM(1:4) prop on both sides of brick work.

	Snowcem paint in two coats shall be provided for both sides of wall. The M.S ornamental gate as per the approved drawings shall be provided with minimum of 3.60mts width and 2.40mts height with enamel paint. Yard lighting shall be arranged on four corners of compound wall. If the length of the wall is increased/decreased			
	Note:-For every 1m increase/decrease in length of compound wall the increase/decrease in basic rates of ELSRs of the capacities from 500KL to 2500KL shall be as follows.: i)500 KL : 0.086% ii)1000 KL : 0.047% iii)1500 KL : 0.034% iv)2000 KL : 0.026% v)2500 KL : 0.022 % For intermediate capacities, interpolated percentages shall be adopted.			
	xiv) Staff Quarter shall be constructed for a minimum plinth area of 40 Sqm with the following specification: RCC framed structure with concrete grade not less than M20 design mix at the locations specified by the department at the time of execution with veranda, hall, bed room, kitchen and bath &W/C with floor area of 40.00sqmts excluding balconies and staircases.			
	MS hollow door frame with cold rolled processed steel sheet 1.25mm thick bright CRCA conforming to IS 4351/76, Flush door shutters with solid bond wood bond board doors shall be provided. N.C.L. Windows centre fixed both sides open able shutter window 1.35 X 1.35mts outer frame section 48 x50mm shutter frame section with a size of 48 X20 mm mullion section of size 48 X 50mm fixed beading section of 12 X 12 mm shall be provided. Flooring with polished Kadapa stone shall be provided. Walls shall be provided with snowcem paint in two coats over primary coat. Electrical and water supply arrangement shall be provided as directed by dept officer. Water Storage tank made with plastic/polymer material of reputed make with necessary out let and inlet connection pipes shall be provided. Septic tank for 5 users shall be provided.			
44	Rates for OHSRs/ELSRs including fixtures with a staging of 10 m without Seismic analysis.		Rs/liter	
a	Up to 10,000 Liters capacity	Per liter	LAB-00682	66.61
b	15,000 Liters capacity	Per liter	LAB-00683	49.75
c	20,000 Liters capacity	Per liter	LAB-00684	45.00
d	40,000 Liters capacity	Per liter	LAB-00685	38.15
e	60,000 Liters capacity	Per liter	LAB-00686	28.91
f	1,00,000 Liters capacity	Per liter	LAB-00687	26.18
g	2,00,000 Liters capacity	Per liter	LAB-00688	22.88
h	3,00,000 Liters capacity	Per liter	LAB-00689	21.53
i	4,00,000 Liters capacity	Per liter	LAB-00690	18.96
j	4,50,000 Liters capacity	Per liter	LAB-00691	16.39
	NOTE: -1). All concrete members shall be designed with M30 grade design mix.			
	2) For intermediate ranges proportional rates may be adopted			

	3) The above rates are applicable for Elevated Level Services Reservoirs / OHSRs with RAFT FOUNDATION and a rate of Rs.3680/- per tonne for cement (as per G.o.Ms.No.22 Dt:13-04-2020 of YSR NIRMAN) and Rs.68000/- per tonne for steel (Fe 500) and as per sand rates finalized by the BoCE's& communicated vide Lr. No .ENC/IW/SE(P&M)/EE.1/DEE.2/AEE(K)/SoR 2019-20/VOL-4 Dt:25-10-2019.
	4)The above rates are applicable for Elevated Level Services Reservoirs / OHSRs for <u>SBC of 15 T/Sqm.</u>
	a) For every decrease of 2.50 T/Sqm of SBC, the rate shall be increased by <u>2.50% on basic rate.</u>
	b) For every increase of 2.5 T/Sqm of SBC, the rate shall be decreased by <u>1.0% on basic rate up to 20 T/Sqm</u>
	c) For SBC 10T/Sqm to 7.5 T/Sqm, solid raft shall be provided and for solid raft the rate shall be increased by <u>10% on basic rate.</u>
	d) For SBC 7.5 T/Sqm to 5 T/Sqm, solid raft shall be provided and for solid raft the rate shall be increased by <u>15% on basic rate</u>
	e) For SBC value of less than 5 T/Sqm, soil improvement shall be adopted, for which additional payment shall be made as per field condition.
	5) For every Meter of staging less than 10 m, the rate shall be reduced by Rs.0.05 paisa per liter per every Meter of difference in staging
	6) For every Meter of staging above 10 m , the rate shall be increase by Rs.0.10 paisa per liter per every Meter of additional in staging
	7) The above rates shall be increased / decreased due to increase / decrease in the cost of cement by Basic Rate x $\{(Rc-3680)/3680\} \times 0.07$ Rc = Rate of cement (Rs per Mt) at the time of preparation of estimate.
	8)The above rates shall be increased / decreased due to increase / decrease in the cost of steel by Basic Rate x $\{(Rs-68000)/68000 \times 0.2\}$ Rs = Rate of steel (Rs per Mt) at the time of preparation of estimate.
	9) Rate inclusive of three coats of epoxy paint Food Grade of best quality to inner surface of the Reservoir including roof.
	10) The above rates shall be adopted for estimate purposes for construction of ELSR for a finished work including 2 coats of whether proof emulsion painting for external surfaces, lettering, all required fixtures, pipes, bends, valves etc., for pipe connections but excluding cost of pipes, bends and valves as per departmental designs and drawings.
	11) The above rates are applicable for wind pressures up to 250 kg / Sq m .For decrease in wind pressure the rate has to be decreased by 5% per every 100kg/Sqm. If the ELSR / OHSR are to be designed for seismic forces also, cost shall be arrived by working out detailed quantities based on the designs.
	12) (a)For tribal/Agency / Rural area, the above rates as arrived up to shall be increased by 10%. (b) An additional increase of 7.50% shall be allowed for OHSRs/ELSRs located in agency areas over the above rates for RWS Department works.
	13) If the ELSR is to be designed for seismic forces also, cost shall be arrived by working out detailed quantities based on the design & difference to be paid extra.

	14) If the ELSR is to be designed for seismic forces a) The above rates are applied up to Zone-II earth quake. b) For Zone-III earth quake the above rates are to be increased by 15 %.		
	15) Fixtures include :		
	a) RCC or Aluminum ladder inside 0.60 m wide.		
	b) Spiral staircase on the outside shall be provided up to 200KL. Above 200KL capacity dog legged staircase shall be provided with staircase flight width of 1.0mts and landing width of 1.20mts with S.S railing up to 1.0 height.		
	c) Lightning arrestor, including conductor and earthing etc.		
	d) RCC ventilators with copper or stainless steel fly proof mesh.		
	e) D.I Manholes frame and cover 0.60x0.60 m as per IS specifications (light duty) - 2 Nos.		
	f) Water level indicator of good quality with ebonite/ copper float approved pattern - 1 No.		
	g) The ladder shall be with M.S ladder and Verticals with HDPE of 10kg/Sqcm shall be provided for single column OHSRs only.		
	h) Minimum staging for all ELSR/OHSR shall be 10.0mts.		
	i) The increase in staging shall be at 1.0mt interval.		
	j) The railing provided to the gallery and stair case shall be with stainless steel of grade 304 for a height of 1.20mts.		
	k). The dog legged staircase shall be enclosed with brick/CRS wall on three sides and front side with M.S collapsible gate up to 1st brace level from ground level to prevent unauthorized entry.		
	l). D.I swan neck ventilators shall be provided in top dome and slab.		
	m). The above rates are exclusive of all inlet, out let connection and valves. All valves near inlet, out let and for scour of ELSRs shall be D.I valves of heavy duty conforming to the specification of SoR item No.28		
45	Construction of Rapid Gravity Filtration Plant including all civil, mechanical and electrical works using sand as filter media, compatible with SCADA arrangements, duly following relevant IS codes in the design of plant components including trial running for 90 days etc., including chlorine contact tank & consumables etc., complete.		
	1) 2.0 MLD	Per liter	LAB-00692 5.20
	2) 5.0 MLD	Per liter	LAB-00693 4.24

3) 10.0 MLD	Per liter	LAB-00694	3.78
4) 20.0 MLD	Per liter	LAB-00695	3.04
5) 30.00 MLD and above	Per liter	LAB-00696	2.64
NOTE :-			
a) For Intermediate Capacities proportional rates may be adopted			
b) The above rates are applicable with Cement @ rate of Rs.3680/- per MT (as per G.o.Ms.No.22 Dt:13-04-2020 of YSR NIRMAN) and Steel of Rs. 68000/MT.(Fe 500) and as per sand rates finalized by the BoCE's& communicated vide Lr. No .ENC/IW/SE(P&M)/EE.1/DEE.2/AEE(K)/SoR 2019-20/VOL-4 Dt:25-10-2019.			
c) The above rates shall be increased / decreased due to increase / decrease in the cost of cement by Basic Rate x $\{(Rc-3680)/3680\} \times 0.07$ Rc = Rate of cement (Rs per Mt) at the time of preparation of estimate			
d) The above rates shall be increased / decreased due to increase / decrease in the cost of steel by Basic Rate x $\{(Rs-68000)/68000\} \times 0.2$ Rs = Rate of Steel (Rs per MT) at the time of preparation of estimate.			
e) For Rural areas an extra allowance of 10% shall be given on basic rate.			
f) i) For SBC below 10T/Sqm to 7.5 T/Sqm, solid raft shall be provided and for solid raft the rate shall be increased by 10% on basic rate. ii) For SBC below 7.5 T/Sqm to 5 T/Sqm, solid raft shall be provided and for solid raft the rate shall be increased by 15% on basic rate.			
g) For SBC value of less than 5 T/Sqm, soil improvement shall be adopted, for which additional payment shall be made as per field condition.			
h) For components immersed in water Stain less Steel of Grade 304L shall be used. for other components 304 Grade steel shall be used.			
i) Lab testing equipment of reputed make and consumables for one year. The testing equipment for conducting all laboratory tests shall be installed & training shall be imparted to the Municipal staff.			
The above rates of Filtration Plants shall include all the following components.			
A) Civil Works (All works of VRCC Shall be in M30 design mix)			
1). Stilling Chamber and Aeration cascade			
2) Pre settling tank shall be provided for 30 MLD and above capacities of WTP for a minimum of 1 hr capacity.			
3). Raw water channel with Stainless Steel Weir of SS 304 L Grade material and also with digital flow meters			
4) Flash Mixer chamber with Flash mixing arrangements including SS shaft & SS Blades with gear wheel arrangements etc, using 304 L Grade Steel.			
5-a) Clariflocculator / Flocculation tanks with the components of central driven circular clarifier with scrapper & bridge arrangements made with Stainless Steel Grade 304 L tubes /angular for durability & chemical resistant with wheel arrangements etc,			
5-b) Two numbers of Clariflocculator shall be provided for WTP's of more than 30 MLD capacity.			

	6) Filter house, Chemical house, Alum store, Laboratory room, Chlorination plant room, toilet etc. (All structures shall be provided RCC roof only). Chemical house & Chlorinator rooms are to be isolated and shall be as per CPHEEO manual.
	7) Wash water tank of suitable capacity shall be constructed at minimum clearance of 2.00m, above the roof slab of Filter beds / any other structure, and the minimum residual head at the top of under drain system shall not be less than 8.0 meters.
	8) Chlorine contact tank
	9) All the Doors and Windows shall be of Best Teak wood/Aluminum / UPVC make, except entrance door. The entrance door including shutter in filter house shall be with best teak wood of minimum size of 2.40 X 2.40 mts. a) Main Doors of all individual Buildings shall be made of Best Teak wood b) Other Internal Doors of the buildings shall be of Compressed wood/ Aluminum/ UPVC materials. c) Ventilators shall be provided for each building/structure of suitable size as per NBC standards.
	10) a) All pipes in Plant shall be of D.I., D/F materials. All Connecting pipes of the plant components such as from Flash mixer to Clariflocculator/ Clarifier/Flocculation tank, to Filter beds, sludge disposal pipes shall be of D.I., D/F material. The size of sludge disposal pipe shall be minimum of 450 mm dia. with D.I D/F pipe and minimum length of 100 meters. b) All the Valves in Plant shall be heavy duty and as per the specification of SoR item No.28
	11) The Pipe gallery way for Clear water/ Back wash water/ pipe connections shall be sufficiently spaced for easy operation & maintenance and inspection, as per standard norms.
	12) The bottom level of the wash water control chamber must be above G.L so as to dispose the wash water and sludge from Clariflocculator by gravity to disposal point.
	Additional specifications
	13) Railing for all the components (Clariflocculator, Filter House, Staircase etc,.) shall be provided with Stainless Steel of grade 304 for a height of 1.00m, with 40mm dia. pipe for top horizontals, 25mm dia. for middle row and 40mm dia. verticals spaced at interval of not more than 1.00m c/c.
	14) Inspection / Path ways in filter beds: Middle pathway: Minimum of 1.50m, Side pathway: Minimum of 1.20m
	15) Flooring in the buildings (Filter house, Chemical House, Chlorinator Room, Laboratory) shall be provided with Non-skid tiles of approved make & quality, as per standard specifications.
	16) The basement of the Filtration plant building shall be minimum of 1.20m and pipe gallery shall be minimum 0.3m above the existing nearby Road top level.
	17) Minimum head room of 2.00m shall be provided, at the alum mixing chambers in alum store for inspection & maintenance.
	18) The minimum width of entrance hall for the Filter House shall be 4.50m, and Laboratory of min size .of 3.30 X 4.50m.
	18) b) For various components of the WTP should be designed by considering the uplift pressure also.

	19) a) High efficient Air Blowers shall be installed to the design requirement with low noise pollution, environmental pollution as per PCB guide lines & Testing of blowers as per I.S Standards at site. b) The Piping from Blower to Filter Beds shall be GI and submerged pipe in water shall be HDPE.
	20) UPVC pipes shall be provided for under drain system. Filter pipe manifolds shall be assembled with HDPE pipes.
	21) Alum storage capacity shall be designed for minimum period of 90 days. Consumables shall be provided for 2115 Running Hours of WTP.
	22) Chlorinator : Vacuum type chlorinator shall be provided with following specifications: a) Vacuum operated solution feeding type Vacuum Regulator, Rotameter, Rate setting Valve, built-in NRV, Gas Overflow out let by man folding to mount the system with the unit. b) The unit shall consist of Ejector with necessary accessories such as Check Valve, Drain Valve and Vacuum relief Valves - for control of chlorinator dosage. c) The Accessories and manifolds shall be chlorine resistant and made of carbon steel seam less pipes, copper tube with brass fittings of suitable size & dimensions, with diaphragm sealed chlorine pressure gauge arrangements
	d) Water Booster Pump of pumping capacity ranging from 2 cum/hr to 12 cum/hr, with Head ranging from 16 to 35 m e) The water & solution carrying pipes shall be made of UPVC material of suitable size incl. all specials such as Tee's , Bends, couplings & NRVs and also Pressure Gauges of suitable range. f) Chlorine Gas Leak detector with alarm indicator. The installation includes all necessary accessories, civil and mechanical works, manifold header installations, injector fixing, connection with UPVC pipes, solution piping's, fixing of motors as per standard specifications and commissioning of Chlorination Plant to the required demand, with a defect liability period of 1 year. The chlorinator of may be of any reputed make or any make of Metito/Toshocow-Jesco Siemens Industrial Devices. g) Life breathing apparatus. h) Chlorine escape BA set
	i) 2 to 10 MLD Plants - 1Kg/hr Chlorinator- For Post Chlorination
	ii) 10 MLD to 20 MLD Plants - 2 Kg/hr Chlorinator - For Post Chlorination.
	iii) 20 MLD to 50 MLD Plants - 5 Kg/hr Chlorinator - For Post Chlorination.
	B) Mechanical Equipment
	1) Alum dosing equipment with SS 304 material made stirrers & paddles for chemical resistance. (Alum tanks must be bound with corrosion resistant material (HDPE Lining, Bitumen Coating, tiles etc)
	2) Flash mixer equipment with SS 304 material made stirrers & paddles for chemical resistance.
	3) Filtration plant equipment instrumentation and piping.
	4) Clariflocculation equipment (with stainless steel blades) with rotating bridge arrangement etc.,
	5) Pneumatic tyre wheel shall be provided for the bridge Clariflocculator.

	6) Wash water tank fittings and pump sets with 100% stand by.
	7) Air blower with motor of 100% stand by and pipe connections made with of SS pipes conforming to SS 304 Grade, in filter bed region.
	8) Chlorination equipment and pipe connections with chlorinator of 100% standby.
	9) Spares & Tools for 2 years.
	10) Gaseous Chlorination with cylinders has to be provided with protection measures.
	C) Electrical Equipment
	1) Necessary power supply wiring to motors and switches bus bar connections as per IE Rules
	2) Internal wiring and illumination and fittings and fixtures for internal and external lighting exhaust fans, ceiling fans etc.
	3) Erecting mechanical and electrical equipment, trial run for 90 days at 23.50 hours per day testing the treated water as per CPHEEO standards and maintenance of records and imparting training to staff.
	4) Supply of 6 - Sets of completion plans and maintenance manual and brochures.
	5) All cables shall be of copper material, Cable ducts shall be covered with MS / Aluminum cheque plate.
	6) Min LUX levels inside the treatment plant shall be maintained.
	7) Yard lighting shall be provided as per norms.
	D) Equipment for Flow measurements
	1) Equipment for measuring Conductivity, Turbidity, Ph value, Residual Chlorine with recording & data storage facility (Computer based) & Alarm by SMS or other methods.
	2) Off - Site Supervisory and Data Acquisition (OSSADA) system for Raw water & Clear water flows by installing Digital Flow meters to measure the flows at Raw water Channel and at each filter bed individually and combined for measuring the quantities of water treated with a facility to record and store the readings & also to send messages to the assigned designators about the variations/ deficiencies in the flow including alerts for back wash requirements of filter beds, and recovery of data for the past 360 days. All the Digital Flow Meters & Pressure Gauges shall be provided of standard approved make. The equipment shall have the following specifications.
	Hardware:
	i) Wall mounted Sensor House for measuring Raw water & Clear water flow from Filter bed out lets with accessories consists of
	ii) Electrode Type: General type, Scraper type or replaceable type Electrode made with material of SS external Ultra Touch Sensors as per requirement.
	iii) Customized Application Requirement : Sensors with Interface logic control board with serial interfaces, including accessories such as Add-on port, external DC Power Socket, On - sensor Board Buffer, Timer, RS485 Communication, Analog to Digital Sensing Sensor Circuit, 32 Sensors Sensing Tags, Interval Power Supply System , LCD 16c/2L, Filter Bed Working Status Indication LED, Filter Bed Wash Indication Button and memory of Data Storage for 30Days , status of Filter Bed Level indicator, Rating, Reading on LCB Display, Menu Driven Data for sending to Onsite Big

	Display, operated with Battery Power of any reputed make or any equivalent make.
	iv) Customized Application Requirement: Power Sensors Interface logic control board with support 8 Power Sensing tags, Central System Interfacing Communication, On - board analog to Digit Convert Integrate Circuit of any reputed make or any equivalent make.
	v) Customized Application Requirement: Centralized System with two serial interfaces, 3 No's of Add-On ports, One external DC Power Socket, On - Board Buffer, On - Board Timer, On - Board RS485 Communication, On - Board RS 232 Communication, On - Board GPRS/GSM Module, On - Board Voice Chip, On - Board Power Sensing Module, LCD 16c/2L, Filter Bed Wash Precaution Indication with Stop Button, Memory of Data Storage for 30 Days, Total Bed Rating, Reading display on LCD Display, Menu Driven, Menu Navigate Keypad, sending data to the Web Server, Communication with GPRS , operated with Battery Power of any reputed make or any equivalent make.
	Software:
	The software shall be designed with Web Domain with Data Base Server and Web Name as per the directions of the Departmental Authorities.
	The application of Software for Web design & Desktop shall meet the following requirements:
	i) Onsite Display: Letters with size of 1.5' seven Segment LED Display with Interface for each Filter Bed, for Onsite Display, by displaying the Bed Levels, Ratings, Readings in 3 Columns, for each bed of the plant in successive rows and cumulative results at the bottom of the screen.
	ii) Off Site Display: Letters with size of 1.5' seven Segment LED Display with Interface GPRS/GSM Modules Offsite Display, with Display of Bed Total Rating, Total Cumulative Reading as specified on On-site Display Features.
	The system shall have also the features of Onsite Bed Wash Voice Precautions for Bed Levels, Readings, Ratings, Bed Capacity Readings and Ratings and Bed Low Level Triggering, before & after Bed wash.
	The software shall also have the features of sending messages to the mobiles of the Departmental designators indicating Bed Low Levels, Power Supply timings, Bed Wash timings and its status, Power Supply timings and its status Grid View Table, Motor Working time and its status Grid View Table, all trigger events and schedule information and including all Snap View Reports, all Daily, Monthly, Yearly Reports, all Power Working Reports, all Power Events Information etc.,

1. S o R FOR R.C.C. PLAIN ENDED PIPES

Sl. No.	Description							
1	Manufacture, Supply and Delivery of R.C.C. Plain ended pipes conforming to B.I.S 458/2003, Ex-factory, excluding transportation and all taxes.							
	Size	Unit	SoR For 2022-23					
			Code	NP- 2 Class	Code	NP - 3 Class	Code	NP - 4 Class
	80 mm dia.	Meter	MAT-05615	147				
	100 mm dia.	Meter	MAT-05616	169				
	150 mm dia.	Meter	MAT-05617	201				
	200 mm dia.	Meter	MAT-05618	237				
	225 mm dia.	Meter	MAT-05619	257				
	250 mm dia.	Meter	MAT-05620	272				
	300 mm dia.	Meter	MAT-05621	393	MAT-05636	917	MAT-05651	941
	350 mm dia.	Meter	MAT-05622	488	MAT-05637	1097	MAT-05652	1120
	400 mm dia.	Meter	MAT-05623	565	MAT-05638	1208	MAT-05653	1238
	450 mm dia.	Meter	MAT-05624	691	MAT-05639	1388	MAT-05654	1405
	500 mm dia.	Meter	MAT-05625	758	MAT-05640	1507	MAT-05655	1745
	600 mm dia.	Meter	MAT-05626	1120	MAT-05641	2281	MAT-05656	2723
	700 mm dia.	Meter	MAT-05627	1432	MAT-05642	2843	MAT-05657	3671
	800 mm dia.	Meter	MAT-05628	1766	MAT-05643	3763	MAT-05658	4796
	900 mm dia.	Meter	MAT-05629	2238	MAT-05644	4738	MAT-05659	5988
	1000 mm dia.	Meter	MAT-05630	2732	MAT-05645	5777	MAT-05660	8208
	1100 mm dia.	Meter	MAT-05631	3213	MAT-05646	6961	MAT-05661	9528
	1200 mm dia.	Meter	MAT-05632	3830	MAT-05647	8210	MAT-05662	11150
	1400 mm dia.	Meter	MAT-05633	5242	MAT-05648	10595	MAT-05663	15437
	1600 mm dia.	Meter	MAT-05634	6056	MAT-05649	13799	MAT-05664	18543
	1800 mm dia.	Meter	MAT-05635	7956	MAT-05650	18352	MAT-05665	24927

Note : All prices are ex-works.

The above rates of RCC Plain ended pipes are based on the following raw materials Cost Cement. Rs.3680/- per MT (Excluding all taxes and freight).

Steel (M.S. Rods) - Rs.65000/- per MT. (Excluding all taxes and freight).

The revised cost of RCC pipes due to increase / decrease in the cost of raw materials shall be as per the following formula.

Revised Cost = Cost as per the above table + R1 + R2

R1 = Variation (increase / decrease) in cost (Rs. per Meter) due to change in the Cost of M.S. Rods = $(S2 - S1) / 1000 \times W_s$.

R2 = Variation (increase / decrease) in cost (Rs. per Meter) due to change in the Cost of Cement = $(C2 - C1) / 1000 \times W_c$.

S1 = Rs. 65000/- , S2 = Cost of M S Rods (Rs. per MT Excluding all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 3680/- C2 = Cost of Cement (Rs. per MT Excluding all taxes and freight) at the time of preparation of estimate.

W_s = Weight of MS Rods required (Kg.) per Meter of pipe as per IS:458/2003.

W_c = Weight of Cement required (Kg.) per Meter of pipe.

2. S o R FOR R.C.C. COLLARS

Sl.No.	Description							
1	Manufacture, Supply and Delivery of R.C.C. Collars conforming to B.I.S. 458/2003 (rate per each collar) suitable for R.C.C. Plain ended pipes including transportation but excluding all taxes.							
	Size	Unit	SoR For 2022-23					
			Code	NP - 2 Class	Code	NP - 3 Class	Code	NP - 4 Class
	80 mm dia.	Each	MAT-05666	46.00				
	100 mm dia.	Each	MAT-05667	46.00				
	150 mm dia.	Each	MAT-05668	47.00				
	200 mm dia.	Each	MAT-05669	65.00				
	225 mm dia.	Each	MAT-05670	69.00				
	250 mm dia.	Each	MAT-05671	76.00				
	300 mm dia.	Each	MAT-05672	99.00	MAT-05687	141.00	MAT-05702	141.00
	350 mm dia.	Each	MAT-05673	123.00	MAT-05688	177.00	MAT-05703	177.00
	400 mm dia.	Each	MAT-05674	135.00	MAT-05689	202.00	MAT-05704	202.00
	450 mm dia.	Each	MAT-05675	212.00	MAT-05690	269.00	MAT-05705	269.00
	500 mm dia.	Each	MAT-05676	241.00	MAT-05691	321.00	MAT-05706	321.00
	600 mm dia.	Each	MAT-05677	328.00	MAT-05692	420.00	MAT-05707	420.00
	700 mm dia.	Each	MAT-05678	427.00	MAT-05693	567.00	MAT-05708	567.00
	800 mm dia.	Each	MAT-05679	606.00	MAT-05694	721.00	MAT-05709	721.00
	900 mm dia.	Each	MAT-05680	723.00	MAT-05695	839.00	MAT-05710	839.00
	1000 mm dia.	Each	MAT-05681	845.00	MAT-05696	1050.00	MAT-05711	1050.00
	1100 mm dia.	Each	MAT-05682	1034.00	MAT-05697	1333.00	MAT-05712	1333.00
	1200 mm dia.	Each	MAT-05683	1258.00	MAT-05698	1668.00	MAT-05713	1668.00
	1400 mm dia.	Each	MAT-05684	1620.00	MAT-05699	2114.00	MAT-05714	2114.00
	1600 mm dia.	Each	MAT-05685	2073.00	MAT-05700	2709.00	MAT-05715	2709.00
	1800 mm dia.	Each	MAT-05686	2127.00	MAT-05701	3494.00	MAT-05716	3494.00

The above rates of RCC Collars suitable to plain ended pipes are based on the following raw materials cost. Cement. Rs.3680/- per MT(Excluding all taxes and freight).

Steel (M.S. Rods) - Rs.65000/- per MT.(Excluding all taxes and freight).

The revised cost of RCC collars due to increase / decrease in the cost of raw materials shall be as per the following formula.

Revised Cost =Cost as per the above table +R1+R2

R1= Variation (increase / decrease) in cost (Rs. per each) due to change in the cost of M.S.

Rods $= (S2-S1)/1000 \times W_s$.

R2= Variation (increase /decrease) in cost (Rs. per each) due to change in the cost of Cement = $(C2-C1)/1000 \times W_c$.

S1 = Rs. 65000/- , S2 = Cost of M S Rods (Rs. per MT excluding all taxes and freight) at the time of preparation of estimate.

C1 = Rs.3680/-,

C2 = Cost of Cement (Rs. per MT excluding all taxes and freight) at the time of preparation of estimate

Ws=Weight of MS Rods required (Kg.) per each collar.

Wc= Weight of Cement required (Kg.) per each collar.

3. S o R FOR R.C.C. S/S PIPES (Non - Pressure)

Sl. No.	Description							
1	Manufacture, Supply and Delivery of R.C.C. Socket and Spigot pipes conforming to B.I.S. 458/2003 at ex-factory (rate per meter of effective length) Excluding transportation and all taxes.							
	Size	Unit	SoR For 2022-23					
			Code	NP - 2 Class	Code	NP - 3 Class	Code	NP - 4 Class
	80 mm dia.	Meter	MAT-05717	183				
	100 mm dia.	Meter	MAT-05718	206				
	150 mm dia.	Meter	MAT-05719	240				
	200 mm dia.	Meter	MAT-05720	293				
	225 mm dia.	Meter	MAT-05721	317				
	250 mm dia.	Meter	MAT-05722	338				
	300 mm dia.	Meter	MAT-05723	476	MAT-05738	1173	MAT-05753	1249
	350 mm dia.	Meter	MAT-05724	611	MAT-05739	1457	MAT-05754	1483
	400 mm dia.	Meter	MAT-05725	673	MAT-05740	1615	MAT-05755	1643
	450 mm dia.	Meter	MAT-05726	840	MAT-05741	1783	MAT-05756	1794
	500 mm dia.	Meter	MAT-05727	969	MAT-05742	2041	MAT-05757	2225
	600 mm dia.	Meter	MAT-05728	1356	MAT-05743	2867	MAT-05758	2941
	700 mm dia.	Meter	MAT-05729	1760	MAT-05744	3676	MAT-05759	3842
	800 mm dia.	Meter	MAT-05730	2269	MAT-05745	4873	MAT-05760	5019
	900 mm dia.	Meter	MAT-05731	2882	MAT-05746	6138	MAT-05761	6329
	1000 mm dia.	Meter	MAT-05732	3514	MAT-05747	6901	MAT-05762	7344
	1100 mm dia.	Meter	MAT-05733	4088	MAT-05748	8168	MAT-05763	8688
	1200 mm dia.	Meter	MAT-05734	4622	MAT-05749	9654	MAT-05764	10181
	1400 mm dia.	Meter	MAT-05735	6623	MAT-05750	12788	MAT-05765	14474
	1600 mm dia.	Meter	MAT-05736	8198	MAT-05751	16657	MAT-05766	17403
	1800 mm dia.	Meter	MAT-05737	9155	MAT-05752	22148	MAT-05767	23419

Note: All the prices are ex-works. The above rates of RCC S/S Non-Pressure pipes are based on the following raw materials cost.

Cement. Rs.3680/- per MT,(Excluding all taxes and freight).

Steel (M.S. Rods) – Rs.65000/- per MT. (Excluding all taxes and freight).

The revised cost of RCC pipes due to increase / decrease in the cost of raw materials shall be as per the following formula.

Revised Cost = Cost as per the above table +R1+R2

R1= Variation (increase / decrease) in cost (Rs. per Meter) due to change in the cost of M.S. Rods = $(S2-S1)/1000 \times Ws$.

R2= Variation (increase / decrease) in cost (Rs. per Meter) due to change in the cost of Cement = $(C2-C1)/1000 \times Wc$.

S1 = Rs. 65000/- , S2 = Cost of M S Rods (Rs. per MT excluding all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 3680/- , C2 = Cost of Cement (Rs. per MT excluding all taxes and freight) at the time of preparation of estimate

Ws=Weight of MS Rods required (Kg.) per Meter of pipe as per IS: 458/2003.

WC= Weight of Cement required (Kg.) per Meter of pipe.

4. S o R FOR R.C.C. S/S PIPES (Pressure)

Sl.No.	Description							
1	Manufacture, Supply and Delivery of R.C.C. Socket and Spigot pipes conforming to B.I.S. 458/2003 Ex-factory (rate per meter of effective length) Excluding transportation and all taxes.							
	Size	Unit	SoR For			2022-23		
			Code	P1 - Class	Code	P2 - Class	Code	P3 - Class
	80 mm dia.	Meter	MAT-05768	241	MAT-05786	271	MAT-05802	311
	100 mm dia.	Meter	MAT-05769	270	MAT-05787	326	MAT-05803	378
	150 mm dia.	Meter	MAT-05770	374	MAT-05788	487	MAT-05804	603
	200 mm dia.	Meter	MAT-05771	433	MAT-05789	625	MAT-05805	826
	225 mm dia.	Meter	MAT-05772	488	MAT-05790	711	MAT-05806	921
	250 mm dia.	Meter	MAT-05773	535	MAT-05791	760	MAT-05807	966
	300 mm dia.	Meter	MAT-05774	719	MAT-05792	1089	MAT-05808	1361
	350 mm dia.	Meter	MAT-05775	895	MAT-05793	1517	MAT-05809	1964
	400 mm dia.	Meter	MAT-05776	1065	MAT-05794	2011	MAT-05810	2599
	450 mm dia.	Meter	MAT-05777	1132	MAT-05795	2387	MAT-05811	3195
	500 mm dia.	Meter	MAT-05778	1516	MAT-05796	2588	MAT-05812	3628
	600 mm dia.	Meter	MAT-05779	2076	MAT-05797	3864	MAT-05813	5038
	700 mm dia.	Meter	MAT-05780	2776	MAT-05798	5101	MAT-05814	6390
	800 mm dia.	Meter	MAT-05781	3473	MAT-05799	6056	MAT-05815	7716
	900 mm dia.	Meter	MAT-05782	4186	MAT-05800	7116		
	1000 mm dia.	Meter	MAT-05783	5310	MAT-05801	8157		
	1100 mm dia.	Meter	MAT-05784	6384				
	1200 mm dia.	Meter	MAT-05785	7456				

Note: All the prices are ex-works.

The above rates of RCC S/S Pressure pipes are based on the following raw materials cost.

Cement. Rs.3680/- per MT,(Excluding all taxes and freight).

Steel (M.S. Rods) - Rs.65000/- per MT. (Excluding all taxes and freight).

The revised cost of RCC pipes due to increase / decrease in the cost of raw materials shall be as per the following formula.

Revised Cost =Cost as per the above table +R1+R2

R1= Variation (increase / decrease) in cost (Rs. per Meter)due to change in the cost of M.S.

Rods = $(S2-S1)/1000 \times Ws$.

R2= Variation (increase / decrease) in cost (Rs. per Meter)due to change in the cost of

Cement = $(C2-C1)/1000 \times Wc$.

S1 = Rs. 65000/-

S2 = Cost of M S Rods (Rs. per MT excluding all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 3680/-, C2 = Cost of Cement (Rs. per MT excluding all taxes and freight) at the time of preparation of estimate

Ws=Weight of MS Rods required (Kg) per Meter of pipe as per IS: 458 /2003.WC= Weight of Cement required (Kg) per Meter of pipe.

5. S o R FOR RUBBER RINGS TO SUIT R.C.C. S/S PIPES

Sl. No.	Description							
1	Manufacture, Supply and Delivery of Rubber rings to suit R.C.C.Socket and Spigot pipes conforming to B.I.S 5382/ 1985 (rate per each rubber ring) including transportation but excluding all taxes. The Rubber Rings shall be tested at the factory premises confirming to B.I.S. 5382/1985.							
	Size	Unit	SoR For 2022-23					
			Code	NP - 2 Class	Code	NP - 3 Class	Code	NP - 4 Class
	80 mm dia.	Each	MAT-05816	28				
	100 mm dia.	Each	MAT-05817	34				
	150 mm dia.	Each	MAT-05818	61				
	200 mm dia.	Each	MAT-05819	72				
	225 mm dia.	Each	MAT-05820	79				
	250 mm dia.	Each	MAT-05821	88				
	300 mm dia.	Each	MAT-05822	108	MAT-05837	139	MAT-05852	139
	350 mm dia.	Each	MAT-05823	125	MAT-05838	166	MAT-05853	166
	400 mm dia.	Each	MAT-05824	138	MAT-05839	188	MAT-05854	188
	450 mm dia.	Each	MAT-05825	156	MAT-05840	213	MAT-05855	213
	500 mm dia.	Each	MAT-05826	203	MAT-05841	244	MAT-05856	244
	600 mm dia.	Each	MAT-05827	267	MAT-05842	354	MAT-05857	354
	700 mm dia.	Each	MAT-05828	267	MAT-05843	424	MAT-05858	424
	800 mm dia.	Each	MAT-05829	461	MAT-05844	515	MAT-05859	515
	900 mm dia.	Each	MAT-05830	577	MAT-05845	696	MAT-05860	696
	1000 mm dia.	Each	MAT-05831	675	MAT-05846	840	MAT-05861	840
	1100 mm dia.	Each	MAT-05832	812	MAT-05847	1076	MAT-05862	1076
	1200 mm dia.	Each	MAT-05833	1301	MAT-05848	1352	MAT-05863	1352
	1400 mm dia.	Each	MAT-05834	1430	MAT-05849	1488	MAT-05864	1488
	1600 mm dia.	Each	MAT-05835	1781	MAT-05850	1815	MAT-05865	1815
	1800 mm dia.	Each	MAT-05836	2218	MAT-05851	2319	MAT-05866	2319

2	Manufacture, Supply and Delivery of Rubber rings to suit R.C.C. Socket and Spigot pipes conforming to B.I.S 5382/ 1985 (rate per each rubber ring) including transportation but excluding all taxes. The Rubber Rings shall be tested at the factory premises confirming to B.I.S. 5382/1985.							
	Size		Code	P1- Class	Code	P2- Class	Code	P3- Class
	80 mm dia.	Each	MAT-05867	28	MAT-05885	28	MAT-05901	28
	100 mm dia.	Each	MAT-05868	34	MAT-05886	36	MAT-05902	36
	150 mm dia.	Each	MAT-05869	61	MAT-05887	61	MAT-05903	61
	200 mm dia.	Each	MAT-05870	72	MAT-05888	72	MAT-05904	72
	225 mm dia.	Each	MAT-05871	79	MAT-05889	81	MAT-05905	83
	250 mm dia.	Each	MAT-05872	88	MAT-05890	92	MAT-05906	93
	300 mm dia.	Each	MAT-05873	108	MAT-05891	114	MAT-05907	118
	350 mm dia.	Each	MAT-05874	125	MAT-05892	142	MAT-05908	156
	400 mm dia.	Each	MAT-05875	138	MAT-05893	188	MAT-05909	192
	450 mm dia.	Each	MAT-05876	156	MAT-05894	215	MAT-05910	221
	500 mm dia.	Each	MAT-05877	203	MAT-05895	244	MAT-05911	255
	600 mm dia.	Each	MAT-05878	267	MAT-05896	301	MAT-05912	307
	700 mm dia.	Each	MAT-05879	364	MAT-05897	398	MAT-05913	424
	800 mm dia.	Each	MAT-05880	461	MAT-05898	510	MAT-05914	510
	900 mm dia.	Each	MAT-05881	577	MAT-05899	644		
	1000 mm dia.	Each	MAT-05882	675	MAT-05900	777		
	1100 mm dia.	Each	MAT-05883	812				
	1200 mm dia.	Each	MAT-05884	1301				

6. S o R FOR CONVEYANCE OF R.C.C. PLAIN ENDED PIPES

Sl.No.	Description	Rate up to 5 Kms Lead including Loading, unloading and stacking	Rate for every additional 1 KM lead or part thereof.	Rate up to 5 Kms Lead including Loading, unloading and stacking	Rate for every additional 1 KM lead or part thereof.
1	Conveyance of R.C.C plain ended pipes on all weathered roads including loading, unloading and stacking (per Meter) SoR for 2020-21				
		NP - 2 Class		NP - 3 Class & NP - 4 Class	
	80 mm dia.	4.60	0.20		
	100 mm dia.	6.12	0.20		
	150 mm dia.	9.19	0.37		
	200 mm dia.	12.24	0.37		
	225 mm dia.	13.78	0.59		
	250 mm dia.	15.31	0.59		
	300 mm dia.	21.45	0.78	59.71	1.56
	350 mm dia.	30.62	1.75	64.31	1.75
	400 mm dia.	33.69	1.94	76.56	2.32
	450 mm dia.	44.40	2.32	82.68	2.71
	500 mm dia.	47.47	2.71	90.33	2.71
	600 mm dia.	68.89	4.27	136.25	6.03
	700 mm dia.	87.27	6.03	151.57	6.99
	800 mm dia.	102.58	6.03	182.19	6.99
	900 mm dia.	117.88	6.03	238.83	13.20
	1000 mm dia.	174.53	12.42	287.82	13.20
	1100 mm dia.	191.36	12.42	312.32	14.36
	1200 mm dia.	217.40	13.20	349.06	14.36
	1400 mm dia.	261.80	13.20	474.61	14.95
	1600 mm dia.	303.14	13.20	569.52	14.95
	1800 mm dia.	349.06	13.20	759.36	20.98

7. S o R FOR CONVEYANCE OF R.C.C. S/S PIPES

Sl. No.	Description	Rate up to 5 Kms Lead including Loading, unloading & stacking	Rate for every additional 1 KM lead or part thereof.	Rate up to 5 Kms Lead including Loading, unloading and stacking	Rate for every additional 1 KM lead or part thereof.
1	Conveyance of R.C.C. Socket and Spigot pipes on all-weather roads including loading, unloading and stacking (per Meter of effective length)				
	Size	NP - 2 & P1 Class		NP – 3 & NP - 4 Class	
	80 mm dia.	6.12	0.18		
	100 mm dia.	6.12	0.35		
	150 mm dia.	10.72	0.35		
	200 mm dia.	13.78	0.70		
	225 mm dia.	15.31	0.70		
	250 mm dia.	16.84	1.59		
	300 mm dia.	27.57	1.76	72.43	2.12
	350 mm dia.	32.14	1.94	78.74	2.46
	400 mm dia.	32.14	2.29	97.64	4.60
	450 mm dia.	45.93	2.46	107.08	4.60
	500 mm dia.	50.52	2.66	118.11	4.95
	600 mm dia.	65.83	4.60	159.04	7.05
	700 mm dia.	81.13	4.95	214.15	13.94
	800 mm dia.	111.75	7.58	253.53	13.94
	900 mm dia.	166.88	13.59	292.89	13.94
	1000 mm dia.	189.84	13.59	308.64	13.94
	1100 mm dia.	214.33	13.94	330.69	13.94
	1200 mm dia.	238.83	13.94	370.05	14.28
	1400 mm dia.	297.01	13.94	496.03	14.28
	1600 mm dia.	352.13	14.28	585.79	15.35
	1800 mm dia.	436.32	14.28	781.05	21.00
		P2 – Class		P3 – Class	
	80 mm dia.	6.12	0.18	6.12	0.18
	100 mm dia.	6.12	0.35	6.12	0.35

	150 mm dia.	10.72	0.35	10.72	0.35
	200 mm dia.	13.78	0.70	18.37	1.59
	225 mm dia.	18.37	1.59	21.45	1.76
	250 mm dia.	19.90	1.76	26.02	1.94
	300 mm dia.	38.27	2.12	44.40	2.29
	350 mm dia.	47.47	2.46	61.24	2.66
	400 mm dia.	56.64	2.66	81.13	4.60
	450 mm dia.	71.95	4.42	101.06	4.60
	500 mm dia.	81.13	4.60	122.48	6.89
	600 mm dia.	107.18	4.60	177.59	8.82
	700 mm dia.	160.74	9.35	258.73	13.94
	800 mm dia.	212.81	13.24	330.69	13.94
	900 mm dia.	258.73	13.94		
	1000 mm dia.	318.44	14.28		

8. S o R FOR A.C. PIPES

Sl.No	Description									
1	2									
1	Manufacture, Supply of A.C. Pressure pipes (Mazza process) as per BIS No: 1592/2003as amended from time to time duly marked with BIS mark, including cost of material, incidental handling, loading and packing charges, but exclusive of transportation, unloading, stacking at departmental stores, and excluding all taxes. The pipes shall be tested at factory premises confirming to IS Code 1592/2003.									
	Size	Unit	SoR For 2022-23							
			Code	Class - 15	Code	Class - 20	Code	Class - 25		
	80 mm dia.	Rate/Meter	MAT-05915	226	MAT-05933	247	MAT-05951	310		
	100 mm dia.	Rate/Meter	MAT-05916	298	MAT-05934	379	MAT-05952	465		
	125 mm dia.	Rate/Meter	MAT-05917	389	MAT-05935	485	MAT-05953	608		
	150 mm dia.	Rate/Meter	MAT-05918	547	MAT-05936	680	MAT-05954	856		
	200 mm dia.	Rate/Meter	MAT-05919	908	MAT-05937	1161	MAT-05955	1474		
	250 mm dia.	Rate/Meter	MAT-05920	1153	MAT-05938	1492	MAT-05956	1868		
	300 mm dia.	Rate/Meter	MAT-05921	1612	MAT-05939	2096	MAT-05957	2677		
	350 mm dia.	Rate/Meter	MAT-05922	1965	MAT-05940	2553	MAT-05958	3217		
	400 mm dia.	Rate/Meter	MAT-05923	2554	MAT-05941	3338	MAT-05959	4144		
	450 mm dia.	Rate/Meter	MAT-05924	3028	MAT-05942	4018	MAT-05960	5031		
	500 mm dia.	Rate/Meter	MAT-05925	3742	MAT-05943	4915	MAT-05961	6172		
	600 mm dia.	Rate/Meter	MAT-05926	5318	MAT-05944	6943	MAT-05962	8847		
	700 mm dia.	Rate/Meter	MAT-05927	7041	MAT-05945	9550	MAT-05963	12348		
	750 mm dia.	Rate/Meter	MAT-05928	8023	MAT-05946	11023	MAT-05964	14131		
	800 mm dia.	Rate/Meter	MAT-05929	9181	MAT-05947	12490	MAT-05965	16029		
	850 mm dia.	Rate/Meter	MAT-05930	10297	MAT-05948	14053	MAT-05966	18050		
	900 mm dia.	Rate/Meter	MAT-05931	11480	MAT-05949	15696	MAT-05967	20191		
	1000 mm dia.	Rate/Meter	MAT-05932	14172	MAT-05950	19273	MAT-05968	24829		
2	Lowering, laying and jointing of AC pressure pipes with AC couplings or CID joints complete with Rubber rings in readymade trenches true to alignment and gradient including filling with water lead up to 500 mts and testing to required pressure including all sundries but excluding cost of jointing materials and conveyance from source of supply as per BIS No. 6530/1972									
	80 mm dia.	Rate/Meter	LAB-00697	59	LAB-00715	59	LAB-00733	59		
	100 mm dia.	Rate/Meter	LAB-00698	85	LAB-00716	85	LAB-00734	85		

	125 mm dia.	Rate/Meter		LAB-00699	94	LAB-00717	94	LAB-00735	94
	150 mm dia.	Rate/Meter		LAB-00700	112	LAB-00718	112	LAB-00736	112
	200 mm dia.	Rate/Meter		LAB-00701	147	LAB-00719	147	LAB-00737	147
	250 mm dia.	Rate/Meter		LAB-00702	177	LAB-00720	177	LAB-00738	177
	300 mm dia.	Rate/Meter		LAB-00703	217	LAB-00721	217	LAB-00739	217
	350 mm dia.	Rate/Meter		LAB-00704	367	LAB-00722	367	LAB-00740	367
	400 mm dia.	Rate/Meter		LAB-00705	554	LAB-00723	554	LAB-00741	554
	450 mm dia.	Rate/Meter		LAB-00706	673	LAB-00724	673	LAB-00742	673
	500 mm dia.	Rate/Meter		LAB-00707	855	LAB-00725	855	LAB-00743	855
	600 mm dia.	Rate/Meter		LAB-00708	919	LAB-00726	919	LAB-00744	919
	700 mm dia.	Rate/Meter		LAB-00709	1026	LAB-00727	1026	LAB-00745	1026
	750 mm dia.	Rate/Meter		LAB-00710	1141	LAB-00728	1141	LAB-00746	1141
	800 mm dia.	Rate/Meter		LAB-00711	1201	LAB-00729	1201	LAB-00747	1201
	850 mm dia.	Rate/Meter		LAB-00712	1282	LAB-00730	1282	LAB-00748	1282
	900 mm dia.	Rate/Meter		LAB-00713	1398	LAB-00731	1398	LAB-00749	1398
	1000 mm dia.	Rate/Meter		LAB-00714	1439	LAB-00732	1439	LAB-00750	1439
<p>1. The above rates of AC Pipes are based on the Cement cost of RS 3680/- per MT (Excluding all taxes and freight).</p> <p>2. The above rates of AC pipes are based on the Fiber cost of Rs 78,500/- per M.T (Excluding all taxes & Freight)</p> <p>For any Increase/ Decrease in the rate of cement, the price of AC pipe per Rmt shall be increased/decreased as under.</p> <p>$W \times 0.85 \times IC$ Where W = Weight of pipe in Kg's/Rmt IC = Increase/Decrease in cost of cement/Kg</p> <p>For any increase/decrease in the rate of fiber, the price of AC pipe per Rmt shall be increased/Decreased as under :</p> <p>$W \times 0.15 \times IF$ Where : W=: Weight of pipe in Kg's/Rmt IF = Increase /Decrease in cost of fiber/Kg</p>									
Note:	<p>1) The Fiber rates are to be obtained from A.C. Pipe manufacturer of "Mazza" process.</p> <p>2) The cement rate shall be communicated by the sub-committee of Board of Chief engineers.</p>								
	Transportation of AC pressure pipes at site of work anywhere in Andhra Pradesh on motor able roads for full truck loads including transit insurance, unloading, and stacking at site of work etc. Complete (AC Couplings and Rubber rings are to be supplied free of transportation charges).							5% on the basic cost of corresponding AC Pressure pipes.	

9. S o R FOR A.C. COUPLINGS

Sl. No.	Description									
1	Manufacture, Supply of A.C Couplings suitable to A.C. Pressure pipes (Mazza process) as per BIS: 1592/2003 excluding cost of rubber rings to suit AC pressure pipes including cost of material, incidental handling, packing, transportation and unloading at site transit risk, but excluding all taxes and testing of joints as per IS Code.									
	Size	Unit	SoR For 2022-23							
			Code	Class – 15	Code	Class – 20	Code	Class – 25		
	80 mm dia.	Rate/Each	MAT-05969	112	MAT-05987	119	MAT-06005	138		
	100 mm dia.	Rate/Each	MAT-05970	143	MAT-05988	158	MAT-06006	187		
	125 mm dia.	Rate/Each	MAT-05971	183	MAT-05989	199	MAT-06007	240		
	150 mm dia.	Rate/Each	MAT-05972	211	MAT-05990	264	MAT-06008	326		
	200 mm dia.	Rate/Each	MAT-05973	387	MAT-05991	428	MAT-06009	543		
	250 mm dia.	Rate/Each	MAT-05974	454	MAT-05992	573	MAT-06010	727		
	300 mm dia.	Rate/Each	MAT-05975	593	MAT-05993	768	MAT-06011	988		
	350 mm dia.	Rate/Each	MAT-05976	766	MAT-05994	989	MAT-06012	1262		
	400 mm dia.	Rate/Each	MAT-05977	1181	MAT-05995	1540	MAT-06013	1968		
	450 mm dia.	Rate/Each	MAT-05978	1415	MAT-05996	1862	MAT-06014	2390		
	500 mm dia.	Rate/Each	MAT-05979	1685	MAT-05997	2251	MAT-06015	2872		
	600 mm dia.	Rate/Each	MAT-05980	2082	MAT-05998	2617	MAT-06016	3347		
	700 mm dia.	Rate/Each	MAT-05981	2732	MAT-05999	3682	MAT-06017	4786		
	750 mm dia.	Rate/Each	MAT-05982	3084	MAT-06000	4215	MAT-06018	5441		
	800 mm dia.	Rate/Each	MAT-05983	3499	MAT-06001	4744	MAT-06019	6140		
	850 mm dia.	Rate/Each	MAT-05984	3897	MAT-06002	5306	MAT-06020	6883		
	900 mm dia.	Rate/Each	MAT-05985	4313	MAT-06003	5899	MAT-06021	7659		
	1000 mm dia.	Rate/Each	MAT-05986	5265	MAT-06004	7171	MAT-06022	9347		

1. The above rates of AC Coupling are based on the Cement cost of RS 3680/- per MT (Excluding all taxes and freight).
2. The above rates of AC Coupling are based on the Fiber cost of Rs 78,500/- per M.T (excluding all taxes & Fright)

For any Increase/ Decrease in the rate of cement, the price of AC Coupling per Each shall be increased/decreased as under.

$W \times 0.85 \times IC$ Where W = Weight of Coupling in Kgs/each

IC = Increase/Decrease in cost of cement/kg

For any increase/decrease in the rate of fiber, the price of AC Coupling per each shall be increased/Decreased as under:

$W \times 0.15 \times IF$ Where: W= Weight of Coupling in Kgs/Each

IF = Increase /Decrease in cost of fiber/kg

The Fiber rates are to be obtained from A.C. Pipe manufacturer of “Mazza” process.

10. S o R FOR RUBBER RINGS TO SUIT A.C. COUPLINGS

Sl. No.	Description								
1	Schedule of rate for supply of Rubber rings manufactured as per BIS: 5382/1988 with BIS Mark embossed per each set suitable for A.C. Couplings including cost of material, incidental, handling, packing and transportation and unloading at site transit risk etc., but excluding all taxes. The Rubber Rings shall be tested at the factory premises confirming to B.I.S 5382/1988								
	Size	Unit	SoR for 2022-23						
			Code	Class - 15	Code	Class - 20	Code	Class - 25	
	80 mm dia.	Each Set	MAT-06023	89	MAT-06041	89	MAT-06059	89	
	100 mm dia.	Each Set	MAT-06024	110	MAT-06042	110	MAT-06060	110	
	125 mm dia.	Each Set	MAT-06025	142	MAT-06043	142	MAT-06061	142	
	150 mm dia.	Each Set	MAT-06026	180	MAT-06044	180	MAT-06062	180	
	200 mm dia.	Each Set	MAT-06027	187	MAT-06045	187	MAT-06063	187	
	250 mm dia.	Each Set	MAT-06028	217	MAT-06046	217	MAT-06064	217	
	300 mm dia.	Each Set	MAT-06029	217	MAT-06047	217	MAT-06065	217	
	350 mm dia.	Each Set	MAT-06030	246	MAT-06048	246	MAT-06066	246	
	400 mm dia.	Each Set	MAT-06031	301	MAT-06049	301	MAT-06067	301	
	450 mm dia.	Each Set	MAT-06032	353	MAT-06050	353	MAT-06068	353	
	500 mm dia.	Each Set	MAT-06033	408	MAT-06051	408	MAT-06069	408	
	600 mm dia.	Each Set	MAT-06034	464	MAT-06052	464	MAT-06070	464	
	700 mm dia.	Each Set	MAT-06035	960	MAT-06053	960	MAT-06071	960	
	750 mm dia.	Each Set	MAT-06036	999	MAT-06054	999	MAT-06072	999	
	800 mm dia.	Each Set	MAT-06037	1074	MAT-06055	1074	MAT-06073	1074	
	850 mm dia.	Each Set	MAT-06038	1195	MAT-06056	1195	MAT-06074	1195	
	900 mm dia.	Each Set	MAT-06039	1257	MAT-06057	1257	MAT-06075	1257	
	1000 mm dia.	Each Set	MAT-06040	1393	MAT-06058	1393	MAT-06076	1393	

11. S o R FOR PRE-STRESSED (NON-CYLINDER) CONCRETE PIPES FOR THE YEAR 2022-23

Sl.No.	Description													
1	Manufacture, Supply, Delivery of Pre-stressed (Non-cylinder) concrete pipes conforming to IS 784/2001 ex-factory excluding transportation, taxes For the following Field/Site Test Pressures. (The manufacture shall design the pipes as per the IS Code 784-2001)													
	Size	Unit	SoR for 2022-23.											
			Code	6 Kg/cm2	Code	8 Kg/cm2	Code	10 Kg/cm2	Code	12 Kg/cm2	Code	14 Kg/cm2	Code	16 Kg/cm2
	350 MM DIA.	Meter	MAT-06077	3614	MAT-06096	3627	MAT-06115	3641	MAT-06134	3660	MAT-06153	3733	MAT-06172	3863
	400 MM DIA.	Meter	MAT-06078	3883	MAT-06097	3912	MAT-06116	3954	MAT-06135	4006	MAT-06154	4079	MAT-06173	4141
	450 MM DIA.	Meter	MAT-06079	4128	MAT-06098	4148	MAT-06117	4195	MAT-06136	4276	MAT-06155	4386	MAT-06174	4481
	500 MM DIA.	Meter	MAT-06080	4469	MAT-06099	4487	MAT-06118	4524	MAT-06137	4619	MAT-06156	4716	MAT-06175	4854
	600 MM DIA.	Meter	MAT-06081	5129	MAT-06100	5166	MAT-06119	5221	MAT-06138	5381	MAT-06157	5553	MAT-06176	5723
	700 MM DIA.	Meter	MAT-06082	6014	MAT-06101	6100	MAT-06120	6243	MAT-06139	6421	MAT-06158	6607	MAT-06177	6865
	800 MM DIA.	Meter	MAT-06083	7296	MAT-06102	7459	MAT-06121	7632	MAT-06140	7863	MAT-06159	8101	MAT-06178	8477
	900 MM DIA.	Meter	MAT-06084	8371	MAT-06103	8586	MAT-06122	8811	MAT-06141	9188	MAT-06160	9480	MAT-06179	10167
	1000 MM DIA.	Meter	MAT-06085	9867	MAT-06104	10149	MAT-06123	10444	MAT-06142	10740	MAT-06161	11102	MAT-06180	11894
	1100 MM DIA.	Meter	MAT-06086	11050	MAT-06105	11373	MAT-06124	11734	MAT-06143	12095	MAT-06162	12475	MAT-06181	13449
	1200	Meter	MAT-06087	12419	MAT-06106	12846	MAT-06125	13249	MAT-06144	13538	MAT-06163	14089	MAT-06182	15493

	MM DIA.													
	1300 MM DIA.	Meter	MAT-06088	14074	MAT-06107	14555	MAT-06126	15037	MAT-06145	15522	MAT-06164	16915	MAT-06183	17525
	1400 MM DIA.	Meter	MAT-06089	16290	MAT-06108	16854	MAT-06127	17430	MAT-06146	18383	MAT-06165	19548	MAT-06184	20409
	1500 MM DIA.	Meter	MAT-06090	18393	MAT-06109	19063	MAT-06128	19693	MAT-06147	21377	MAT-06166	22146	MAT-06185	24739
	1600 MM DIA.	Meter	MAT-06091	20681	MAT-06110	21403	MAT-06129	22129	MAT-06148	24144	MAT-06167	25015	MAT-06186	27524
	1700 MM DIA.	Meter	MAT-06092	22191	MAT-06111	23032	MAT-06130	23860	MAT-06149	25982	MAT-06168	28786	MAT-06187	30082
	1800 MM DIA.	Meter	MAT-06093	24538	MAT-06112	26104	MAT-06131	27525	MAT-06150	29846	MAT-06169	30952	MAT-06188	34273
	1900 MM DIA.	Meter	MAT-06094	26190	MAT-06113	27631	MAT-06132	30062	MAT-06151	31787	MAT-06170	34555	MAT-06189	37211
	2000 MM DIA.	Meter	MAT-06095	28790	MAT-06114	30586	MAT-06133	32190	MAT-06152	35124	MAT-06171	38765	MAT-06190	40294
2	Cost of lowering, laying jointing, testing to Hydrostatic field test pressure as per IS: 783 including cost of Rubber Rings, cost transportation of water and emptying pipe line after completion of field testing etc., complete. (for a maximum depth of 4 Mtrs below GL)													
	350 MM DIA.	Meter	MAT-06191	320	MAT-06210	320	MAT-06229	320	MAT-06248	320	MAT-06267	320	MAT-06286	320
	400 MM	Meter	MAT-	345	MAT-	345	MAT-	345	MAT-	345	MAT-	345	MAT-	345

	DIA.		06192		06211		06230		06249		06268		06287	
	450 MM DIA.	Meter	MAT-06193	398	MAT-06212	398	MAT-06231	398	MAT-06250	398	MAT-06269	398	MAT-06288	398
	500 MM DIA.	Meter	MAT-06194	424	MAT-06213	424	MAT-06232	424	MAT-06251	424	MAT-06270	424	MAT-06289	424
	600 MM DIA.	Meter	MAT-06195	522	MAT-06214	522	MAT-06233	522	MAT-06252	522	MAT-06271	522	MAT-06290	522
	700 MM DIA.	Meter	MAT-06196	610	MAT-06215	610	MAT-06234	610	MAT-06253	610	MAT-06272	610	MAT-06291	610
	800 MM DIA.	Meter	MAT-06197	691	MAT-06216	691	MAT-06235	691	MAT-06254	691	MAT-06273	691	MAT-06292	691
	900 MM DIA.	Meter	MAT-06198	756	MAT-06217	756	MAT-06236	756	MAT-06255	756	MAT-06274	756	MAT-06293	756
	1000 MM IA	Meter	MAT-06199	873	MAT-06218	873	MAT-06237	873	MAT-06256	873	MAT-06275	873	MAT-06294	873
	1100 MM IA	Meter	MAT-06200	982	MAT-06219	982	MAT-06238	982	MAT-06257	982	MAT-06276	982	MAT-06295	982
	1200 MMDIA.	Meter	MAT-06201	1087	MAT-06220	1087	MAT-06239	1087	MAT-06258	1087	MAT-06277	1087	MAT-06296	1087
	1300 MM DIA.	Meter	MAT-06202	1233	MAT-06221	1233	MAT-06240	1233	MAT-06259	1233	MAT-06278	1233	MAT-06297	1233
	1400 MM DIA.	Meter	MAT-06203	1395	MAT-06222	1395	MAT-06241	1395	MAT-06260	1395	MAT-06279	1395	MAT-06298	1395
	1500 MM DIA.	Meter	MAT-06204	1513	MAT-06223	1513	MAT-06242	1513	MAT-06261	1513	MAT-06280	1513	MAT-06299	1513
	1600 MM DIA.	Meter	MAT-06205	1695	MAT-06224	1695	MAT-06243	1695	MAT-06262	1695	MAT-06281	1695	MAT-06300	1695
	1700	Meter	MAT-	1845	MAT-	1845	MAT-	1845	MAT-	1845	MAT-	1604	MAT-	1845

	MM DIA.		06206		06225		06244		06263		06282		06301	
	1800 MM DIA.	Meter	MAT- 06207	1951	MAT- 06226	1951	MAT- 06245	1951	MAT- 06264	1951	MAT- 06283	1951	MAT- 06302	1951
	1900 MM DIA.	Meter	MAT- 06208	2060	MAT- 06227	2060	MAT- 06246	2060	MAT- 06265	2060	MAT- 06284	2060	MAT- 06303	2060
	2000 MM DIA.	Meter	MAT- 06209	2171	MAT- 06228	2171	MAT- 06247	2171	MAT- 06266	2171	MAT- 06285	2171	MAT- 06304	2171
3	Conveyance of Pre-stressed (Non Cylinder) Concrete Pipes and accessories including loading at Factory, unloading at site and stacking for the following sizes: (Minimum distance of 100 Kms to be considered, if the distance is less by 100 Kms from Factory to Site)													
	350 MM DIA.	Per K.M/M		2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
	400 MM DIA.	Per K.M/M		2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
	450 MM DIA.	Per K.M/M		2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54
	500 MM DIA.	Per K.M/M		2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66
	600 MM DIA.	Per K.M/M		3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02
	700 MM DIA.	Per K.M/M		4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95
	800 MM DIA.	Per K.M/M		4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95
	900 MM	Per K.M/M		4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95

	DIA.							
	1000 MM DIA.	Per K.M/M	7.97	7.97	7.97	7.97	7.97	7.97
	1100 MM DIA.	Per K.M/M	7.97	7.97	7.97	7.97	7.97	7.97
	1200 MM DIA.	Per K.M/M	15.21	15.21	15.21	15.21	15.21	15.21
	1300 MM DIA.	Per K.M/M	15.46	15.46	15.46	15.46	15.46	15.46
	1400 MM DIA.	Per K.M/M	15.46	15.46	15.46	15.46	15.46	15.46
	1500 MM DIA.	Per K.M/M	15.46	15.46	15.46	15.46	15.46	15.46
	1600 MM DIA.	Per K.M/M	17.27	17.27	17.27	17.27	17.27	17.27
	1700 MM DIA.	Per K.M/M	17.27	17.27	17.27	17.27	17.27	17.27
	1800 MM DIA.	Per K.M/M	17.63	17.63	17.63	17.63	17.63	17.63

	1900 MM DIA.	Per K.M/M		18.47		18.47		18.47		18.47		18.47		18.47
	2000 MM DIA.	Per K.M/M		18.47		18.47		18.47		18.47		18.47		18.47
4	Cost of Machine End pair (Socket +Spigot) for providing M.S Specials on PSC pipelines excluding cost of M.S barrel including cost and conveyance to site etc., complete.													
	350 MM DIA.	Per Pair	MAT-06305	12430	MAT-06315	12430	MAT-06334	12430	MAT-06353	12430	MAT-06372	12430	MAT-06391	12430
	400 MM DIA.	Per Pair	MAT-06306	14190	MAT-06316	14190	MAT-06335	14190	MAT-06354	14190	MAT-06373	14190	MAT-06392	14190
	450 MM DIA.	Per Pair	MAT-06307	16060	MAT-06317	16060	MAT-06336	16060	MAT-06355	16060	MAT-06374	16060	MAT-06393	16060
	500 MM DIA.	Per Pair	MAT-06308	17930	MAT-06318	17930	MAT-06337	17930	MAT-06356	17930	MAT-06375	17930	MAT-06394	17930
	600 MM DIA.	Per Pair	MAT-06309	21340	MAT-06319	21340	MAT-06338	21340	MAT-06357	21340	MAT-06376	21340	MAT-06395	21340
	700 MM DIA.	Per Pair	MAT-06310	24970	MAT-06320	24970	MAT-06339	24970	MAT-06358	24970	MAT-06377	24970	MAT-06396	24970
	800 MM DIA.	Per Pair	MAT-06311	28600	MAT-06321	28600	MAT-06340	28600	MAT-06359	28600	MAT-06378	28600	MAT-06397	28600
	900 MM DIA.	Per Pair	MAT-06312	32450	MAT-06322	32450	MAT-06341	32450	MAT-06360	32450	MAT-06379	32450	MAT-06398	32450
	1000 MM DIA.	Per Pair	MAT-06313	35090	MAT-06323	35090	MAT-06342	35090	MAT-06361	35090	MAT-06380	35090	MAT-06399	35090
	1100	Per	MAT-06314	38830	MAT-06324	38830	MAT-06343	38830	MAT-06362	38830	MAT-06381	38830	MAT-06400	38830

	MM DIA.	Pair												
	1200 MM DIA.	Per Pair		42350	MAT-06325	42350	MAT-06344	42350	MAT-06363	42350	MAT-06382	42350	MAT-06401	42350
	1300 MM DIA.	Per Pair		45760	MAT-06326	45760	MAT-06345	45760	MAT-06364	45760	MAT-06383	45760	MAT-06402	45760
	1400 MM DIA.	Per Pair		54450	MAT-06327	54450	MAT-06346	54450	MAT-06365	54450	MAT-06384	54450	MAT-06403	54450
	1500 MM DIA.	Per Pair		64240	MAT-06328	64240	MAT-06347	64240	MAT-06366	64240	MAT-06385	64240	MAT-06404	64240
	1600 MM DIA.	Per Pair		71830	MAT-06329	71830	MAT-06348	71830	MAT-06367	71830	MAT-06386	71830	MAT-06405	71830
	1700 MM DIA.	Per Pair		80850	MAT-06330	80850	MAT-06349	80850	MAT-06368	80850	MAT-06387	80850	MAT-06406	80850
	1800 MM DIA.	Per Pair		92730	MAT-06331	92730	MAT-06350	92730	MAT-06369	92730	MAT-06388	92730	MAT-06407	92730
	1900 MM DIA.	Per Pair		107580	MAT-06332	107580	MAT-06351	107580	MAT-06370	107580	MAT-06389	107580	MAT-06408	107580
	2000 MM DIA.	Per Pair		125950	MAT-06333	125950	MAT-06352	125950	MAT-06371	125950	MAT-06390	125950	MAT-06409	125950

5	Cost of MS Flanges including cost of Bolts, Nuts, Rubber Packing etc., complete and flange thickness confirming to IS:7322 - 1985 and flange dimensions confirming to IS:1538-1993 excluding Cost of MS barrel including cost and conveyance to site, excluding Taxes etc., complete. (Rate per each Flange).							
	Diameter and thickness	Unit	Code	Rate	Diameter and thickness	Unit	Code	Rate
	80 mm dia. x 15 mm thick	Each Flange	MAT-06410	891	500mm dia. x 20 mm Thick	Each Flange	MAT-06420	9097
	100 mm dia. x 15 mm thick	Each Flange	MAT-06411	1221	600 mm dia. x 20 mm thick	Each Flange	MAT-06421	11451
	125 mm dia. x 15 mm thick	Each Flange	MAT-06412	1474	700 mm dia. x 25 mm thick	Each Flange	MAT-06422	16170
	150 mm dia. x 15 mm thick	Each Flange	MAT-06413	1958	750 mm dia. x 25 mm thick	Each Flange	MAT-06423	17776
	200 mm dia. x 15 mm thick	Each Flange	MAT-06414	2453	800 mm dia. x 25 mm thick	Each Flange	MAT-06424	19910
	250 mm dia. x 15 mm thick	Each Flange	MAT-06415	3190	900 mm dia. x 25 mm thick	Each Flange	MAT-06425	22869
	300 mm dia. x 15 mm thick	Each Flange	MAT-06416	3630	1000 mm dia. x 25 mm thick	Each Flange	MAT-06426	26950
	350 mm dia. x 18 mm thick	Each Flange	MAT-06417	5269	1050 mm dia. x 25 mm thick	Each Flange	MAT-06427	28622
	400 mm dia. x 18 mm thick	Each Flange	MAT-06418	6578	1100 mm dia. x 25 mm thick	Each Flange	MAT-06428	30866
	450 mm dia. x 18 mm thick	Each Flange	MAT-06419	7645	1200 mm dia. x 32 mm thick	Each Flange	MAT-06429	40887

Note:

Note: a) The above rate of PSC pipes are based on the HT wire cost of Rs.73000/-MT (excluding all taxes and freight).
and cement price of Rs.3680/- per MT (excluding all taxes and freight)

The rates may be revised depending upon the increase/decrease in the cost of HT wire and cement. as per the following method. The cost of HT wire may be obtained from reputed firms like SAIL/TATA/ SS Ltd. etc.,

Revised Cost =Cost as per the above table +R1+R2.

R1= Variation (increase / decrease) in cost (Rs. per metre)due to change in the cost of HT Wire $=\frac{(H2-H1)}{1000} \times Wh$.

R2= Variation (increase / decrease) in cost (Rs. per metre)due to change in the cost of Cement $=\frac{(C2-C1)}{1000} \times Wc$.

H1 = Rs.73000/- H2 = Cost of HT Wire (Rs. Per MT excluding all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 3680/- C2 = Cost of Cement (Rs. Per MT excluding all taxes and freight) at the time of preparation of estimate

Wh=Weight of HT Wire required (Kg.) per metre of pipe. Wc= Weight of Cement required (Kg.) per metre of pipe.

The rates for MS flanges are considering MS Plates of Rs.72000/- per MT. Price variation to be released on actual weight of flange.

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

12. S o R FOR PRE-STRESSED (CYLINDER) CONCRETE PIPES FOR THE YEAR 2022-23

S. No.	Description																			
1	Manufacture, Supply, Delivery of BIS MARKED PRE-STRESSED (CYLINDER TYPE) CONCRETE PIPES as per IS: 784-2001 @ Ex-factory cost of pipes excluding Transportation, Laying, Jointing, Testing, Bends, Tees, Specials, taxes and duties etc., for following Field / Line / Site test pressures:																			
	Size	Unit	SoR For 2022-23																	
			Code	4 Kg/cm2	Code	6 Kg/cm2	Code	8 Kg/cm2	Code	10 Kg/cm2	Code	12 Kg/cm2	Code	14 Kg/cm2	Code	16 Kg/cm2	Code	18 Kg/cm2	Code	20 Kg/cm2
	400 MM DIA.	Meter	MAT-06430	6410	MAT-06448	6410	MAT-06466	6410	MAT-06484	6410	MAT-06502	6441	MAT-06520	6509	MAT-06538	6622	MAT-06556	6730	MAT-06574	6813
	450 MM DIA.	Meter	MAT-06431	6977	MAT-06449	6977	MAT-06467	6977	MAT-06485	7009	MAT-06503	7091	MAT-06521	7190	MAT-06539	7312	MAT-06557	7370	MAT-06575	7440
	500 MM DIA.	Meter	MAT-06432	7461	MAT-06450	7461	MAT-06468	7530	MAT-06486	7603	MAT-06504	7668	MAT-06522	7759	MAT-06540	7865	MAT-06558	7953	MAT-06576	8036
	600 MM DIA.	Meter	MAT-06433	8596	MAT-06451	8682	MAT-06469	8778	MAT-06487	8885	MAT-06505	8981	MAT-06523	9077	MAT-06541	9238	MAT-06559	9364	MAT-06577	9480
	700 MM DIA.	Meter	MAT-06434	9797	MAT-06452	9917	MAT-06470	10054	MAT-06488	10179	MAT-06506	10315	MAT-06524	10439	MAT-06542	10656	MAT-06560	10808	MAT-06578	10980
	800 MM DIA.	Meter	MAT-06435	11513	MAT-06453	11663	MAT-06471	11830	MAT-06489	12007	MAT-06507	12175	MAT-06525	12339	MAT-06543	12578	MAT-06561	12808	MAT-06579	13014
	900 MM DIA.	Meter	MAT-06436	13108	MAT-06454	13322	MAT-06472	13531	MAT-06490	13750	MAT-06508	13971	MAT-06526	14187	MAT-06544	14718	MAT-06562	15008	MAT-06580	15337
	1000 MM DIA.	Meter	MAT-06437	15714	MAT-06455	15972	MAT-06473	16237	MAT-06491	16511	MAT-06509	16774	MAT-06527	17044	MAT-06545	17736	MAT-06563	18115	MAT-06581	18493
	1100 MM DIA.	Meter	MAT-06438	17521	MAT-06456	17835	MAT-06474	18165	MAT-06492	18484	MAT-06510	18813	MAT-06528	19127	MAT-06546	19972	MAT-06564	20394	MAT-06582	20954
	1200 MM DIA.	Meter	MAT-06439	19524	MAT-06457	19906	MAT-06475	20281	MAT-06493	20667	MAT-06511	21065	MAT-06529	21444	MAT-06547	22445	MAT-06565	23040	MAT-06583	23593
	1300 MM DIA.	Meter	MAT-06440	21799	MAT-06458	22251	MAT-06476	22702	MAT-06494	23158	MAT-06512	23614	MAT-06530	24401	MAT-06548	25347	MAT-06566	25988	MAT-06584	26712

	1400 MM DIA.	Meter	MAT-06441	24370	MAT-06459	24924	MAT-06477	25490	MAT-06495	26103	MAT-06513	27123	MAT-06531	27902	MAT-06549	28890	MAT-06567	29241	MAT-06585	30507
	1500 MM DIA.	Meter	MAT-06442	28818	MAT-06460	29494	MAT-06478	30089	MAT-06496	30696	MAT-06514	31887	MAT-06532	32564	MAT-06550	33488	MAT-06568	34872	MAT-06586	35625
	1600 MM DIA.	Meter	MAT-06443	32492	MAT-06461	33382	MAT-06479	34153	MAT-06497	35426	MAT-06515	36201	MAT-06533	37041	MAT-06551	38656	MAT-06569	39512	MAT-06587	40363
	1700 MM DIA.	Meter	MAT-06444	34969	MAT-06462	35949	MAT-06480	36734	MAT-06498	38187	MAT-06516	39059	MAT-06534	40854	MAT-06552	41928	MAT-06570	42900	MAT-06588	43872
	1800 MM DIA.	Meter	MAT-06445	38206	MAT-06463	39293	MAT-06481	41416	MAT-06499	42736	MAT-06517	44025	MAT-06535	46441	MAT-06553	48497	MAT-06571	49600	MAT-06589	50724
	1900 MM DIA.	Meter	MAT-06446	44642	MAT-06464	45616	MAT-06482	47350	MAT-06500	48366	MAT-06518	50486	MAT-06536	51691	MAT-06554	53023	MAT-06572	54250	MAT-06590	55468
	2000 MM DIA.	Meter	MAT-06447	47119	MAT-06465	48905	MAT-06483	50094	MAT-06501	51301	MAT-06519	53671	MAT-06537	54999	MAT-06555	56487	MAT-06573	57854	MAT-06591	59209
2	Cost of laying jointing, testing to Hydrostatic field test pressure including cost of site welding and fixing of Polypropylene Diapher cloth, cost transportation of water and emptying pipe line after completion of field testing.																			
	400 MM DIA.	Meter	MAT-06592	659	MAT-06610	659	MAT-06628	659	MAT-06646	659	MAT-06664	659	MAT-06682	659	MAT-06700	659	MAT-06718	659	MAT-06736	659
	450 MM DIA.	Meter	MAT-06593	775	MAT-06611	775	MAT-06629	775	MAT-06647	775	MAT-06665	775	MAT-06683	775	MAT-06701	775	MAT-06719	775	MAT-06737	775
	500 MM DIA.	Meter	MAT-06594	844	MAT-06612	844	MAT-06630	844	MAT-06648	844	MAT-06666	844	MAT-06684	844	MAT-06702	844	MAT-06720	844	MAT-06738	844
	600 MM DIA.	Meter	MAT-06595	988	MAT-06613	988	MAT-06631	988	MAT-06649	988	MAT-06667	988	MAT-06685	988	MAT-06703	988	MAT-06721	988	MAT-06739	988
	700 MM DIA.	Meter	MAT-06596	1124	MAT-06614	1124	MAT-06632	1124	MAT-06650	1124	MAT-06668	1124	MAT-06686	1124	MAT-06704	1124	MAT-06722	1124	MAT-06740	1124
	800 MM DIA.	Meter	MAT-06597	1292	MAT-06615	1292	MAT-06633	1292	MAT-06651	1292	MAT-06669	1292	MAT-06687	1292	MAT-06705	1292	MAT-06723	1292	MAT-06741	1292
	900 MM DIA.	Meter	MAT-06598	1456	MAT-06616	1456	MAT-06634	1456	MAT-06652	1456	MAT-06670	1456	MAT-06688	1456	MAT-06706	1456	MAT-06724	1456	MAT-06742	1456
	1000 MM	Meter	MAT-	1595	MAT-06617	1595	MAT-06635	1595	MAT-06653	1595	MAT-06671	1595	MAT-06689	1595	MAT-06707	1595	MAT-06725	1595	MAT-06743	1595

	DIA.		06599																	
	1100 MM DIA.	Meter	MAT-06600	1809	MAT-06618	1809	MAT-06636	1809	MAT-06654	1809	MAT-06672	1809	MAT-06690	1809	MAT-06708	1809	MAT-06726	1809	MAT-06744	1809
	1200 MM DIA.	Meter	MAT-06601	1973	MAT-06619	1973	MAT-06637	1973	MAT-06655	1973	MAT-06673	1973	MAT-06691	1973	MAT-06709	1973	MAT-06727	1973	MAT-06745	1973
	1300 MM DIA.	Meter	MAT-06602	2112	MAT-06620	2112	MAT-06638	2112	MAT-06656	2112	MAT-06674	2112	MAT-06692	2112	MAT-06710	2112	MAT-06728	2112	MAT-06746	2112
	1400 MM DIA.	Meter	MAT-06603	2324	MAT-06621	2324	MAT-06639	2324	MAT-06657	2324	MAT-06675	2324	MAT-06693	2324	MAT-06711	2324	MAT-06729	2324	MAT-06747	2324
	1500 MM DIA.	Meter	MAT-06604	2580	MAT-06622	2580	MAT-06640	2580	MAT-06658	2580	MAT-06676	2580	MAT-06694	2580	MAT-06712	2580	MAT-06730	2580	MAT-06748	2580
	1600 MM DIA.	Meter	MAT-06605	2793	MAT-06623	2793	MAT-06641	2793	MAT-06659	2793	MAT-06677	2793	MAT-06695	2793	MAT-06713	2793	MAT-06731	2793	MAT-06749	2793
	1700 MM DIA.	Meter	MAT-06606	3146	MAT-06624	3146	MAT-06642	3146	MAT-06660	3146	MAT-06678	3146	MAT-06696	3146	MAT-06714	3146	MAT-06732	3146	MAT-06750	3146
	1800 MM DIA.	Meter	MAT-06607	3335	MAT-06625	3335	MAT-06643	3335	MAT-06661	3335	MAT-06679	3335	MAT-06697	3335	MAT-06715	3335	MAT-06733	3335	MAT-06751	3335
	1900 MM DIA.	Meter	MAT-06608	3637	MAT-06626	3637	MAT-06644	3637	MAT-06662	3637	MAT-06680	3637	MAT-06698	3637	MAT-06716	3637	MAT-06734	3637	MAT-06752	3637
	2000 MM DIA.	Meter	MAT-06609	3872	MAT-06627	3872	MAT-06645	3872	MAT-06663	3872	MAT-06681	3872	MAT-06699	3872	MAT-06717	3872	MAT-06735	3872	MAT-06753	3872
3	Conveyance of Pre-stressed (Cylinder) Concrete Pipes and accessories including loading at Factory, unloading at site and stacking for the following sizes: (Minimum distance of 100 Kms to be considered, if the distance is less by 100 Kms from Factory to Site).																			
	400 MM DIA.	Per KM/M	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81
	450 MM DIA.	Per KM/M	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81
	500 MM DIA.	Per KM/M	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54
	600 MM DIA.	Per KM/M	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90

	700 MM DIA.	Per KM/M	4.59	4.59	4.59	4.59	4.59	4.59	4.59	4.59	4.59
	800 MM DIA.	Per KM/M	4.59	4.59	4.59	4.59	4.59	4.59	4.59	4.59	4.59
	900 MM DIA.	Per KM/M	4.59	4.59	4.59	4.59	4.59	4.59	4.59	4.59	4.59
	1000 MM DIA.	Per KM/M	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25
	1100 MM DIA.	Per KM/M	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25
	1200 MM DIA.	Per KM/M	14.37	14.37	14.37	14.37	14.37	14.37	14.37	14.37	14.37
	1300 MM DIA.	Per KM/M	14.37	14.37	14.37	14.37	14.37	14.37	14.37	14.37	14.37
	1400 MM DIA.	Per KM/M	14.37	14.37	14.37	14.37	14.37	14.37	14.37	14.37	14.37
	1500 MM DIA.	Per KM/M	14.37	14.37	14.37	14.37	14.37	14.37	14.37	14.37	14.37
	1600 MM DIA.	Per KM/M	14.37	14.37	14.37	14.37	14.37	14.37	14.37	14.37	14.37
	1700 MM DIA.	Per KM/M	17.27	17.27	17.27	17.27	17.27	17.27	17.27	17.27	17.27
	1800 MM DIA.	Per KM/M	17.27	17.27	17.27	17.27	17.27	17.27	17.27	17.27	17.27
	1900 MM DIA.	Per KM/M	17.27	17.27	17.27	17.27	17.27	17.27	17.27	17.27	17.27
	2000 MM DIA.	Per KM/M	18.35	18.35	18.35	18.35	18.35	18.35	18.35	18.35	18.35

Note:

Note: The rates of PCCP pipes which were incorporated in the SoR are based on the following raw materials cost.

HT Wire: - Rs.73000/- (excluding all taxes and freight)

HR Coil (Hot Rolled): - Rs.77500/- (excluding all taxes and freight)

Cement Cost Rs. 3680/- per MT (excluding all taxes and freight)

The rates may be revised depending upon the increase/ decrease in the cost of raw materials (landed price) as per the following method.

Revised Cost = Cost as per the above table + R1 + R2 + R3.

R1 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of HT Wire = $(H2 - H1) / 1000 \times W_h$.

R2 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of HR Coil = $(R2 - R1) / 1000 \times W_r$.

R3 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of Cement = $(C2 - C1) / 1000 \times W_c$.

H1 = Rs.73000/- H2 = Cost of HT Wire (Rs. Per MT excluding all taxes and freight) at the time of preparation of estimate.

R1 = Rs.77500/- R2 = Cost of HR Coil (Rs. Per MT excluding all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 3680/- C2 = Cost of Cement (Rs. Per MT excluding all taxes and freight) at the time of preparation of estimate

W_h = Weight of HT Wire required (Kg.) per metre of pipe. W_c = Weight of Cement required (Kg.) per meter of pipe.

W_r = Weight of HR Coil required (kg) per metre of pipe.

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate

13. S o R FOR BAR WRAPPED STEEL CYLINDRICAL (BWSC) PIPES FOR THE YEAR 2022-23

Sl.No.	Description																					
1	BAR WRAPPED STEEL CYLINDRICAL (BWSC) PIPES (BIS MARKED) AS PER IS: 15155-2002 @ Ex-factory cost of pipes including Bends as per IS:7322 excluding Transportation, Laying, Jointing, Testing, Tees, Specials, taxes and duties etc., for following Field / Line / Site test pressures of Bar Wrapped Steel Cylindrical Pipes:																					
	Size	Unit	Code	4 -12 Kg/c m ²	Code	14 Kg/cm ²	Code	16 Kg/cm ²	Code	18 Kg/c m ²	Code	20 Kg/cm ²	Code	22 Kg/cm ²	Code	24 Kg/c m ²	Code	26 Kg/cm ²	Code	28 Kg/cm ²	Code	30 Kg/cm ²
	250 MM DIA.	Meter	MAT- 06754	3203	MAT- 06767	3203	MAT- 06780	3203	MAT- 06793	3203	MAT- 06806	3203	MAT- 06819	3203	MAT- 06832	3520	MAT- 06845	3645	MAT- 06858	3708	MAT- 06871	3875
	300 MM DIA.	Meter	MAT- 06755	3588	MAT- 06768	3588	MAT- 06781	3588	MAT- 06794	3588	MAT- 06807	3588	MAT- 06820	3775	MAT- 06833	4257	MAT- 06846	4430	MAT- 06859	4544	MAT- 06872	4752
	350 MM DIA.	Meter	MAT- 06756	4337	MAT- 06769	4337	MAT- 06782	4337	MAT- 06795	4415	MAT- 06808	4648	MAT- 06821	4899	MAT- 06834	5132	MAT- 06847	5364	MAT- 06860	5615	MAT- 06873	5813
	400 MM DIA.	Meter	MAT- 06757	4790	MAT- 06770	4790	MAT- 06783	4899	MAT- 06796	5216	MAT- 06809	5508	MAT- 06822	5816	MAT- 06835	6110	MAT- 06848	6421	MAT- 06861	6654	MAT- 06874	6969
	450 MM DIA.	Meter	MAT- 06758	5368	MAT- 06771	5414	MAT- 06784	5817	MAT- 06797	6188	MAT- 06810	6591	MAT- 06823	6907	MAT- 06836	7306	MAT- 06849	7592	MAT- 06862	7933	MAT- 06875	8478
	500 MM DIA.	Meter	MAT- 06759	5828	MAT- 06772	6265	MAT- 06785	6731	MAT- 06798	7226	MAT- 06811	7637	MAT- 06824	8179	MAT- 06837	8624	MAT- 06850	9023	MAT- 06863	9624	MAT- 06876	10141
	600 MM DIA.	Meter	MAT- 06760	7306	MAT- 06773	7852	MAT- 06786	8536	MAT- 06799	9186	MAT- 06812	9884	MAT- 06825	10564	MAT- 06838	11394	MAT- 06851	12160	MAT- 06864	12916	MAT- 06877	13456
	700 MM DIA.	Meter	MAT- 06761	8850	MAT- 06774	9881	MAT- 06787	10769	MAT- 06800	11681	MAT- 06813	12757	MAT- 06826	13681	MAT- 06839	14568	MAT- 06852	16014	MAT- 06865	16827	MAT- 06878	17477
	800 MM DIA.	Meter	MAT- 06762	10581	MAT- 06775	12063	MAT- 06788	13227	MAT- 06801	14466	MAT- 06814	15937	MAT- 06827	17087	MAT- 06840	18654	MAT- 06853	19980	MAT- 06866	21008	MAT- 06879	22063
	900 MM DIA.	Meter	MAT- 06763	12952	MAT- 06776	14598	MAT- 06789	16041	MAT- 06802	17608	MAT- 06815	19178	MAT- 06828	21076	MAT- 06841	22470	MAT- 06854	24292	MAT- 06867	25974	MAT- 06880	27502
	1000 MM DIA.	Meter	MAT- 06764	15273	MAT- 06777	17341	MAT- 06790	19499	MAT- 06803	21473	MAT- 06816	23215	MAT- 06829	24746	MAT- 06842	26943	MAT- 06855	28969	MAT- 06868	31780	MAT- 06881	33274
	1100 MM DIA.	Meter	MAT- 06765	20570	MAT- 06778	21035	MAT- 06791	23174	MAT- 06804	25542	MAT- 06817	27836	MAT- 06830	29915	MAT- 06843	33120	MAT- 06856	34857	MAT- 06869	37819	MAT- 06882	39887
	1200 MM DIA.	Meter	MAT- 06766	22472	MAT- 06779	24098	MAT- 06792	26688	MAT- 06805	29376	MAT- 06818	32101	MAT- 06831	34580	MAT- 06844	38082	MAT- 06857	41585	MAT- 06870	44800	MAT- 06883	46909
2	Cost of laying jointing, testing to Hydrostatic field test pressure including cost of site welding and fixing of Polypropylene Diapher cloth, cost transportation of water and emptying pipe line after completion of field testing.																					
	250 MM DIA.	Meter	MAT- 06884	449	MAT- 06897	449	MAT- 06910	449	MAT- 06923	449	MAT- 06936	449	MAT- 06949	449	MAT- 06962	449	MAT- 06975	449	MAT- 06988	449	MAT- 07001	449
	300 MM DIA.	Meter	MAT- 06885	529	MAT- 06898	529	MAT- 06911	529	MAT- 06924	529	MAT- 06937	529	MAT- 06950	529	MAT- 06963	529	MAT- 06976	529	MAT- 06989	529	MAT- 07002	529
	350 MM DIA.	Meter	MAT- 06886	624	MAT- 06899	624	MAT- 06912	624	MAT- 06925	624	MAT- 06938	624	MAT- 06951	624	MAT- 06964	624	MAT- 06977	624	MAT- 06990	624	MAT- 07003	624

Public Health Items																						
	400 MM DIA.	Meter	MAT-06887	699	MAT-06900	699	MAT-06913	699	MAT-06926	699	MAT-06939	699	MAT-06952	699	MAT-06965	699	MAT-06978	699	MAT-06991	699	MAT-07004	699
	450 MM DIA.	Meter	MAT-06888	699	MAT-06901	699	MAT-06914	699	MAT-06927	699	MAT-06940	699	MAT-06953	699	MAT-06966	699	MAT-06979	699	MAT-06992	699	MAT-07005	699
	500 MM DIA.	Meter	MAT-06889	875	MAT-06902	875	MAT-06915	875	MAT-06928	875	MAT-06941	875	MAT-06954	875	MAT-06967	875	MAT-06980	875	MAT-06993	875	MAT-07006	875
	600 MM DIA.	Meter	MAT-06890	1076	MAT-06903	1076	MAT-06916	1076	MAT-06929	1076	MAT-06942	1076	MAT-06955	1076	MAT-06968	1076	MAT-06981	1076	MAT-06994	1076	MAT-07007	1076
	700 MM DIA.	Meter	MAT-06891	1253	MAT-06904	1253	MAT-06917	1253	MAT-06930	1253	MAT-06943	1253	MAT-06956	1253	MAT-06969	1253	MAT-06982	1253	MAT-06995	1253	MAT-07008	1253
	800 MM DIA.	Meter	MAT-06892	1426	MAT-06905	1426	MAT-06918	1426	MAT-06931	1426	MAT-06944	1426	MAT-06957	1426	MAT-06970	1426	MAT-06983	1426	MAT-06996	1426	MAT-07009	1426
	900 MM DIA.	Meter	MAT-06893	1676	MAT-06906	1676	MAT-06919	1676	MAT-06932	1676	MAT-06945	1676	MAT-06958	1676	MAT-06971	1676	MAT-06984	1676	MAT-06997	1676	MAT-07010	1676
	1000 MM DIA.	Meter	MAT-06894	1852	MAT-06907	1852	MAT-06920	1852	MAT-06933	1852	MAT-06946	1852	MAT-06959	1852	MAT-06972	1852	MAT-06985	1852	MAT-06998	1852	MAT-07011	1852
	1100 MM DIA.	Meter	MAT-06895	2177	MAT-06908	2177	MAT-06921	2177	MAT-06934	2177	MAT-06947	2177	MAT-06960	2177	MAT-06973	2177	MAT-06986	2177	MAT-06999	2177	MAT-07012	2177
	1200 MM DIA.	Meter	MAT-06896	2437	MAT-06909	2437	MAT-06922	2437	MAT-06935	2437	MAT-06948	2437	MAT-06961	2437	MAT-06974	2437	MAT-06987	2437	MAT-07000	2437	MAT-07013	2437
3	Conveyance of Bar Wrapped steel Cylindrical (BWSC) pipes and accessories including loading at Factory, unloading at site and stacking for the following sizes: (Minimum distance of 100 Kms to be considered, if the distance is less by 100 Kms from Factory to Site)																					
	250 MM DIA.	Per KM/ M	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	
	300 MM DIA.	Per KM/ M	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	
	350 MM DIA.	Per KM/ M	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	
	400 MM DIA.	Per KM/ M	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	
	450 MM DIA.	Per KM/ M	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	
	500 MM DIA.	Per KM/ M	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	

											Public Health Items	
600 MM DIA.	Per KM/M	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70
700 MM DIA.	Per KM/M	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
800 MM DIA.	Per KM/M	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98
900 MM DIA.	Per KM/M	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29
1000 MM DIA.	Per KM/M	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93
1100 MM DIA.	Per KM/M	10.99	10.99	10.99	10.99	10.99	10.99	10.99	10.99	10.99	10.99	10.99
1200 MM DIA.	Per KM/M	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37

Note:

The above rates of BWSC pipes are based on the following raw materials' cost.

HR Plates - Rs.77500/- per MT (excluding all taxes and freight),

M.S. Wire rods - Rs.66000/- per MT(excluding all taxes and freight)

Cement Cost Rs. 3680/- per MT (excluding all taxes and freight)

The rates may be revised depending upon the increase/ decrease in the cost of raw materials (landed price) as per the following method.

Revised Cost =Cost as per the above table +R1+R2+R3.

R1= Variation (increase / decrease) in cost (Rs. per metre)due to change in the cost of HR Plate =(H2-H1)/1000 X Wh.

R2= Variation (increase / decrease) in cost (Rs. per metre)due to change in the cost of wire rods =(W2-W1)/1000 X Ww.

R3= Variation (increase / decrease) in cost (Rs. per metre)due to change in the cost of Cement =(C2-C1)/1000 X Wc .

H1 = Rs. 77500/- H2 = Cost of HR Plate (Rs. Per MT excluding all taxes and freight) at the time of preparation of estimate.

W1 = Rs. 65000/- W2 = Cost of Wire rods (Rs. Per MT excluding all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 3680/- C2 = Cost of Cement (Rs. Per MT excluding all taxes and freight) at the time of preparation of estimate

Wh=Weight of HR Plate required (Kg.) per metre of pipe. Wc= Weight of Cement required (Kg.) per metre of pipe.

Ww = Weight of wire rods required (kg) per metre of pipe.

Note: Taxes as applicable shall be added as per rules at the time of preparation of estimate.

14. S o R FOR M.S. PIPES FOR THE YEAR 2022-23

Sl.No.	Description	Unit	Thicknes s in mm	Code	Rate
1	Manufacture, supply and delivery of M.S Spirally Welded Pipes conforming to IS: 3589/2001 including in lining with cement mortar (1:2) 15mm thick using 4 numbers of 6mm dia. M.S. Rings at each end of the pipe and out coating with cement mortar (1:3) 30mm thick by short crating or guniting duly providing wire mesh of size 50x50x3mm including cost of all materials, labor charges, transportation to anywhere in AP, but excluding all taxes.				
	500 mm dia.	Meter	8.00	MAT-07014	10430
	600 mm dia.	Meter	8.00	MAT-07015	12377
	700 mm dia.	Meter	8.00	MAT-07016	14402
	700 mm dia.	Meter	10.00	MAT-07017	17323
	800 mm dia.	Meter	8.00	MAT-07018	16308
	800 mm dia.	Meter	10.00	MAT-07019	19098
	800 mm dia.	Meter	12.00	MAT-07020	21887
	900 mm dia.	Meter	8.00	MAT-07021	17678
	900 mm dia.	Meter	10.00	MAT-07022	20873
	900 mm dia.	Meter	12.00	MAT-07023	23967
	1000 mm dia.	Meter	8.00	MAT-07024	19098
	1000 mm dia.	Meter	10.00	MAT-07025	22547
	1000 mm dia.	Meter	12.00	MAT-07026	26047
	1000 mm dia.	Meter	14.00	MAT-07027	29546
	1100 mm dia.	Meter	8.00	MAT-07028	20518
	1100 mm dia.	Meter	10.00	MAT-07029	24322
	1100 mm dia.	Meter	12.00	MAT-07030	28176
	1100 mm dia.	Meter	14.00	MAT-07031	32031
	1100 mm dia.	Meter	16.00	MAT-07032	35885
	1200 mm dia.	Meter	8.00	MAT-07033	21837
	1200 mm dia.	Meter	10.00	MAT-07034	26047

	1200 mm dia.	Meter	12.00	MAT-07035	30256
	1200 mm dia.	Meter	14.00	MAT-07036	34465
	1200 mm dia.	Meter	16.00	MAT-07037	38725
	1200 mm dia.	Meter	18.00	MAT-07038	42884
	1300 mm dia.	Meter	8.00	MAT-07039	23257
	1300 mm dia.	Meter	10.00	MAT-07040	27821
	1300 mm dia.	Meter	12.00	MAT-07041	32386
	1300 mm dia.	Meter	14.00	MAT-07042	36950
	1300 MM DIA.	Meter	16.00	MAT-07043	41464
	1300 MM DIA.	Meter	18.00	MAT-07044	46079
	1300 MM DIA.	Meter	20.00	MAT-07045	50643
	1400 MM DIA.	Meter	8.00	MAT-07046	24677
	1400 MM DIA.	Meter	10.00	MAT-07047	29546
	1400 MM DIA.	Meter	12.00	MAT-07048	34465
	1400 MM DIA.	Meter	14.00	MAT-07049	39435
	1400 MM DIA.	Meter	16.00	MAT-07050	44304
	1400 MM DIA.	Meter	18.00	MAT-07051	49223
	1400 MM DIA.	Meter	20.00	MAT-07052	54192
	1400 MM DIA.	Meter	22.00	MAT-07053	59112
	1500 MM DIA.	Meter	8.00	MAT-07054	26047
	1500 MM DIA.	Meter	10.00	MAT-07055	31321
	1500 MM DIA.	Meter	12.00	MAT-07056	36595
	1500 MM DIA.	Meter	14.00	MAT-07057	41819
	1500 MM DIA.	Meter	16.00	MAT-07058	47143
	1500 MM DIA.	Meter	18.00	MAT-07059	52418
	1500 MM DIA.	Meter	20.00	MAT-07060	57692
	1500 MM DIA.	Meter	22.00	MAT-07061	62966
	1500 MM DIA.	Meter	24.00	MAT-07062	68290
	1600 MM DIA.	Meter	8.00	MAT-07063	27467
	1600 MM DIA.	Meter	10.00	MAT-07064	33046
	1600 MM DIA.	Meter	12.00	MAT-07065	38725
	1600 MM DIA.	Meter	14.00	MAT-07066	44304

	1600 MM DIA.	Meter	16.00	MAT-07067	49933
	1600 MM DIA.	Meter	18.00	MAT-07068	55562
	1600 MM DIA.	Meter	20.00	MAT-07069	61241
	1600 MM DIA.	Meter	22.00	MAT-07070	66870
	1600 MM DIA.	Meter	24.00	MAT-07071	72500
	1600 MM DIA.	Meter	26.00	MAT-07072	78129
	1700 MM DIA.	Meter	8.00	MAT-07073	28886
	1700 MM DIA.	Meter	10.00	MAT-07074	34820
	1700 MM DIA.	Meter	12.00	MAT-07075	40804
	1700 MM DIA.	Meter	14.00	MAT-07076	46789
	1700 MM DIA.	Meter	16.00	MAT-07077	52773
	1700 MM DIA.	Meter	18.00	MAT-07078	58757
	1700 MM DIA.	Meter	20.00	MAT-07079	64741
	1700 MM DIA.	Meter	22.00	MAT-07080	70725
	1700 MM DIA.	Meter	24.00	MAT-07081	76709
	1700 MM DIA.	Meter	26.00	MAT-07082	82693
	1700 MM DIA.	Meter	28.00	MAT-07083	88727
	1800 MM DIA.	Meter	8.00	MAT-07084	30256
	1800 MM DIA.	Meter	10.00	MAT-07085	36595
	1800 MM DIA.	Meter	12.00	MAT-07086	42884
	1800 MM DIA.	Meter	14.00	MAT-07087	49223
	1800 MM DIA.	Meter	16.00	MAT-07088	55562
	1800 MM DIA.	Meter	18.00	MAT-07089	61901
	1800 MM DIA.	Meter	20.00	MAT-07090	68290
	1800 MM DIA.	Meter	22.00	MAT-07091	74629
	1800 MM DIA.	Meter	24.00	MAT-07092	80968
	1800 MM DIA.	Meter	26.00	MAT-07093	87307
	1800 MM DIA.	Meter	28.00	MAT-07094	93646
	1800 MM DIA.	Meter	30.00	MAT-07095	99985
	1900 MM DIA.	Meter	8.00	MAT-07096	31676
	1900 MM DIA.	Meter	10.00	MAT-07097	38370
	1900 MM DIA.	Meter	12.00	MAT-07098	45014
	1900 MM DIA.	Meter	14.00	MAT-07099	51708

	1900 MM DIA.	Meter	16.00	MAT-07100	58402
	1900 MM DIA.	Meter	18.00	MAT-07101	65096
	1900 MM DIA.	Meter	20.00	MAT-07102	71790
	1900 MM DIA.	Meter	22.00	MAT-07103	78484
	1900 MM DIA.	Meter	24.00	MAT-07104	85178
	1900 MM DIA.	Meter	26.00	MAT-07105	91872
	1900 MM DIA.	Meter	28.00	MAT-07106	98566
	1900 MM DIA.	Meter	30.00	MAT-07107	105259
	1900 MM DIA.	Meter	32.00	MAT-07108	111953
	2000 MM DIA.	Meter	8.00	MAT-07109	33046
	2000 MM DIA.	Meter	10.00	MAT-07110	40145
	2000 MM DIA.	Meter	12.00	MAT-07111	47143
	2000 MM DIA.	Meter	14.00	MAT-07112	54192
	2000 MM DIA.	Meter	16.00	MAT-07113	61241
	2000 MM DIA.	Meter	18.00	MAT-07114	68290
	2000 MM DIA.	Meter	20.00	MAT-07115	75339
	2000 MM DIA.	Meter	22.00	MAT-07116	82388
	2000 MM DIA.	Meter	24.00	MAT-07117	89437
	2000 MM DIA.	Meter	26.00	MAT-07118	96486
	2000 MM DIA.	Meter	28.00	MAT-07119	103535
	2000 MM DIA.	Meter	30.00	MAT-07120	110584
	2000 MM DIA.	Meter	32.00	MAT-07121	117633
	2000 MM DIA.	Meter	34.00	MAT-07122	124682
	2100 MM DIA.	Meter	8.00	MAT-07123	34465
	2100 MM DIA.	Meter	10.00	MAT-07124	41819
	2100 MM DIA.	Meter	12.00	MAT-07125	49223
	2100 MM DIA.	Meter	14.00	MAT-07126	56627
	2100 MM DIA.	Meter	16.00	MAT-07127	64031
	2100 MM DIA.	Meter	18.00	MAT-07128	71435
	2100 MM DIA.	Meter	20.00	MAT-07129	78839
	2100 MM DIA.	Meter	22.00	MAT-07130	86242
	2100 MM DIA.	Meter	24.00	MAT-07131	93646
	2100 MM DIA.	Meter	26.00	MAT-07132	101050
	2100 MM DIA.	Meter	28.00	MAT-07133	108454

	2100 MM DIA.	Meter	30.00	MAT-07134	115858
	2100 MM DIA.	Meter	32.00	MAT-07135	123312
	2100 MM DIA.	Meter	34.00	MAT-07136	130716
	2100 MM DIA.	Meter	36.00	MAT-07137	138169
	2200 MM DIA.	Meter	8.00	MAT-07138	35885
	2200 MM DIA.	Meter	10.00	MAT-07139	43594
	2200 MM DIA.	Meter	12.00	MAT-07140	51353
	2200 MM DIA.	Meter	14.00	MAT-07141	59112
	2200 MM DIA.	Meter	16.00	MAT-07142	66870
	2200 MM DIA.	Meter	18.00	MAT-07143	74629
	2200 MM DIA.	Meter	20.00	MAT-07144	82388
	2200 MM DIA.	Meter	22.00	MAT-07145	90097
	2200 MM DIA.	Meter	26.00	MAT-07146	105614
	2200 MM DIA.	Meter	28.00	MAT-07147	113373
	2200 MM DIA.	Meter	30.00	MAT-07148	121182
	2200 MM DIA.	Meter	32.00	MAT-07149	128941
	2200 MM DIA.	Meter	34.00	MAT-07150	136750
	2200 MM DIA.	Meter	36.00	MAT-07151	144558
	2200 MM DIA.	Meter	38.00	MAT-07152	152317
	2300 MM DIA.	Meter	10.00	MAT-07153	45369
	2300 MM DIA.	Meter	12.00	MAT-07154	53482
	2300 MM DIA.	Meter	16.00	MAT-07155	69660
	2300 MM DIA.	Meter	18.00	MAT-07156	77774
	2300 MM DIA.	Meter	20.00	MAT-07157	85887
	2300 MM DIA.	Meter	22.00	MAT-07158	94001
	2300 MM DIA.	Meter	26.00	MAT-07159	110229
	2300 MM DIA.	Meter	28.00	MAT-07160	118342
	2300 MM DIA.	Meter	30.00	MAT-07161	126456
	2300 MM DIA.	Meter	32.00	MAT-07162	134620
	2300 MM DIA.	Meter	34.00	MAT-07163	142784
	2300 MM DIA.	Meter	36.00	MAT-07164	150897
	2300 MM DIA.	Meter	38.00	MAT-07165	159061
	2300 MM DIA.	Meter	40.00	MAT-07166	167225

	2400MM DIA.	Meter	10.00	MAT-07167	47143
	2400 MM DIA.	Meter	12.00	MAT-07168	55562
	2400 MM DIA.	Meter	14.00	MAT-07169	64031
	2400 MM DIA.	Meter	16.00	MAT-07170	72500
	2400 MM DIA.	Meter	18.00	MAT-07171	80968
	2400 MM DIA.	Meter	20.00	MAT-07172	89437
	2400 MM DIA.	Meter	22.00	MAT-07173	97856
	2400 MM DIA.	Meter	26.00	MAT-07174	114793
	2400 MM DIA.	Meter	28.00	MAT-07175	123312
	2400 MM DIA.	Meter	30.00	MAT-07176	131780
	2400 MM DIA.	Meter	32.00	MAT-07177	140299
	2400 MM DIA.	Meter	34.00	MAT-07178	148768
	2400 MM DIA.	Meter	36.00	MAT-07179	157286
	2400 MM DIA.	Meter	38.00	MAT-07180	165805
	2400 MM DIA.	Meter	40.00	MAT-07181	174324
	2400 MM DIA.	Meter	42.00	MAT-07182	182843
	2500 MM DIA.	Meter	10.00	MAT-07183	48868
	2500 MM DIA.	Meter	14.00	MAT-07184	66515
	2500 MM DIA.	Meter	16.00	MAT-07185	75339
	2500 MM DIA.	Meter	18.00	MAT-07186	84113
	2500 MM DIA.	Meter	20.00	MAT-07187	92936
	2500 MM DIA.	Meter	22.00	MAT-07188	101760
	2500 MM DIA.	Meter	28.00	MAT-07189	128231
	2500 MM DIA.	Meter	30.00	MAT-07190	137105
	2500 MM DIA.	Meter	34.00	MAT-07191	154802
	2500 MM DIA.	Meter	36.00	MAT-07192	163676
	2500 MM DIA.	Meter	38.00	MAT-07193	172549
	2500 MM DIA.	Meter	40.00	MAT-07194	181423
	2500 MM DIA.	Meter	42.00	MAT-07195	190296
	2500 MM DIA.	Meter	44.00	MAT-07196	199170
	2500 MM DIA.	Meter	46.00	MAT-07197	208044
	2600 MM DIA.	Meter	12.00	MAT-07198	59822
	2600 MM DIA.	Meter	14.00	MAT-07199	69000
	2600 MM DIA.	Meter	16.00	MAT-07200	78129

	2600 MM DIA.	Meter	18.00	MAT-07201	87307
	2600 MM DIA.	Meter	20.00	MAT-07202	96486
	2600 MM DIA.	Meter	22.00	MAT-07203	105614
	2600 MM DIA.	Meter	32.00	MAT-07204	151607
	2600 MM DIA.	Meter	34.00	MAT-07205	160836
	2600 MM DIA.	Meter	36.00	MAT-07206	170065
	2600 MM DIA.	Meter	38.00	MAT-07207	179293
	2600 MM DIA.	Meter	40.00	MAT-07208	188522
	2600 MM DIA.	Meter	42.00	MAT-07209	197750
	2600 MM DIA.	Meter	44.00	MAT-07210	206979
	2600 MM DIA.	Meter	46.00	MAT-07211	216207
	2600 MM DIA.	Meter	48.00	MAT-07212	225386
2	Cost of Laying, Jointing, Hydrostatic Filed Test Pressure, Including Cost of Site Welding, Jointing Materials And Cost of Transportation of Water Including Emptying Pipe Line After Completion Of Field Testing				
	400 MM DIA.	Meter		MAT-07213	824
	500 MM DIA.	Meter		MAT-07214	1025
	600 MM DIA.	Meter		MAT-07215	1261
	700 MM DIA.	Meter		MAT-07216	1463
	800 MM DIA.	Meter		MAT-07217	1670
	900 MM DIA.	Meter		MAT-07218	1963
	1000 MM DIA.	Meter		MAT-07219	2167
	1100 MM DIA.	Meter		MAT-07220	2550
	1200 MM DIA.	Meter		MAT-07221	2857
	1300 MM DIA.	Meter		MAT-07222	3283
	1400 MM DIA.	Meter		MAT-07223	3779
	1500 MM DIA.	Meter		MAT-07224	4275
	1600 MM DIA.	Meter		MAT-07225	4505
	1700 MM DIA.	Meter		MAT-07226	4765
	1800 MM DIA.	Meter		MAT-07227	5389
	1900 MM DIA.	Meter		MAT-07228	6280
	2000 MM DIA.	Meter		MAT-07229	7886
	2100 MM DIA.	Meter		MAT-07230	9022
	2200 MM DIA.	Meter		MAT-07231	10135
	2300 MM DIA.	Meter		MAT-07232	12364
	2400 MM DIA.	Meter		MAT-07233	15119

	2500 MM DIA.	Meter		MAT-07234	17559
	2600 MM DIA.	Meter		MAT-07235	19767

The above rates of MS Spiral pipes are based on the following raw materials cost.

MS Plates = Rs.72,000/- Per MT.(Excluding all taxes and freight).

The rates may be revised depending upon the increase/decrease in the cost of raw materials (landed price) as per the following method.

Revised Cost = Cost of the pipe as per the above table +R₁. R₁= Variation (Increase/Decrease) in cost (Rs. Per metre) due to change in cost of MS Plates= (M₂-M₁)/1000 x W_m

M₁= Rs 72,000/-

M₂= Cost of MS Plates at the time of preparation of estimate excluding all taxes and freight

W_m=Weight of MS Plates in Kg's per meter of pipe

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

15. S.S. RATES FOR H.D.P.E PIPES FOR THE YEAR 2022-23. (PE - 80 Grade)

Sl.No	Description	4.0 kg/sqcm	
1	Manufacture, Supply, & Delivery of HDPE pipes conforming to IS 4984 - 2016 including transportation to anywhere in A.P, excluding all taxes (Supply up to 90 mm dia. in coil & above 90 mm dia. straight Length)		
		Code	Rate per Meter
	OD 40 mm	MAT-07236	42
	OD 50 mm	MAT-07237	64
	OD 63 mm	MAT-07238	87
	OD 75 mm	MAT-07239	120
	OD 90 mm	MAT-07240	172
	OD 110 mm	MAT-07241	256
	OD 125 mm	MAT-07242	327
	OD 140 mm	MAT-07243	408
	OD 160 mm	MAT-07244	534
	OD 180 mm	MAT-07245	676
	OD 200 mm	MAT-07246	826
	OD 225 mm	MAT-07247	1047
	OD 250 mm	MAT-07248	1298
	OD 280 mm	MAT-07249	1617
	OD 315 mm	MAT-07250	2053
	OD 355 mm	MAT-07251	2667
	OD 400 mm	MAT-07252	3430
	OD 450 mm	MAT-07253	4391
	OD 500 mm	MAT-07254	5391
	OD 560 mm	MAT-07255	6685
	OD 630 mm	MAT-07256	8456
	OD 710 mm	MAT-07257	10745
	OD 800 mm	MAT-07258	13600
	OD 900 mm	MAT-07259	17232
	OD 1000 mm	MAT-07260	21222

Note: - Reliance Industries Resin cost adopted for the above rates are

For PE - 80 grade Rs.130570/- per MT. (Excluding all taxes).

The variation in cost of HDPE pipes due to increase / decrease in raw material cost shall be allowed as per the following price variation formula.

$$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95 \text{ (for increase in raw material cost)}$$

$$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95 \text{ (for decrease in raw material cost)}$$

P2 = Revised pipe price in Rs. per Meter (Excluding all taxes).

P1 = Existing pipe price in Rs. per Meter (Excluding all taxes).

A2 = Revised price of raw material Rs. per MT excluding all taxes.

A1 = Existing price of raw material Rs. Per MT excluding all taxes

M = Weight of pipe in Kg's per Meter as per weight chart.

The above formula for calculation of revised cost to be used for preparation of Estimates only.

16. S o R FOR H.D.P.E PIPES FOR THE YEAR 2022-23. (PE - 100 Grades)

Sl.No.	Description	6.0 kg/sqcm		8.0 kg/sqcm		10.0 kg/sqcm		12.5 kg/sqcm		16.0 kg/sqcm	
		Code	Rate per Meter	Code	Rate per Meter	Code	Rate per Meter	Code	Rate per Meter	Code	Rate per Meter
1	Manufacture, Supply, & Delivery of HDPE Pipes conforming to IS 4984 - 2016 including transportation to anywhere in A.P, excluding all taxes (Supply up to 90 mm dia. in coil & above 90 mm dia. straight length.)										
	OD 20 mm									MAT-07355	26
	OD 25 mm									MAT-07356	39
	OD 32 mm					MAT-07309	45	MAT-07333	53	MAT-07357	64
	OD 40 mm			MAT-07285	57	MAT-07310	70	MAT-07334	85	MAT-07358	120
	OD 50 mm	MAT-07261	72	MAT-07286	89	MAT-07311	108	MAT-07335	131	MAT-07359	156
	OD 63 mm	MAT-07262	116	MAT-07287	142	MAT-07312	177	MAT-07336	213	MAT-07360	250
	OD 75 mm	MAT-07263	167	MAT-07288	205	MAT-07313	250	MAT-07337	301	MAT-07361	356
	OD 90 mm	MAT-07264	237	MAT-07289	288	MAT-07314	358	MAT-07338	428	MAT-07362	510
	OD 110 mm	MAT-07265	359	MAT-07290	433	MAT-07315	528	MAT-07339	639	MAT-07363	765
	OD 125 mm	MAT-07266	459	MAT-07291	556	MAT-07316	681	MAT-07340	828	MAT-07364	984
	OD 140 mm	MAT-07267	574	MAT-07292	699	MAT-07317	853	MAT-07341	1040	MAT-07365	1237
	OD 160 mm	MAT-07268	753	MAT-07293	917	MAT-07318	1118	MAT-07342	1355	MAT-07366	1612
	OD 180 mm	MAT-07269	947	MAT-07294	1151	MAT-07319	1415	MAT-07343	1709	MAT-07367	2037
	OD 200 mm	MAT-07270	1173	MAT-07295	1421	MAT-07320	1741	MAT-07344	2108	MAT-07368	2520
	OD 225 mm	MAT-07271	1482	MAT-07296	1798	MAT-07321	2210	MAT-07345	2674	MAT-07369	3181
	OD 250 mm	MAT-07272	1828	MAT-07297	2212	MAT-07322	2717	MAT-07346	3302	MAT-07370	3930
	OD 280 mm	MAT-07273	2282	MAT-07298	2781	MAT-07323	3412	MAT-07347	4137	MAT-07371	4935
	OD 315 mm	MAT-07274	2877	MAT-07299	3524	MAT-07324	4316	MAT-07348	5235	MAT-07372	6232
	OD 355 mm	MAT-07275	3505	MAT-07300	4425	MAT-07325	5343	MAT-07349	6460	MAT-07373	7974
	OD 400 mm	MAT-07276	4585	MAT-07301	5783	MAT-07326	6972	MAT-07350	9035	MAT-07374	10294
	OD 450 mm	MAT-07277	5716	MAT-07302	7221	MAT-07327	8721	MAT-07351	11424	MAT-07375	13006
	OD 500 mm	MAT-07278	7061	MAT-07303	8909	MAT-07328	10761	MAT-07352	14115	MAT-07376	16137
	OD 560 mm	MAT-07279	8280	MAT-07304	10442	MAT-07329	12552	MAT-07353	16009		
	OD 630 mm	MAT-07280	10440	MAT-07305	13209	MAT-07330	15900	MAT-07354	19117		
	OD 710 mm	MAT-07281	13296	MAT-07306	16752	MAT-07331	20196				
	OD 800 mm	MAT-07282	16862	MAT-07307	21271	MAT-07332	25721				

	OD 900 mm	MAT-07283	21360	MAT-07308	26926						
	OD 1000 mm	MAT-07284	26355								

Note: Reliance Industries Resin cost adopted for the above rates are

For PE - 100 grade Rs.131880/-per MT. (Excluding all taxes).

The variation in cost of HDPE pipes due to increase / decrease in raw material cost shall be allowed as per the following price variation formula.

$$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95 \text{ (for increase in raw material cost)}$$

$$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95 \text{ (for decrease in raw material cost)}$$

P2 = Revised pipe price in Rs. per Meter (Excluding all taxes).

P1 = Existing pipe price in Rs. per Meter (Excluding all taxes).

A2 = Revised price of raw material Rs. per MT excluding all taxes

A1 = Existing price of raw material Rs. per MT excluding all taxes

M = Weight of pipe in Kg's per Meter as per weight chart.

The above formula for calculation of revised cost to be used for preparation of Estimates only.

17.HDPE PIPES – (PE –100 Grade) SEWER LINES FOR THE YEAR 2022-23

Sl.No	Description	6.0 kg/ sqcm	8.0 kg/ sqcm	10.0 kg/ sqcm	12.5 kg/ sqcm	16.0 kg/ sqcm					
1	Manufacture, Supply, & Delivery of HDPE Pipes are conforming to IS 14333 - 2000 for using underground drainage and sewerage systems including transportation to anywhere in A.P, excluding all taxes (Supply up to 90 mm drain coil & above 90 mm dia. straight length)										
		Code	Rate per Meter	Code	Rate per Meter	Code	Rate per Meter	Code	Rate per Meter	Code	Rate per Meter
	OD 63mm	MAT-07377	124	MAT-07400	156	MAT-07420	188	MAT-07439	223	MAT-07456	268
	OD 75 mm	MAT-07378	176	MAT-07401	225	MAT-07421	268	MAT-07440	319	MAT-07457	380
	OD 90 mm	MAT-07379	249	MAT-07402	320	MAT-07422	380	MAT-07441	452	MAT-07458	548
	OD 110 mm	MAT-07380	362	MAT-07403	458	MAT-07423	547	MAT-07442	656	MAT-07459	784
	OD 125 mm	MAT-07381	463	MAT-07404	592	MAT-07424	708	MAT-07443	839	MAT-07460	1013
	OD 140 mm	MAT-07382	580	MAT-07405	737	MAT-07425	888	MAT-07444	1057	MAT-07461	1272
	OD 160 mm	MAT-07383	754	MAT-07406	962	MAT-07426	1158	MAT-07445	1330	MAT-07462	1655
	OD 180 mm	MAT-07384	951	MAT-07407	1221	MAT-07427	1464	MAT-07446	1739	MAT-07463	2094
	OD 200 mm	MAT-07385	1178	MAT-07408	1506	MAT-07428	1805	MAT-07447	2155	MAT-07464	2580
	OD 225 mm	MAT-07386	1486	MAT-07409	1898	MAT-07429	2283	MAT-07448	2716	MAT-07465	3270
	OD 250 mm	MAT-07387	1834	MAT-07410	2348	MAT-07430	2817	MAT-07449	3353	MAT-07466	4028
	OD 280 mm	MAT-07388	2292	MAT-07411	2937	MAT-07431	3513	MAT-07450	4216	MAT-07467	5059
	OD 315 mm	MAT-07389	2902	MAT-07412	3719	MAT-07432	4559	MAT-07451	5319	MAT-07468	6396
	OD 355 mm	MAT-07390	3677	MAT-07413	4710	MAT-07433	5667	MAT-07452	6763	MAT-07469	8114
	OD 400 mm	MAT-07391	4848	MAT-07414	6205	MAT-07434	7449	MAT-07453	8882	MAT-07470	10651
	OD 450 mm	MAT-07392	6119	MAT-07415	7849	MAT-07435	9434	MAT-07454	11222		
	OD 500 mm	MAT-07393	7564	MAT-07416	9677	MAT-07436	11635	MAT-07455	13869		
	OD 560 mm	MAT-07394	9458	MAT-07417	12127	MAT-07437	14598				
	OD 630 mm	MAT-07395	11975	MAT-07418	15350	MAT-07438	18442				
	OD 710 mm	MAT-07396	15473	MAT-07419	19823						
	OD 800 mm	MAT-07397	19632								
	OD 900 mm	MAT-07398	24865								
	OD 1000 mm	MAT-07399	30721								

Note: Reliance Industries Resin cost adopted for the above rates are

For PE - 100 grade Rs.131880/-per MT. (Excluding all taxes).

The variation in cost of HDPE pipes due to increase / decrease in raw material cost shall be allowed as per the following price variation formula.

$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95$ (for increase in raw material cost)

$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95$ (for decrease in raw material cost)

P2 = Revised pipe price in Rs. per Meter excluding all taxes

P1 = Existing pipe price in Rs. per Meter excluding all taxes

A2 = Revised price of raw material Rs. per MT excluding all taxes

A1 = Existing price of raw material Rs. per MT excluding all taxes

M = Weight of pipe in Kgs per Meter as per weight chart.

The above formula for calculation of revised cost to be used for preparation of Estimates only.

18. S o R FOR H.D.P.E- (PE –100 Grade) FITTINGS FOR THE YEAR 2022-23.

I	Manufacture, Supply, & Delivery of HDPE (PE –100 Grade) fittings conforming to IS 4984 - 2016 including transportation to anywhere in A.P. Excluding all taxes.		
I (a)	PIPE ENDS LONG NECK	Code	Rate per Each
	OD 50 mm	MAT-07471	92
	OD 63 mm	MAT-07472	117
	OD 75 mm	MAT-07473	140
	OD 90 mm	MAT-07474	196
	OD 110 mm	MAT-07475	271
	OD 125 mm	MAT-07476	487
	OD 140 mm	MAT-07477	456
	OD 160 mm	MAT-07478	638
	OD 180 mm	MAT-07479	971
	OD 200 mm	MAT-07480	1249
	OD 225 mm	MAT-07481	1434
	OD 250 mm	MAT-07482	1680
	OD 280 mm	MAT-07483	1878
	OD 315 mm	MAT-07484	2164
	OD 355 mm	MAT-07485	4524
	OD 400 mm	MAT-07486	6028
	OD 450 mm	MAT-07487	10029
	OD 500 mm	MAT-07488	11162
(b)	MS FLANGES	Code	Rate per Each
	OD 50 mm	MAT-07489	113
	OD 63 mm	MAT-07490	141
	OD 75 mm	MAT-07491	182
	OD 90 mm	MAT-07492	196
	OD 110 mm	MAT-07493	206
	OD 125 mm	MAT-07494	283
	OD 140 mm	MAT-07495	307
	OD 160 mm	MAT-07496	402
	OD 180 mm	MAT-07497	568
	OD 200 mm	MAT-07498	734
	OD 225 mm	MAT-07499	920
	OD 250 mm	MAT-07500	1087
	OD 280 mm	MAT-07501	1231
	OD 315 mm	MAT-07502	1450
	OD 355 mm	MAT-07503	2455
	OD 400 mm	MAT-07504	3044
	OD 450 mm	MAT-07505	3974
	OD 500 mm	MAT-07506	4550
(c)	END CAPS	Code	Rate per Each

	OD 50 mm	MAT-07507	68
	OD 63 mm	MAT-07508	80
	OD 75 mm	MAT-07509	101
	OD 90 mm	MAT-07510	134
	OD 110 mm	MAT-07511	153
	OD 125 mm	MAT-07512	213
	OD 140 mm	MAT-07513	249
	OD 160 mm	MAT-07514	380
	OD 180 mm	MAT-07515	617
	OD 200 mm	MAT-07516	674
	OD 225 mm	MAT-07517	702
	OD 250 mm	MAT-07518	999
	OD 280 mm	MAT-07519	1023
	OD 315 mm	MAT-07520	1396
	OD 355 mm	MAT-07521	2157
	OD 400 mm	MAT-07522	3766
	OD 450 mm	MAT-07523	6056
	OD 500 mm	MAT-07524	11162
(d)	REDUCERS	Code	Rate per Each
	OD 50 mm x 63 mm	MAT-07525	92
	OD 63 mm x 75 mm	MAT-07526	134
	OD 75 mm x 90 mm	MAT-07527	222
	OD 90 mm x 110 mm	MAT-07528	305
	OD 110 mm x 125 mm	MAT-07529	465
	OD 125 mm x 140 mm	MAT-07530	644
	OD 140 mm x 160 mm	MAT-07531	899
	OD 160 mm x 180 mm	MAT-07532	1243
	OD 180 mm x 200 mm	MAT-07533	1606
	OD 200 mm x 225 mm	MAT-07534	1972
	OD 225 mm x 250 mm	MAT-07535	2688
	OD 250 mm x 280 mm	MAT-07536	3817
	OD 280 mm x 315 mm	MAT-07537	5398
	OD 315 mm x 355 mm	MAT-07538	6192
	OD 355 mm x 400 mm	MAT-07539	8735
	OD 400 mm x 450 mm	MAT-07540	9062
	OD 450 mm x 500 mm	MAT-07541	11618

(e)	TEES	Code	Rate per Each
	OD 50 mm	MAT-07542	129
	OD 63 mm	MAT-07543	205
	OD 75 mm	MAT-07544	249
	OD 90 mm	MAT-07545	436

	OD 110 mm	MAT-07546	516
	OD 125 mm	MAT-07547	777
	OD 140 mm	MAT-07548	1072
	OD 160 mm	MAT-07549	1846
	OD 180 mm	MAT-07550	2503
	OD 200 mm	MAT-07551	3447
	OD 225 mm	MAT-07552	4894
	OD 250 mm	MAT-07553	6701
	OD 280 mm	MAT-07554	9384
	OD 315 mm	MAT-07555	13371
	OD 355 mm	MAT-07556	19069
	OD 400 mm	MAT-07557	27929
	OD 450 mm	MAT-07558	39672
	OD 500 mm	MAT-07559	54484
(f)	BENDS	Code	Rate per Each
	OD 50 mm	MAT-07560	80
	OD 63 mm	MAT-07561	181
	OD 75 mm	MAT-07562	235
	OD 90 mm	MAT-07563	400
	OD 110 mm	MAT-07564	529
	OD 125 mm	MAT-07565	782
	OD 140 mm	MAT-07566	1029
	OD 160 mm	MAT-07567	1535
	OD 180 mm	MAT-07568	2204
	OD 200 mm	MAT-07569	2984
	OD 225 mm	MAT-07570	4236
	OD 250 mm	MAT-07571	5805
	OD 280 mm	MAT-07572	8369
	OD 315 mm	MAT-07573	11575
	OD 355 mm	MAT-07574	16045
	OD 400 mm	MAT-07575	24204
	OD 450 mm	MAT-07576	35582
	OD 500 mm	MAT-07577	48239

II	Providing and Fixing electro Fusion Ferrule Tapping saddle manufactured from virgin resin of PE-80/PE-100 having blue/black color using food grade compounded raw material with quality assurance certificate from quality agencies like CIPET etc. For usage in drinking water system and having working pressure of 10 bar. The cost shall include testing of all materials, labor, inspection charges, transportation up to site, transit insurance, loading, unloading, stacking, providing and fixing etc. Complete as specified and directed by the Departmental Engineers, but excluding of all taxes.		
	SIZE	Code	Rate Each
	(Main pipe outer diameter in mm & Tapping size in Inches)		
	63x1/2"	MAT-07578	253
	63 x3/4"	MAT-07579	294
	63 x1"	MAT-07580	338
	75 x1/2"	MAT-07582	266
	75 x3/4"	MAT-07583	306
	75 x1	MAT-07584	336
	90 x1/2"	MAT-07585	280
	90 x3/4"	MAT-07586	318
	90 x1"	MAT-07587	348
	90 x 1 1/4"	MAT-07588	348
	90 x 1 1/2"	MAT-07589	348
	90 x2"	MAT-07590	280
	110x1/2"	MAT-07591	318
	110 x3/4"	MAT-07592	348
	110 x1"	MAT-07593	348
	110 x 1 1/4"	MAT-07594	348
	110x1 1/2"	MAT-07595	348
	110x2"	MAT-07596	348
	160 x1/2"	MAT-07597	294
	160 x3/4"	MAT-07598	342
	160 x1"	MAT-07599	372
	160 x 1 1/4"	MAT-07600	372
	160 x 1 1/2"	MAT-07601	372
	160 x 2"	MAT-07602	372
	200 x 1/2"	MAT-07603	294
	200 x 3/4"	MAT-07604	355
	200 x 1"	MAT-07605	385
	200 x 1 1/4"	MAT-07606	385

	200 x 2"	MAT-07607	385
	250 x 1/2"	MAT-07608	372
	250 x 3/4"	MAT-07609	408
	250 x 1"	MAT-07610	444
	250 x 1 1/4"	MAT-07611	444
	250 x 1 1/2"	MAT-07612	444
	250 x 2"	MAT-07613	444
	315 x 1/2"	MAT-07614	396
	315 x 3/4"	MAT-07615	432
	315x1"	MAT-07616	492
	315x1 1/4"	MAT-07617	492
	315x1 1/2"	MAT-07618	492
	315x2"	MAT-07619	492

19. S o R FOR Double Wall Corrugated (DWC) Pipes FOR THE YEAR 2022-23

Sl.No.	Description	Unit	Code	SoR RATES 2022-23
1	2	3	4	5
I	Manufacture, supply, & delivery of (DWC) structured wall polyethylene/polypropylene piping system with nonsmooth external annular corrugated and smooth internal surface (Double Wall) for nonpressure sewage & Drainage application pipes of standard length 6 m, grade conforming to IS 16098 (part-II: 2013) including transportation to anywhere in A.P, excluding all taxes.	Meter		
	Inner Dia. (mm)			
	Stiffness Class SN-8			
	100		MAT-07620	196
	135		MAT-07621	317
	150		MAT-07622	379
	170		MAT-07623	440
	200		MAT-07624	582
	250		MAT-07625	878
	300		MAT-07626	1182
	400		MAT-07627	2186
	500		MAT-07628	3120
	600		MAT-07629	5366
	800		MAT-07630	9114
	1000		MAT-07631	15148

Sl.No.	Description	Unit	Code	SoR RATES 2022-23
1	2	3	4	5
II	Laying of SN8 structured wall (External Annular Corrugated & Smooth Internal surface) Polythelene pipes, on the lower bedding (Constructed at bottom of trenches) at prescribed gradient, depth & alignment including installation and jointing of the same with the help of coupler (on line/ off line) attached to one end of the pipe & sliding the coupler end over the elastomeric sealing rubber ring fitted on the specified valley of the spigot end of next pipe, testing the water tightness of the joint assembly, ensuring the continuity tests of specified pipe segments etc. complete as per drawing, specifications & detail engineering, including carriage of pipes & fittings from site stacks to the place of laying etc. as per direction of Engineer-in-charge. (Payment to be made on the basis of actual finished length of pipe line).	Meter		
	Inner Dia. (mm)			
	Stiffness Class SN-8			
	100			36
	135			55
	150			66
	170			78
	200			108
	250			169
	300			224
	400			405
	500			590
	600			1018
	800			1687
	1000			2731

III	Manufacture, supply, & delivery of fittings & accessories compatible with DWC pipe - non smooth External Annular Corrugated and smooth Internal Surfaces (Double Wall) for non-pressure or similar type of class SN8 Structured Wall polythelene piping systems including transportation to anywhere in A.P, excluding GST and other Government duties.			
	Inner Dia. (mm)			

(a)	Coupler	Code	Rate per Each
	100		68
	135		114
	150		129
	170		157
	200		212
	250		902
	300		1313
	400		1952
	500		3823
	600		4950
	800		10492
	1000		13790
(b)	Sealing Ring	Code	Rate per Each
	100		21
	135		27
	150		32
	170		46
	200		83
	250		182
	300		466
	400		720
	500		1,097
	600		2,429
	800		5,847
	1000		8,244

20. SoR FOR PVC PIPES FOR THE YEAR 2022-23

Sl. No.	Description	TEST PRESSURE					
		4.0 Kgs/cm ²		6 Kgs/cm ²		10 Kgs/cm ²	
1	Manufacture, Supply and Delivery of Unplasticised PVCs Pipes for potable water supplies conforming to IS : 4985/2000 (3 rd revision) with bell ends (Socket) as per specification in light Grey/Natural Ivory Grey/ Any other Color (except White) inclusive of transportation to the sub-divisional stores anywhere in AP excluding all taxes.						
	DIA. IN MM	Code	Rate/Meter	Code	Rate/Meter	Code	Rate/Meter
	20					MAT-07664	23
	25					MAT-07665	35
	32					MAT-07666	53
	40			MAT-07647	50	MAT-07667	82
	50			MAT-07648	74	MAT-07668	126
	63	MAT-07632	82	MAT-07649	119	MAT-07669	177
	75	MAT-07633	117	MAT-07650	162	MAT-07670	256
	90	MAT-07634	163	MAT-07651	234	MAT-07671	363
	110	MAT-07635	236	MAT-07652	339	MAT-07672	544
	125	MAT-07636	309	MAT-07653	437	MAT-07673	706
	140	MAT-07637	385	MAT-07654	556	MAT-07674	877
	160	MAT-07638	505	MAT-07655	718	MAT-07675	1150
	180	MAT-07639	645	MAT-07656	923	MAT-07676	1466
	200	MAT-07640	782	MAT-07657	1130	MAT-07677	1793
	225	MAT-07641	1065	MAT-07658	1540	MAT-07678	2446
	250	MAT-07642	1232	MAT-07659	1851	MAT-07679	2932
	280	MAT-07643	1590	MAT-07660	2335	MAT-07680	3693
	315	MAT-07644	2019	MAT-07661	2965	MAT-07681	4676
	355	MAT-07645	2610	MAT-07662	3791		
	400	MAT-07646	3292	MAT-07663	4823		

Note:

The resin cost adopted for the above rates is Rs.137630/- per MT (excluding all taxes)

The variation in cost of PVC pipes due to increase / decrease in raw material cost shall be allowed subject to the following price variation formula.

The price variation formula to be adopted is as follows:

$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95$ (for increase in raw material cost)

$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95$ (for decrease in raw material cost)

P2 = Revised pipe price in Rs. Per Meter, P1 = Existing pipe price in Rs. Per Meter

A2 = Revised price of raw material Rs. Per MT,

A1 = Existing price of raw material Rs. Per MT

M = Weight of pipe in Kgs per Meter as per weight chart.

The above formula for calculation of revised cost to be used for preparation of Estimates only.

21. SoR FOR NON- PRESSURE P.V.C.U PIPES FOR THE YEAR 2022-23

S. No	Description		
1	Manufacture, Supply, & Delivery of Unplasticised Non-pressure polyvinyl chloride(PVC-U) pipes of dark (any shade of brown) for use in underground drainage & sewerage system conforming to IS 15328/2003) <u>with solvent cement jointing</u> as per specification inclusive of transportation to the sub-divisional stores anywhere in A.P, excluding all taxes		
	Pipe Series (S25)	Code	Rate per Meter
	OD 160 mm	MAT-07682	446
	OD 200 mm	MAT-07683	678
	OD 250mm	MAT-07684	1052
	OD 315 mm	MAT-07685	1660
	Pipe Series (S20)		
	OD 125 mm	MAT-07686	344
	OD 160 mm	MAT-07687	553
	OD 200 mm	MAT-07688	839
	OD 250mm	MAT-07689	1307
	OD 315 mm	MAT-07690	2051
	Pipe Series (S16.5)		
	OD 110 mm	MAT-07691	304
	OD 125 mm	MAT-07692	410
	OD 160 mm	MAT-07693	642
	OD 200 mm	MAT-07694	997
	OD 250mm	MAT-07695	1546
	OD 315 mm	MAT-07696	2440

Note: The resin cost adopted for the above rates is Rs.137630/- per MT (Excluding all taxes). The variation in cost of PVC pipes due to increase / decrease in raw material cost shall be allowed subject to the following price variation formula.

The price variation formula to be adopted is as follows:

$$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95 \text{ (for increase in raw material cost)}$$

$$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95 \text{ (for decrease in raw material cost)}$$

P2 = Revised pipe price in Rs. per Meter

P1 = Existing pipe price in Rs. per Meter

A2 = Revised price of raw material Rs. per MT

A1 = Existing price of raw material Rs. per MT

M = Weight of pipe in Kg's per Meter as per weight chart.

The above formula for calculation of revised cost to be used for preparation of Estimates only.

22. SoR FOR NON- PRESSURE P.V.C.U PIPES FOR THE YEAR 2022-23

S. No	Description		
1	Manufacture, supply, & delivery of un-plasticized Non-Pressure Polyvinyl Chloride(PVC-U) pipes of dark (any shade of Brown) for use in underground drainage & sewerage system conforming to IS 15328/2003) <u>with Elastomeric Seal Ring Joints</u> (Ringtite PVC Pipes)as per specification inclusive of transportation to the Sub-Divisional stores anywhere in A.P, excluding all taxes		
	Pipe Series (S25)	Code	Rate per Meter
	OD 160 mm	MAT-07697	474
	OD 200 mm	MAT-07698	718
	OD 250mm	MAT-07699	1117
	OD 315 mm	MAT-07700	1760
	Pipe Series (S20)		
	OD 125 mm	MAT-07701	369
	OD 160 mm	MAT-07702	583
	OD 200 mm	MAT-07703	887
	OD 250mm	MAT-07704	1383
	OD 315 mm	MAT-07705	2171
	Pipe Series (S16.5)		
	OD 110 mm	MAT-07706	322
	OD 125 mm	MAT-07707	434
	OD 160 mm	MAT-07708	681
	OD 200 mm	MAT-07709	1051
	OD 250mm	MAT-07710	1633
	OD 315 mm	MAT-07711	2578

Note: The resin cost adopted for the above rates is Rs.137630/- per MT (Excluding all taxes).The variation in cost of PVC pipes due to increase / decrease in raw material cost shall be allowed subject to the following price variation formula.

The price variation formula to be adopted is as follows:

$$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95 \text{ (for increase in raw material cost)}$$

$$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95 \text{ (for decrease in raw material cost)}$$

P2 = Revised pipe price in Rs. per Meter

P1 = Existing pipe price in Rs. per Meter

A2 = Revised price of raw material Rs. per MT

A1 = Existing price of raw material Rs. per MT

M = Weight of pipe in Kg's per Meter as per weight chart.

The above formula for calculation of revised cost to be used for preparation of Estimates only.

23. SoR FOR CENTRIFUGALLY CAST (SPUN)IRON PRESSURE PIPES

Sl. No.	Description	Unit	S.S. Rates for 2022-23					
I	Socket and Spigot Centrifugally Cast (Spun) Iron pressure pipes for water, Gas and Sewage conforming to specification No: IS 1536/1989 (third revision) with amdt. No: 1 & 2 in standard lengths of 3.66 m, 4 m, 4.5m, 5 m, 5.5 m & 6 m and details given below, suitable either for lead jointing or rubber gasket (push on) jointing at purchasers option at ex-factory excluding transportation and all taxes.							
	Nominal dia. (in MM)		Code	LA Class	Code	A Class	Code	B Class
	80	Rmt	MAT-07712	1260	MAT-07729	1370	MAT-07746	1461
	100	Rmt	MAT-07713	1560	MAT-07730	1718	MAT-07747	1833
	125	Rmt	MAT-07714	2020	MAT-07731	2207	MAT-07748	2374
	150	Rmt	MAT-07715	2466	MAT-07732	2702	MAT-07749	2905
	200	Rmt	MAT-07716	3606	MAT-07733	3912	MAT-07750	4225
	250	Rmt	MAT-07717	4860	MAT-07734	5291	MAT-07751	5711
	300	Rmt	MAT-07718	6267	MAT-07735	6851	MAT-07752	7408
	350	Rmt	MAT-07719	7895	MAT-07736	8563	MAT-07753	9269
	400	Rmt	MAT-07720	9608	MAT-07737	10499	MAT-07754	11312
	450	Rmt	MAT-07721	11586	MAT-07738	12728	MAT-07755	13702
	500	Rmt	MAT-07722	13562	MAT-07739	14775	MAT-07756	15952
	600	Rmt	MAT-07723	18074	MAT-07740	19731	MAT-07757	21329
	700	Rmt	MAT-07724	23326	MAT-07741	25483	MAT-07758	27472
	750	Rmt	MAT-07725	26122	MAT-07742	28561	MAT-07759	30919
	800	Rmt	MAT-07726	29242	MAT-07743	31862	MAT-07760	34394
	900	Rmt	MAT-07727	35619	MAT-07744	38862	MAT-07761	42020
	1000	Rmt	MAT-07728	42791	MAT-07745	46746	MAT-07762	50385
II	Conveyance of Centrifugally Cast (Spun) Iron Pressure Pipes and accessories including loading at Factory, un-loading at site and stacking for the following sizes. (The Minimum distance/lead in Km for destination below 100 Km to be taken as 100 Km)							
	SIZE IN MM UNIT		LA		A		B	
	80 Per KM/RMT		0.31		0.31		0.31	
	100 Per KM/RMT		0.31		0.31		0.31	
	125 Per KM/RMT		0.47		0.47		0.47	
	150 Per KM/RMT		0.47		0.47		0.47	
	200		0.79		0.79		0.79	

	Per KM/RMT				
	250 Per KM/RMT		0.95	0.95	0.95
	300 Per KM/RMT		1.25	1.25	1.25
	350 Per KM/RMT		1.72	1.72	1.72
	400 Per KM/RMT		2.03	2.03	2.03
	450 Per KM/RMT		2.35	2.35	2.35
	500 Per KM/RMT		2.81	2.81	2.81
	600 Per KM/RMT		2.81	2.81	2.81
	700 Per KM/RMT		2.81	2.81	2.81
	750 Per KM/RMT		4.69	4.69	4.69
	800 Per KM/RMT		7.97	7.97	7.97
	900 Per KM/RMT		7.97	7.97	7.97
	1000 Per KM/RMT		7.97	7.97	7.97

Note: Price Variation Formula due to Increase / Decrease in the cost of pig iron.

$$P2 = P1 + (R2 - R1) / 1000 * M * 1.0$$

Where M = Weight of pipe in kg per Meter.

P2 = Revised rate of pipe in Rs. per Rmt

P1 = Rate of pipe in Rs. per Rmt as per above table.

R2 = Price of Pig Iron (Rs per MT excluding all taxes) at the time of preparation of estimate.

R1 = Price of Pig Iron (Rs per MT excluding all taxes) at the time of preparation of SSR = Rs. 60,000/-

The above formula for calculation of revised cost to be used for preparation of Estimates only.

24.S o R FOR DUCTILE IRON PRESSURE PIPES FOR THE YEAR 2022-23

Sl. No.	Description	Unit	Class of Pipe			
1	Centrifugally cast (Spun) Ductile Iron pressure pipes for water, gas and sewage with <u>Socket Spigot ends</u> conforming to IS.: 8329/2000 in standard working lengths of 4, 5 5.5 & 6 meter for classification K9 & K7 suitable for push-on-joint (rubber gasket d jointing) with cement mortar lining inside the pipes with outside zinc coating. Rates are ex-factory, excluding transportation and all taxes.					
	Nominal Dia. in mm	Rmt	Code	K7	Code	K9
	80	Rmt		996		1180
	100	Rmt	MAT-07763	1190	MAT-07778	1423
	150	Rmt	MAT-07764	1722	MAT-07779	2128
	200	Rmt	MAT-07765	2331	MAT-07780	2838
	250	Rmt	MAT-07766	3100	MAT-07781	3758
	300	Rmt	MAT-07767	3948	MAT-07782	4791
	350	Rmt	MAT-07768	5049	MAT-07783	6043
	400	Rmt	MAT-07769	6054	MAT-07784	7215
	450	Rmt	MAT-07770	7289	MAT-07785	8688
	500	Rmt	MAT-07771	8586	MAT-07786	10031
	600	Rmt	MAT-07772	11487	MAT-07787	13358
	700	Rmt	MAT-07773	14611	MAT-07788	16886
	750	Rmt	MAT-07774	16483	MAT-07789	19120
	800	Rmt	MAT-07775	18142	MAT-07790	20866
	900	Rmt	MAT-07776	22294	MAT-07791	25589
	1000	Rmt	MAT-07777	26334	MAT-07792	30168
	1100	Rmt			MAT-07793	33180
	1200	Rmt			MAT-07794	38730
2	Centrifugally cast (Spun) Ductile Iron pressure pipes for water, gas and sewage with <u>plain ends</u> conforming to IS:8329/2000 in standard working lengths of 4, 5, 5.5 & 6 meter for classification K9 & K7 with cement mortar lining inside the pipes with outside zinc coating. Rates are ex-factory, excluding transportation and all taxes.					
	Nominal Dia. in mm		Code	K7	Code	K9
	100	Rmt	MAT-07795	1071	MAT-07810	1353
	150	Rmt	MAT-07796	1581	MAT-07811	2007
	200	Rmt	MAT-07797	2160	MAT-07812	2715
	250	Rmt	MAT-07798	2815	MAT-07813	3596
	300	Rmt	MAT-07799	3686	MAT-07814	4580
	350	Rmt	MAT-07800	4635	MAT-07815	5693
	400	Rmt	MAT-07801	5586	MAT-07816	6851

	450	Rmt		MAT-07802	6651	MAT-07817	8109					
	500	Rmt		MAT-07803	7906	MAT-07818	9615					
	600	Rmt		MAT-07804	10442	MAT-07819	12469					
	700	Rmt		MAT-07805	13669	MAT-07820	15812					
	750	Rmt		MAT-07806	15257	MAT-07821	17678					
	800	Rmt		MAT-07807	16906	MAT-07822	19533					
	900	Rmt		MAT-07808	20458	MAT-07823	23600					
	1000	Rmt		MAT-07809	24302	MAT-07824	28078					
	1100	Rmt				MAT-07825	30648					
	1200	Rmt				MAT-07826	33086					
3	Centrifugally cast (Spun) Ductile Iron pressure pipes with flanged (welded) ends for water, gas, sewage conforming to IS: 8329/2000 in standard working lengths of 1,2,3, 4, 5 mts for classification K9 with cement mortar lining inside the pipes with outside zinc coating. Rates are ex-factory, excluding transportation and all taxes.											
	Nominal Dia. in mm	Unit	Code	1.0 Mt. Length	Code	2.0 Mt. Length	Code	3.0 Mt. Length	Code	4.0 Mt. Length	Code	5.0 Mt. Length
	80	Each		3520		4603		5651		6581		8964
	100	Each	MAT-07827	3901	MAT-07842	5157	MAT-07857	6409	MAT-07872	7665	MAT-07887	10074
	150	Each	MAT-07828	6231	MAT-07843	8535	MAT-07858	9379	MAT-07873	10180	MAT-07888	13987
	200	Each	MAT-07829	8341	MAT-07844	11375	MAT-07859	12281	MAT-07874	13680	MAT-07889	18488
	250	Each	MAT-07830	10918	MAT-07845	15147	MAT-07860	17064	MAT-07875	18406	MAT-07890	25025
	300	Each	MAT-07831	14054	MAT-07846	19437	MAT-07861	22447	MAT-07876	23915	MAT-07891	32232
	350	Each	MAT-07832	18216	MAT-07847	23987	MAT-07862	29987	MAT-07877	35128	MAT-07892	43145
	400	Each	MAT-07833	24342	MAT-07848	31987	MAT-07863	39786	MAT-07878	43507	MAT-07893	52319
	450	Each	MAT-07834	28765	MAT-07849	38654	MAT-07864	47987	MAT-07879	54353	MAT-07894	64224
	500	Each	MAT-07835	32453	MAT-07850	43098	MAT-07865	53789	MAT-07880	64234	MAT-07895	75123
	600	Each	MAT-07836	42675	MAT-07851	56012	MAT-07866	69876	MAT-07881	83078	MAT-07896	97056
	700	Each	MAT-07837	53254	MAT-07852	70786	MAT-07867	87564	MAT-07882	104987	MAT-07897	118722
	800	Each	MAT-07838	65786	MAT-07853	86012	MAT-07868	107654	MAT-07883	127345	MAT-07898	147678
	900	Each	MAT-07839	81564	MAT-07854	106345	MAT-07869	130187	MAT-07884	155614	MAT-07899	179435
	1000	Each	MAT-07840	99768	MAT-07855	130897	MAT-07870	159786	MAT-07885	189456	MAT-07900	219564
	1100	Each	MAT-07841	140369	MAT-07856	179911	MAT-07871	216705	MAT-07886	243657	MAT-07901	279203
4	Conveyance of Ductile Iron Pressure Pipes and accessories including loading at Factory, un-loading at site and stacking for the following sizes					Class		WELDED DOUBLE FLANGED PIPES				
	SIZE IN MM			UNIT		K7		K9		K9		
	80			Per KM/RMT		0.21		0.21		0.32		
	100			Per KM/RMT		0.25		0.25		0.37		

	150	Per KM/RMT	0.37	0.37	0.49
	200	Per KM/RMT	0.37	0.49	0.74
	250	Per KM/RMT	0.49	0.62	0.98
	300	Per KM/RMT	0.74	0.74	1.24
	350	Per KM/RMT	0.87	0.98	1.49
	400	Per KM/RMT	0.98	1.11	1.73
	450	Per KM/RMT	1.24	1.36	2.10
	500	Per KM/RMT	1.49	1.61	2.47
	600	Per KM/RMT	2.10	2.10	3.21
	700	Per KM/RMT	3.09	3.09	4.70
	750	Per KM/RMT	3.71	3.71	5.68
	800	Per KM/RMT	6.30	6.30	9.39
	900	Per KM/RMT	6.30	6.30	9.39
	1000	Per KM/RMT	6.30	6.30	9.39
	1100	Per KM/RMT	6.30	6.30	9.39
	1200	Per KM/RMT	6.74	6.74	
5	Supply and Delivery of Polyethylene (PE) Sleeves for Ductile Iron Pipes used to guard the pipe against corrosion.				
	DIA. IN MM				
	100 MM DIA.		RMT	MAT-07902	45.00
	150 MM DIA.		RMT	MAT-07903	55.00
	200 MM DIA.		RMT	MAT-07904	70.00
	250 MM DIA.		RMT	MAT-07905	81.00
	300 MM DIA.		RMT	MAT-07906	89.00
	350 MM DIA.		RMT	MAT-07907	100.00
	400 MM DIA.		RMT	MAT-07908	140.00
	450 MM DIA.		RMT	MAT-07909	140.00
	500 MM DIA.		RMT	MAT-07910	169.00
	600 MM DIA.		RMT	MAT-07911	169.00
	700 MM DIA.		RMT	MAT-07912	220.00
	750 MM DIA.		RMT	MAT-07913	220.00
	800 MM DIA.		RMT	MAT-07914	220.00
	900 MM DIA.		RMT	MAT-07915	250.00
	1000 MM DIA.		RMT	MAT-07916	250.00
	1100 MM DIA.		RMT	MAT-07917	308.00
6	Additional price for HAC(high alumina cement mortar lining)				
	DIA. IN MM				
	100 MM DIA.		RMT	MAT-07918	67.00

	150 MM DIA.	RMT	MAT-07919	88.00
	200 MM DIA.	RMT	MAT-07920	108.00
	250 MM DIA.	RMT	MAT-07921	129.00
	300 MM DIA.	RMT	MAT-07922	138.00
	350 MM DIA.	RMT	MAT-07923	157.00
	400 MM DIA.	RMT	MAT-07924	216.00
	450 MM DIA.	RMT	MAT-07925	216.00
	500 MM DIA.	RMT	MAT-07926	266.00
	600 MM DIA.	RMT	MAT-07927	266.00
	700 MM DIA.	RMT	MAT-07928	341.00
	750 MM DIA.	RMT	MAT-07929	341.00
	800 MM DIA.	RMT	MAT-07930	341.00
	900 MM DIA.	RMT	MAT-07931	389.00
	1000 MM DIA.	RMT	MAT-07932	389.00
	1100 MM DIA.	RMT	MAT-07933	389.00
	1200 MM DIA.	RMT	MAT-07934	389.00

Note: Price Variation Formula due to Increase / Decrease in the cost of pig iron.

$P2 = P1 + (R2 - R1) / 1000 * M * 0.96$, Where

M = Weight of pipe in kg per Meter as per I.S.8329-2000.

P2 = Revised rate of pipe in Rs. per Rmt.

P1 = Rate of pipe in Rs. per Rmt. as per above table.

R2 = Price of Pig Iron(Rs per MT)) at the time of preparation of estimate.

R1 = Price of Pig Iron(Rs per MT) at the time of preparation of SoR =Rs.60,000/-(Excluding all taxes).

The above formula for calculation of revised cost to be used for preparation of Estimates only.

25. S o R FOR DUCTILE IRON FITTINGS FOR THE YEAR 2022-23

Sl. No.	Description	Unit	Code	Rate
	Centrifugally cast (spun) Ductile Iron Fittings conforming to IS:9523/2000 having dimensions as per table. The rates mentioned here under are for fittings, zinc coated externally with inside mortar lining (with finishing as per class 13/IS 9523/2000) (ex-works) Excluding Transportation and all Taxes.			
I	DI double socket branch flange Tee			
	Up to 500 x 500 mm dia.	Kg	MAT-07935	139.64
	Above 500 x 500 mm dia.	Kg	MAT-07936	152.64
II	DI All Socket Tees			
	Up to 300 x 300 mm dia.	Kg	MAT-07937	139.64
	Above 300 x 300 mm dia.	Kg	MAT-07938	152.64
III	DI Double socket Tapers (Reducer)			
	Up to 500 x 450 mm dia.	Kg	MAT-07939	139.64
	Above 500 x 450 mm dia.	Kg	MAT-07940	152.64
IV	DI Flanged Socket			
	Up to 500 mm dia.	Kg	MAT-07941	139.64
	Above 500 mm dia.	Kg	MAT-07942	152.64
V	DI Flanged Spigot			
	Up to 500 mm dia.	Kg	MAT-07943	139.64
	Above 500 mm dia.	Kg	MAT-07944	152.64
VI	DI Double Socket Duck Foot Bend			
	Up to 300mm dia.	Kg	MAT-07945	139.64
	Above 300mm dia.	Kg	MAT-07946	152.64
VII	DI Double Flange Duck/Foot bend			
	Up to 300 mm dia.	Kg	MAT-07947	139.64
	Above 300 mm dia.	Kg	MAT-07948	152.64
VIII	DI All socket Cross.			
	Up to 300 x 300 mm dia.	Kg	MAT-07949	139.64
	Above 300 x 300 mm dia.	Kg	MAT-07950	152.64
IX	DI All Flange Tee			
	Up to 500 x 500 mm dia.	Kg	MAT-07951	139.64
	Above 500 x 500 mm dia.	Kg	MAT-07952	152.64
X	DI All Flange Cross			
	Up to 300 x 300 mm dia.	Kg	MAT-07953	139.64
	Above 300 x 300 mm dia.	Kg	MAT-07954	152.64

XI	DI Double Flange Reducer			
	Up to 500 x 450 mm dia.	Kg	MAT-07955	139.64
	Above 500 x 450 mm dia.	Kg	MAT-07956	152.64
XII	Blank Flange			
	Up to 500 mm dia.	Kg	MAT-07957	139.64
	Above 500 mm dia.	Kg	MAT-07958	152.64
XIII	Mechanical Joints			
	Up to 300 mm dia.	Kg	MAT-07959	139.64
	Above 300 mm dia.	Kg	MAT-07960	152.64
XIV	DI Double Socket Bends			
	Up to 500mm dia.	Kg	MAT-07961	139.64
	Above 500 mm dia.	Kg	MAT-07962	152.64
XV	DI Double Flanged Bends			
	Up to 500mm dia.	Kg	MAT-07963	139.64
	Above 500 mm dia.	Kg	MAT-07964	152.64
XVI	DI Manhole Frame &cover	Kg		139.64

**26. S o R FOR RUBBER GASKETS SUITABLE FOR C.I/ D.I. S/S PIPES FOR THE
YEAR 2022-23**

Sl. No.	Description	Unit	Code	Rate
1	2	3	4	
1	Manufacture as per BIS: 12820/89 with S.B.R. Quality Rubber confirming to BIS: 5382/85, supply and delivery of Rubber Gaskets suitable for C.I/ D.I S/S pipes anywhere in A.P. F.O.R. Destination departmental stores including cost of material, loading, incidental handling with companies standard packing, transportation, unloading & stacking but excluding all taxes.			
	80mm dia.	Each	MAT-07965	45
	100mm dia.	Each	MAT-07966	70
	125mm dia.	Each	MAT-07967	84
	150mm dia.	Each	MAT-07968	102
	200mm dia.	Each	MAT-07969	123
	250mm dia.	Each	MAT-07970	138
	300mm dia.	Each	MAT-07971	210
	350mm dia.	Each	MAT-07972	266
	400mm dia.	Each	MAT-07973	294
	450mm dia.	Each	MAT-07974	344
	500mm dia.	Each	MAT-07975	478
	600mm dia.	Each	MAT-07976	604
	700mm dia.	Each	MAT-07977	803
	750mm dia.	Each	MAT-07978	946
	800mm dia.	Each	MAT-07979	1135
	900mm dia.	Each	MAT-07980	1370
	1000mm dia.	Each	MAT-07981	1498

27. SoR FOR CI PIPES AND SPECIALS FOR THE YEAR 2022-23

Sl. No.	Description	Quality or sort	Code	Rate/ Kg including packing, forwarding, Transit risk and delivery anywhere in A.P. for the year 2022-23 (Rs.)
1	Manufacture, Supply and Delivery of Cast Iron Pipes and Fittings (spls.) Conforming to IS. No. 7181/1986, 5531/1988, 3950/1979 and C.I.D Joints confirming to is No.8794/1988 at site of work anywhere in A.P. Including, loading, unloading, transportation to site of work stacking at site transit risk and package, excluding taxes and duties.	I.S. No. 7181/1986 5531/1988 3950/1979 & 8794/1988	MAT-07982	95.77

Foot Note: The rate of CI pipes, CI Specials and CID Joints etc., which are to be incorporated in the SoR are based on the following raw materials cost.

Pig Iron: Rs.60,000/- per M.T. (Excluding all taxes).

Coke : Rs.36,404/- per M.T. (Excluding all taxes).

The rates may be revised depending upon the increase/decrease in the cost of raw materials as per the following method. For every increase/decrease of Rs.1000/- in the cost of raw materials or part there of proportionately.

In respect of Pig Iron: The increase/decrease in cost of CI Specials per Kg is 3.43%.

In respect of coke: The increase/decrease in cost of CI Specials per Kg is 0.67%.

The above price is at site of work.

Note-1: The above formula for calculation of revised cost to be used for preparation of Estimates only.

28. S o R FOR WATER HAMMER CONTROL DEVICES FOR THE YEAR 2022-23
(Rate Each in Rs.)

Sl. No.	Description	TEST PRESSURE							
		10 Kgs/cm ²		15 Kgs/cm ²		20 Kgs/cm ²		25 Kgs/cm ²	
1	Manufacture, Supply and delivery of Air Cushion valves / Quick Released damped Air Valves (QRDA) as per AWWA, Ex-factory excluding transportation and all taxes.								
	DIA. IN MM	Code	Rate/Each	Code	Rate/Each	Code	Rate/Each	Code	Rate/Each
	100	MAT-07983	70689	MAT-07986	81294	MAT-07989	89422	MAT-07992	98361
	150	MAT-07984	107425	MAT-07987	123539	MAT-07990	135892	MAT-07993	149481
	200	MAT-07985	114661	MAT-07988	131858	MAT-07991	145046	MAT-07994	159550
2	Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.	5% on basic cost of valves							

29. S o R FOR VALVES CONFORMING TO IS for normal usage 2022-23.

Sl. No.	Description				
1	Supply, Delivery of D.I double flanged Sluice Valves conforming to IS- 14846 (with up to date amendments, if any) including gear arrangements for the following dia. as per test pressure having Body, Bonnet, Dome, Stool cover, Wedge, Stuffing box, Gland, Thrust plate, Cap/Hand wheel with D.I; Stem, Body seat ring, Wedge facing ring, Bushes, Bolts, Nuts, Pinion and Pinion shaft with Stainless steel (IS 6603) ; Wedge nut, Shoe, Channel with Lead Tin Bronze (IS 318); Gasket with Neoprene Rubber; Gland packing with Rubber; Gear, Gear housing with Cast Steel excluding all taxes and transportation, etc. complete ISI marked.				
		PN 1.0 (MPa)		PN 1.6 (MPa)	
	DIA. IN MM	Code	Rate/Each	Code	Rate/Each
	50		9720		12150
	100		13088		14400
	150		20607		21150
	200		27280		34100
	250		41580		47429
	300		63580		71682
	350		78980		98725
	400		135080		168850
	450	MAT-07995	168080	MAT-08004	210100
	500	MAT-07996	210980	MAT-08005	263725
	550		219780		274725
	600	MAT-07997	270380	MAT-08006	337975
	650		300080		375100
	700	MAT-07998	520080	MAT-08007	650100
	750		564080		705100
	800	MAT-07999	674080	MAT-08008	842600
	850		768680		960850
	900	MAT-08000	875380	MAT-08009	1094225
	1000	MAT-08001	1425380	MAT-08010	1781725
	1100	MAT-08002	1645380	MAT-08011	2056725
	1200	MAT-08003	1865380	MAT-08012	2331725
2	Supply, Delivery of D.I double flanged short/Long body or Wafer Type pattern Butterfly Valves for the following dia. conforming to IS 13095 (with up to date amendments, if any) manually operated having Body, Disc with D.I; Shaft, Seating ring, internal fastenings with Stainless steel (IS: 6603); External bolting with Carbon steel; Seat with Nitrite or EPDM rubber; excluding transportation and all taxes, complete.				
	DIA. IN MM	Code		PN 2.5 (MPa) (Rate/Each)	
	50	MAT-08013		14080	

	100	MAT-08014	16280		
	150	MAT-08015	23980		
	200	MAT-08016	43780		
	250	MAT-08017	49280		
	300	MAT-08018	56980		
	350	MAT-08019	69080		
	400	MAT-08020	100980		
	450	MAT-08021	132880		
	500	MAT-08022	190080		
	550	MAT-08023	210980		
	600	MAT-08024	234080		
	650	MAT-08025	270380		
	700	MAT-08026	328680		
	750	MAT-08027	344080		
	800	MAT-08028	369380		
	850	MAT-08029	388080		
	900	MAT-08030	438680		
	1000	MAT-08031	564080		
	1100	MAT-08032	674080		
	1200	MAT-08033	894080		
3	Supply, Delivery of D.I Double Flanged Swing Check type Reflux valves (Non Return Valves) of following dia. conforming to IS- 5312 (Pts-1&2) (with amendments up to date, if any) having Body, Cover, Door, Bearing holder with D.I; Hinge pin, Door pin, Door suspension pin with Stainless Steel (IS 6603); Body seat ring , Door face ring, Bearing bushes, Plugs for hinge pin with Leaded Tin Bronze (IS 318); Bolts, Nuts with Carbon steel; Gaskets with Rubber; Hinges with Cast steel; excluding transportation and all taxes complete.				
		PN 1.0 (MPa)		PN 1.6 (MPa)	
	DIA. IN MM	Code	Rate/Each	Code	Rate/Each
	50	MAT-08034	10780	MAT-08046	13475
	100	MAT-08035	15180	MAT-08047	18975
	150	MAT-08036	21780	MAT-08048	27225
	200	MAT-08037	29480	MAT-08049	36850
	250	MAT-08038	40480	MAT-08050	50600
	300	MAT-08039	62480	MAT-08051	78100
	350	MAT-08040	74580	MAT-08052	93225
	400	MAT-08041	89980	MAT-08053	112475
	450	MAT-08042	116380	MAT-08054	145475
	500	MAT-08043	192280	MAT-08055	240350
	550	MAT-08044	212080	MAT-08056	265100

	600	MAT-08045	256080	MAT-08057	320100
4	Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.	5% on basic cost of valves			

**30. S o R FOR VALVES FOR HEAVY USUAGE in WTPS, STPS, PUMP HOUSES,
PUMPING MAINS & ELSRS 2022-23.**

Sl. No	Description	TEST PRESSURE					
1	Supply and delivery of "Resilient Seated Soft Sealing" Gate Valves (Sluice Valves) with Body and Bonnet of Ductile Iron GGG-40/SG-400/15 or GGG-50/SG-500/7 or Equivalent as per IS1865, IS:3896-2 and Wedge fully Rubber Lined with food grade quality grade W270 grade EPDM, Replaceable Spindle Nut without gland packing with 3-O ring protection system on the Shaft and Seals of NBR. The Valves should be Vacuum tight and 100% leak proof with face to face dimensions as BS:5163 Type A/IS:14846. All the valves should be with fusion bonded Electrostatic Powder coating both inside and outside (Min 250 Microns)- RAL 5005 with Pocket Less Straight through body Passage conforming to Design standards of DIN-3202F4/BS:5163 Type A Flange drilling as per IS - 1538 excluding all taxes, duties and transportation.	PN 1.0 (MPa)		PN 1.6 (MPa)		PN 2.5 (MPa)	
	A) Without By-Pass	Code	Rate/Each	Code	Rate/Each	Code	Rate/Each
	50	MAT-08058	7669	MAT-08067	7669	MAT-08076	13865
	80	MAT-08059	9922	MAT-08068	9922	MAT-08077	17094
	100	MAT-08060	11880	MAT-08069	12957	MAT-08078	19381
	150	MAT-08061	18480	MAT-08070	20401	MAT-08079	32327
	200	MAT-08062	23980	MAT-08071	29975	MAT-08080	54524
	250	MAT-08063	30580	MAT-08072	38225	MAT-08081	80987
	300	MAT-08064	56980	MAT-08073	70965	MAT-08082	131363
	350	MAT-08065	78980	MAT-08074	98725	MAT-08083	384409
	400	MAT-08066	100980	MAT-08075	126225	MAT-08084	390996
	B) With By-Pass						
	450		165880		207350		
	500		212080		265100		
	550		234080		292600		
	600		300080		375100		
	650		344080		430100		
	700		432080		540100		
2	Supply & Delivery of Tamper Proof DI Flanged Single Chamber Air Release Valves with body & cover made of Ductile Iron Grade GGG-40/SG-400/15 or GGG-50/SG-500/7 or Equivalent as per IS1865, IS:3896-2 with Food Grade Epoxy Powder Coating(EP-P) (Min:250 Micron) inside and Outside of Color Blue RAL 5005. All internal parts such as Float, shell, Cove Bolts etc. made of Austenitic alloy steel of SS AISI 304/316 and DN 50 float of and other components with ABS/PTFE/EPDM/NBR and generally conforming to DIN/BIS/AWWA standards (or) combination Flange drilling as per IS - 1538 and exclusive of all taxes and transportation.	PN 1.0 (MPa)		PN 1.6 (MPa)		PN 2.5 (MPa)	
	DIA. IN MM	Code	Rate/Each	Code	Rate/Each	Code	Rate/Each

	25	MAT-08085	4180	MAT-08093	5225		
	40	MAT-08086	7480	MAT-08094	9350	MAT-08101	53890
	50	MAT-08087	10780	MAT-08095	13475	MAT-08102	44092
	80	MAT-08088	18480	MAT-08096	23100	MAT-08103	45715
	100	MAT-08089	23980	MAT-08097	29975	MAT-08104	61378
	150	MAT-08090	45980	MAT-08098	57475	MAT-08105	74257
	200	MAT-08091	66538	MAT-08099	66538	MAT-08106	82766
	300	MAT-08092	108680	MAT-08100	111150		
3	<p>Manufacture, Supply and delivery of DI D/F Tilting disc Swing Check Valves Slanted seated with maximum swing of 59 degree with metallic, corrosion proof and wear resistant seat faces, Body and Disc of ductile cast iron GGG-40/SG-400/15 or GGG-50/SG-500/7 or Equivalent as per IS1865, IS:3896-2 Shafts of stainless steel, shaft bearing of zinc free bronze and Integral body seat face & disc face with nickel-chromium overlay welding and micro finished. All the inside and outside of the body is to be coated with double coating of food grade epoxy liquid lacquer (EP-F) with minimum thickness of 150 microns, color: RAL 5005 Blue face to face dimensions according to EN 558-1/14/DIN 3202-F4, Flange dimensions according to EN1092-2/IS 1538</p>						
	DIA. IN MM	PN 1.0 (MPa)		PN 1.6 (MPa)		PN 2.5 (MPa)	
	a)Without By-Pass	Code	Rate/Each	Code	Rate/Each	Code	Rate/Each
	80	MAT-08107	11880	MAT-08123	14850	MAT-08139	23760
	100	MAT-08108	16280	MAT-08124	20350	MAT-08140	32560
	150	MAT-08109	21780	MAT-08125	27225	MAT-08141	43560
	200	MAT-08110	27280	MAT-08126	34100	MAT-08142	54560
	250	MAT-08111	39380	MAT-08127	49225	MAT-08143	78760
	300	MAT-08112	56980	MAT-08128	71225	MAT-08144	113960
	b)With By-Pass						
	350	MAT-08113	67980	MAT-08129	84975	MAT-08145	135960
	400	MAT-08114	104280	MAT-08130	130350	MAT-08146	208560
	450	MAT-08115	135080	MAT-08131	168850	MAT-08147	270160
	500	MAT-08116	149380	MAT-08132	186725	MAT-08148	298760
	550	MAT-08117	168080	MAT-08133	210100	MAT-08149	336160
	600	MAT-08118	206580	MAT-08134	258225	MAT-08150	413160
	650	MAT-08119	248380	MAT-08135	310475	MAT-08151	496760
	700	MAT-08120	303380	MAT-	377520	MAT-08152	606760

				08136					
	750	MAT-08121	328680	MAT-08137	410850				657360
	800	MAT-08122	369380	MAT-08138	461725				738760
	850		388080		485100				776160
	900		438680		548350				877360
	1000		548680		685850				1097360
	1100		850850		935935				
	1200		1100000		1210000				
4	<p>Manufacture, Supply and delivery of DI D/F Butterfly Valves, Body and disc of Ductile Iron of grade GGG-40/SG-400/15 or GGG-50/SG-500/7 or Equivalent as per IS1865, IS:3896-2 Double eccentrically designed Disc., with renewable soft seal on the disc and Integral Body seat face of nickel-chromium overlay welding (Fusion Bonded) micro finished, 100 % leak tight in both directions, Medium free bearings and with minimum thickness of 250 microns Fusion bonded food grade epoxy coating and 1200mm dia. and above food grade liquid Epoxy coating of minimum 150 microns applied on both body and disc inside and outside. Face to face dimensions as per EN558-1/IS 13095 body or IS: 13095 long body design standard as per EN 593/IS 5163 Flange drilling as per EN 1092-2/ IS 1538 the Valve should be suitable for buried application.</p>								
	DIA. IN MM	Code	PN 1.0 (MPa)	Code	PN 1.6 (MPa)	Code	PN 2.5 (MPa)	Code	PN 4.0 (MPa)
	150	MAT-08153	19580	MAT-08173	24475	MAT-08193	39160	MAT-08213	146478
	200	MAT-08154	27280	MAT-08174	34100	MAT-08194	54560	MAT-08214	178108
	250	MAT-08155	38280	MAT-08175	47850	MAT-08195	76560	MAT-08215	249581
	300	MAT-08156	47080	MAT-08176	58850	MAT-08196	94160	MAT-08216	262068
	350	MAT-08157	65780	MAT-08177	82225	MAT-08197	131560	MAT-08217	285236
	400	MAT-08158	87780	MAT-08178	109725	MAT-08198	175560	MAT-08218	436082
	450	MAT-08159	98780	MAT-08179	123475	MAT-08199	197560		-
	500	MAT-08160	127380	MAT-08180	159225	MAT-08200	254760	MAT-08219	538878
	550		149380		186725		298760		
	600	MAT-08161	168080	MAT-08181	210100	MAT-08201	336160	MAT-08220	590468
	650		190080		237600		380160		
	700	MAT-08162	218680	MAT-08182	273350	MAT-08202	437360		
	750		248380		310475		496760		
	800	MAT-08163	279180	MAT-08183	348975	MAT-08203	558360		
	850		300080		375100		600160		
	900	MAT-08164	328680	MAT-08184	410850	MAT-08204	657360		

1000	MAT-08165	454080	MAT-08185	567600	MAT-08205	908160		
1100	MAT-08166	674080	MAT-08186	842600	MAT-08206	1348160		
1200	MAT-08167	784080	MAT-08187	980100	MAT-08207	1568160		
1300		1004080		1255100		2008160		
1400	MAT-08168	1098680	MAT-08188	1373350	MAT-08208	2197360		
1500		1379180		1723975		2758360		
1600	MAT-08169	1367080	MAT-08189	1708850	MAT-08209	2734160		
1700		1928080		2410100		3856160		
1800	MAT-08170	2116180	MAT-08190	2645225	MAT-08210	4232360		
1900		2399980		2999975		4799960		
2000	MAT-08171	2547380	MAT-08191	3184225	MAT-08211	5094760		
2100		2662880		3328600		5325760		
2200	MAT-08172	2838880	MAT-08192	3548600	MAT-08212	5677760		

5 Supply delivery of Double Flanged Slant seat Swing Check Valve (NRV) with body and Disc of Ductile Iron GGG-40/SG-400/15 or GGG-50/SG-500/7 or Equivalent as per IS1865, IS:3896-2 with fully encapsulated in Vulcanized EPDM rubber & Fusion bonded Electro Static epoxy powder coating inside and outside color Blue RAL 5005 with Min. Coating thickness of 250 microns. The EPDM rubber & Epoxy rubber & Epoxy powder should conform to W 270 standards (Drinking water application) and face to face dimensions as per EN 558-1 / DIN 3202-F6 / IS 5312 & Flange connections as per IS:1538 excluding all duties, taxes and transportation.

DIA. IN MM	PN 1.0 (MPa)		PN 1.6 (MPa)		PN 2.5 (MPa)	
	Code	Rate/Each	Code	Rate/Each	Code	Rate/Each
a) Without By-Pass						
80		13514		14865		
100		18480		23100		
150		27280		34100		
200		32780		40975		167578
250		43780		54725		203526
300		54780		68475		247771
b) With By-Pass						
350		78980		98725		
400		96580		120725		
450		107580		134475		
500		149380		186725		
550		182380		227975		
600		218680		273350		

NOTE:-1) All the prices are ex-go down /ex-factory. Packaging and Transportation extra at 5% on basic cost. The grade of DI & conformation to specifications shall be certified by a third party Quality Control Agency approved by indenting authority at the cost of supplier.

31. S o R FOR SFRC MAN-HOLE FRAME WITH COVERS FOR THE YEAR 2022-23.

Sl. No.	Description	Unit	Code	Rate
I	Manufacture as per BIS:12592 (Part 1&2) Supply & Delivery of manhole covers and frames with ISI marking anywhere in A.P., F.O.R. destination including, loading, un-loading & stacking at site but excluding all taxes.			
a)	M.D. -10 with 500mm dia. Clear opening	Each	MAT-08221	1543.00
b)	H.D.-20 with 500mm dia. Clear opening	Each	MAT-08222	1989.00
C)	H.D.-10with 560mmdia. clear opening(New item)	Each	MAT-08223	1560.00
d)	H.D.-20 with 560mm dia. Clear opening	Each	MAT-08224	2133.00
e)	E.H.D.-35 with 560mm dia. Clear opening.	Each	MAT-08225	2286.00
f)	24x24 MD 10	Each	MAT-08226	1682.00
g)	24x18 MD 10	Each	MAT-08227	1548.00
h)	24x24 HD 20	Each	MAT-08228	1890.00
i)	24x18 HD 20	Each	MAT-08229	1927.00
j)	Dividers 0.9 Mtr.	Each	MAT-08230	3957.00
II	Manufacture as per company's standard specification supply and delivery of encapsulated plastic steps for man holes anywhere in A.P. including cost of materials packing as per company's standards, loading, transportation, unloading and stacking at site of work etc, complete but excluding all taxes.	Each	MAT-08231	166.00

32. S o R FOR CI and M.S. DISMANTLING JOINTS FOR THE YEAR 2022-23

Sl.No.	Description	Unit	Code	Rate
1	Manufacture, Supply and Delivery of C.I Dismantling Joints with both side flange end suitable for installation in between flange end pipes. These rates are excluding all taxes.			
	Nominal Dia. In MM			
	50	Each	MAT-08232	4826
	80	Each	MAT-08233	5282
	100	Each	MAT-08234	6900
	125	Each	MAT-08235	8800
	150	Each	MAT-08236	9777
	200	Each	MAT-08237	13864
	250	Each	MAT-08238	16504
	300	Each	MAT-08239	26409
2	Manufacture, Supply and Delivery of M.S. Dismantling Joints with both side flange end suitable for installation in between flange end pipes. Thickness as per IS: 7322. These rates are excluding all taxes.			
	Nominal Dia. In MM			
	350	Each	MAT-08240	59,785
	400	Each	MAT-08241	68,507
	450	Each	MAT-08242	74,325
	500	Each	MAT-08243	88,959
	600	Each	MAT-08244	1,03,515
	700	Each	MAT-08245	1,15,161
	750	Each	MAT-08246	1,18,075
	800	Each	MAT-08247	1,41,365
	900	Each	MAT-08248	1,47,482
	1000	Each	MAT-08249	1,76,660
	1100	Each	MAT-08250	1,91,245
	1200	Each	MAT-08251	2,20,420
	1300	Each	MAT-08252	2,49,592
	1400	Each	MAT-08253	2,79,334
	1600	Each	MAT-08254	3,08,566
	1800	Each	MAT-08255	3,65,405
	2000	Each	MAT-08256	4,54,730
	3	Conveyance of joints and accessories including loading at factory and unloading, stacking at site of work.	5% on basic cost	

33. OTHER ITEMS FOR THE YEAR 2022-23

Sl. No.	Description	Unit	Code	Rate
1	2	3	4	5
1	SUPPLY AND DELIVERY OF PIG LEAD 99.99 % PURE INCLUDING CONVEYANCE ETC., COMPLETE, BUT EXCLUDING TAXES.	Per Kg	MAT-08257	287
2	SUPPLY AND DELIVERY OF LEAD WOOL BEST QUALITY INCLUDING CONVEYANCE ETC., COMPLETE, BUT EXCLUDING TAXES.	Per Kg	MAT-08258	260
3	SUPPLY AND DELIVERY OF SPUN YARN OF BEST QUALITY INCLUDING CONVEYANCE ETC., COMPLETE, BUT EXCLUDING TAXES.	Per Kg	MAT-08259	116
4	SUPPLY AND DELIVERY OF RUBBER PACKING INCLUDING CONVEYANCE ETC., COMPLETE, BUT EXCLUDING TAXES.			
	a) 3 mm thick	Per Kg	MAT-08260	93
	b) 6 mm thick	Per Kg	MAT-08261	93
5	SUPPLY AND DELIVERY OF BOLTS AND NUTS WITH DOUBLE WASHERS INCLUDING CONVEYANCE ETC., COMPLETE, BUT EXCLUDING TAXES. (1/2" TO 1")	Per Kg	MAT-08262	111

**34. S o R FOR TRENCH LESS TECHNOLOGY WITH PIPE JACKING METHOD FOR
THE YEAR 2022-23**

Sl. No.	Description	Unit	Code	Rate
1	Railway crossing/Road crossing/Canal crossing by adopting trenchless technology tunneling work through specialized pipe jacking method by erecting the equipment to true to the alignment and gradient, by hydraulic pipe jacking technique complete including tunneling, excavation in all types of soils including hard rock and construction of RCC chambers suitable to casing pipe pits, and conveyance charges of machinery and other required materials but excluding cost of encasing pipe, in co-ordination with the concerned authorities as per approved drawings and directed by the Engineer-in –Charge.			
	800 mm dia.	Rmt	MAT-08263	27300.00
	900 mm dia.	Rmt	MAT-08264	28665.00
	1000 mm dia.	Rmt	MAT-08265	30030.00
	1100 mm dia.	Rmt	MAT-08266	31395.00
	1200 mm dia.	Rmt	MAT-08267	32760.00
	1300 mm dia.	Rmt	MAT-08268	34125.00
	1400mm dia.	Rmt	MAT-08269	36855.00
	1500 mm dia.	Rmt	MAT-08270	40950.00

35.SOR FORHOUSE SERVICE CONNECTIONSFOR THE YEAR 2022-23

Sl. No.	Description	Unit	Code	Rate
1	<p><u>House service connections (Compression Fittings)</u> Supply and Fixing of compression fittings shall comply with ISO 17885 2015, PN-16 rating and manufactured from virgin resin of PE-80 having blue color. Raw material must be WRAS approved as per BS 6920 for effect on water quality intended for human consumption. Compression fittings should have moulded in SS 304 threaded insert outlet with thread dimension confirming to IS 554/ISO 7. The cost shall include testing of all materials, labor, inspection charges, transportation up to site, transit insurance, loading, unloading, stacking and fixing etc, complete as specified and directed by the departmental Engineer in charge, but excluding all taxes.</p>			
	Compression male/female threaded adaptor with SS insert D20 mm X 1/2 "	Each	MAT-08296	103.00
	Compression male/female threaded adaptor with SS insert D25 mm X 3/4 "	Each	MAT-08297	137.00
	Compression male/female threaded adaptor with SS insert D32 mm X 1 "	Each	MAT-08298	191.00
	Compression male/female threaded elbow with SS insert D20 mm X 1/2 "	Each	MAT-08299	106.00
	Compression male/female threaded elbow with SS insert D25 mm X 3/4 "	Each	MAT-08300	143.00
	Compression male/female threaded elbow with SS insert D32 mm X 1 "	Each	MAT-08301	198.00
	Double Compression elbow 20 mm 64	Each	MAT-08302	48.00
	Double Compression elbow 25 mm 79	Each	MAT-08303	66.00
	Double Compression elbow 32 mm	Each	MAT-08304	94.00
2	<p><u>House service connections (Composite strap saddle for DI/CI pipes)</u> Supply and fixing of composite strap saddle shall be of wrap around design pN-16 rating. Body shall be manufactured using virgim compounded PE 80/PE 100 polymer with stainless steel 304 grade stirrup plate mounted with PE straps (Engineering Plastic) with Nut bolt joint, sealing between the saddle and mains shall be obtained by using an elastomer seal (Underneath projection for self interlocking). The cost shall include testing of all materials, labor, inspection charges, transportation up to site, transit insurance, loading, unloading, stacking and fixing etc, complete as specified and directed by the departmental Engineer in charge, but excluding all taxes.</p>			
	(Main pipe outer diameter in mm & tapping size in inches)			
	100 x 1/2"	Each		450.00
	100 x 3/4"	Each		502.00
	100 x 1"	Each		535.00
	150 x 1/2"	Each	MAT-08305	470.00
	150 x 3/4"	Each	MAT-08306	522.00
	150 x 1"	Each	MAT-08307	555.00

	200 x 1/2"	Each	MAT-08308	490.00
	200 x 3/4"	Each	MAT-08309	542.00
	200 x 1"	Each	MAT-08310	575.00
3	House service connections (Regulating ferrule) The Ferrule of pressure rating PN 10 and shall comply with IS 2692:1989. The cost shall include testing of all materials, labor, inspection charges, transportation up to site, transit insurance, loading, unloading, stacking and fixing etc, complete as specified and directed by the departmental Engineer in charge, but excluding all taxes.			
	1/2"	Each	MAT-08311	182.00
	3/4"	Each	MAT-08312	300.00
	1"	Each	MAT-08313	523.00
4	House service connections (PP Saddle)PP Clamp saddles-PP clamp Saddles shall be manufactured by injection moulding using virgin polypropylene. Mechanical tapping saddles for water works purposes and designed for use with PVC/PE pipe as per IS 4985/IS 4984 respectively. These saddles should be contoured to fit around the pipe. PP saddles shall be Blue/Black moulded-in with Nickel plated Brass / SS 304 metal female threaded outlets. Seal shall be thermoplastic elastomer rubber suitable for drinking water and nut-bolt-washer with SS. The PP Clamp saddle fittings shall be mouldedwith SS 304/Nickel plated Brass female threaded outlet inserted to connect necessary fittings. Thread dimension shall conform to IS-554/ISO-7. Adequate thickness of PP shall be provided to hold brass insert in place and avoid leakage while pressure applications. Fasteners shall be threaded type, with SS. Fasteners of size 125mm and above. The grade of raw material used must be certified by WRAS, UK for type test as per BS 6920 from their certified laboratories like NSF International Ltd. UK and certificate of Compliance to be produced for the following parameters: i) Odour&Flavour of water ii) Appearance of water iii) Growth of Micro Organism iv) Extraction of Substances that may be of concern to public health (Cyto toxicity) v) Extraction of Metals excluding all taxes.			
	(Main pipe outer diameter in mm & tapping size in inches)			
	63x1/2"	Each	MAT-08314	127.00
	63x3/4"	Each	MAT-08315	127.00

	63x1"	Each	MAT-08316	127.00
	75x1/2"	Each	MAT-08317	148.00
	75x3/4"	Each	MAT-08318	148.00
	75x1"	Each	MAT-08319	148.00
	90x1/2"	Each	MAT-08320	169.00
	90x3/4"	Each	MAT-08321	169.00
	90x1"	Each	MAT-08322	169.00
	110x1/2"	Each	MAT-08323	203.00
	110x3/4"	Each	MAT-08324	203.00
	110x1"	Each	MAT-08325	203.00
	125x1/2"	Each	MAT-08326	242.00
	125x3/4"	Each	MAT-08327	242.00
	125x1"	Each	MAT-08328	242.00
	140x1/2"	Each	MAT-08329	288.00
	140x3/4"	Each	MAT-08330	288.00
	140x1"	Each	MAT-08331	288.00
	160x1/2"	Each	MAT-08332	344.00
	160x3/4"	Each	MAT-08333	353.00
	160x1"	Each	MAT-08334	353.00
	180x1/2"	Each	MAT-08335	359.00
	180x3/4"	Each	MAT-08336	449.00
	180x1"	Each	MAT-08337	499.00
	200x1/2"	Each	MAT-08338	379.00
	200x3/4"	Each	MAT-08339	469.00
	200x1"	Each	MAT-08340	519.00
5	Supply and Fixing of Meter Box / Valve box is recommended to encompass & protect Water meters/valves installed on drinking water supply pipes. Meter Box manufacturers must have ISO 9001, ISO 14001 and ISO 18001 certification for their QMS, EMS & OHSAS systems. Meter Box should be of two components, comprising body and lid. Provision for embossed marking on the lid as per customer requirement, Nominal Size of box should be 8" X 12" with Rectangular shape ,Minimum Dimensions: Length 355mm x height 180mm x width 270mm,Locking: with Built in lock.			
	METER BOX 8X12 WITH BUILT IN LOCK,	Each		300

36. SoR FOR ARC WELDED M.S PIPEFOR THE YEAR 2022-23

Manufacture, supply and delivery of submerged ARC welded M.S Pipe having beveled ends from plate or coil conforming to IS-3589 and/or IS-5504 with its latest revision / amendment with inside 406 micron thick food grade epoxy coating and outside 3LPE coating conforming to DIN 30670 / Polyolefin Tape coating conforming to AWWA C214 for the specified thickness & inner diameter of pipe, external field joint coating with polyolefin backing and internal field joint coating with chemically cured 2 part epoxy based solvent free liquid coating material for Drinking Water NSF approved etc., complete including all labour, materials and ROU/ROW as per specification and to the satisfaction of Engineer-in-charge excluding transportation and GST.

Inner Diameter (mm)	Outer Diameter (mm)	Thickness (mm)	Code	MS Pipe Rate with Internal 406 micron thick food grade epoxy coating and 3LPE coating conforming to DIN 30670	Code	MS Pipe Rate with Internal 406 micron thick food grade epoxy coating and Polyolefin Tape coating conforming to AWWA C214
500	510	5	MAT-08344	5723	MAT-08408	5634
500	511.20	5.60	MAT-08345	6165	MAT-08409	6084
500	512.60	6.30	MAT-08346	6681	MAT-08410	6600
500	522	11	MAT-08347	10186	MAT-08411	10104
600	611.60	5.80	MAT-08348	7558	MAT-08412	7462
600	612.60	6.30	MAT-08349	7998	MAT-08413	7902
600	625	12.50	MAT-08350	13522	MAT-08414	13424
700	712.60	6.30	MAT-08351	9285	MAT-08415	9204
700	714.20	7.10	MAT-08352	10101	MAT-08416	10024
700	728.40	14.20	MAT-08353	17422	MAT-08417	17390
800	814.20	7.10	MAT-08354	11526	MAT-08418	11440
800	816	8	MAT-08355	12573	MAT-08419	12494
800	836	18	MAT-08356	24369	MAT-08420	24365
900	916	8	MAT-08357	14125	MAT-08421	14040
900	917.60	8.80	MAT-08358	15172	MAT-08422	15093
900	920	10	MAT-08359	16745	MAT-08423	16677
900	935	17.50	MAT-08360	26672	MAT-08424	26669
1000	1017.60	8.8	MAT-08361	16837	MAT-08425	16752
1000	1020	10	MAT-08362	18581	MAT-08426	18508
1000	1040	20	MAT-08363	33269	MAT-08427	33296
1050	1067.60	8.80	MAT-08364	17670	MAT-08428	17583
1050	1070	10	MAT-08365	19499	MAT-08429	19423
1050	1072	11	MAT-08366	21026	MAT-08430	20961
1100	1117.6	8.8	MAT-08367	18587	MAT-08431	18412

1100	1120	10	MAT-08368	20515	MAT-08432	20339
1100	1122	11	MAT-08369	22124	MAT-08433	21947
1200	1220	10	MAT-08370	22362	MAT-08434	22170
1200	1222	11	MAT-08371	24114	MAT-08435	23922
1200	1225	12.50	MAT-08372	26748	MAT-08436	26556
1300	1325	12.50	MAT-08373	28952	MAT-08437	28744
1300	1328.40	14.20	MAT-08374	32189	MAT-08438	31980
1400	1425	12.50	MAT-08375	31155	MAT-08439	30931
1400	1428.40	14.20	MAT-08376	34634	MAT-08440	34410
1500	1528.40	14.20	MAT-08377	37082	MAT-08441	36841
1500	1532	16	MAT-08378	41031	MAT-08442	40792
1600	1628.40	14.20	MAT-08379	39528	MAT-08443	39274
1600	1632	16	MAT-08380	43733	MAT-08444	43480
1700	1728.40	14.20	MAT-08381	41973	MAT-08445	41705
1700	1732	16	MAT-08382	46435	MAT-08446	46169
1700	1735	17.50	MAT-08383	50160	MAT-08447	49898
1800	1828.40	14.20	MAT-08384	44419	MAT-08448	44137
1800	1832	16	MAT-08385	49137	MAT-08449	48859
1800	1835	17.50	MAT-08386	53077	MAT-08450	52801
1900	1932	16	MAT-08387	51839	MAT-08451	51548
1900	1935	17.50	MAT-08388	55993	MAT-08452	55704
1900	1940	20	MAT-08389	62930	MAT-08453	62646
2000	2032	16	MAT-08390	54542	MAT-08454	54236
2000	2035	17.50	MAT-08391	58909	MAT-08455	58608
2000	2040	20	MAT-08392	66203	MAT-08456	65907
2100	2135	16	MAT-08393	61826	MAT-08457	61512
2100	2140	17.50	MAT-08394	69476	MAT-08458	69169
2100	2144.40	20	MAT-08395	76224	MAT-08459	75921
2200	2235	17.50	MAT-08396	64742	MAT-08460	64415
2200	2240	20	MAT-08397	72750	MAT-08461	72429
2200	2244.40	22.20	MAT-08398	79811	MAT-08462	79498
2300	2340	20	MAT-08399	76023	MAT-08463	75691
2300	2344.40	22.20	MAT-08400	83399	MAT-08464	83074
2300	2350	25	MAT-08401	92806	MAT-08465	92489
2400	2440	20	MAT-08402	79296	MAT-08466	78951
2400	2444.40	22.20	MAT-08403	86986	MAT-08467	86648
2400	2450	25	MAT-08404	96793	MAT-08468	96465
2500	2540	20	MAT-08405	82569	MAT-08469	82213
2500	2544.40	22.20	MAT-08406	90573	MAT-08470	90224
2500	2550	25	MAT-08407	100780	MAT-08471	100441

37. SoR FOR HDPE ELECTRICAL PIPE CONDUITS FOR THE YEAR 2022-23

Supply of the HDPE Electrical pipe conduits with permanent Lubricant inner layer with ribs , dimensional ratio of 13.5, deflection not greater than 5% when exposed to the normal operating temperature 90 degrees centigrade under the overburden soil pressure and other physical properties confirming to ASTM F 2160 and / or NEMA TC 7 (The expected service life of HDPE Pipe conduit and accessories shall not be less than 50 years)including transportation and excluding GST

Diameter	Code	Rate per Rmt
160 mm	MAT-08472	1221
200 mm	MAT-08473	1981
225mm	MAT-08474	2902
7 way (Multi duct for ICT)	MAT-08475	955

38. SoR FOR BORE WELL DRILLING RATES FOR THE YEAR 2022-23

S.No	Type of Bore Well	Rate in Rs.
1	Drilling of Bore well with DTH Rig per RM	
	Drilling of Bore well by down the hole hammer drilling to a finished dia of 112/165 mm dia in all formations suitable for down the hole hammer drilling such as medium hard rock formation to hard rock formation, all consolidated formation etc. and drilling in over burden to dia not less than 200 mm etc and reaming the bore well to suit insertion of suitable casing pipe etc., including insertion of casing pipe with couplings, caps any other relevant materials upto required depth as directed by the department including transportation of drilling rigs and supporting vehicle and including bore development (Flushing of Bore Well at an average pressure of 150 PSI) conducting yield test, consumables charges, Crew charges required in fixation of pipe assembly completely done to the satisfaction of the department and including all labour charges but excluding all taxes, the cost of casing pipe, couplings, cap etc., The entire work should be carried out as per IS -2800 Part I & II 1979 and amended from time to time.	
	Drilling of Bore well 112 mm dia. up to 150.00 m depth	348.20
	Drilling of Bore well 112 mm dia. beyond 150.00 m depth	397.30
	Drilling of Bore well 112 mm dia for Agency area	10% over plain area rates.
	Drilling of Bore well 165 mm dia. up to 90.00 m depth	446.40
	Drilling of Bore well 165 mm dia. above 90.00 m up to 150.00 m depth	477.60
	Drilling of Bore well 165 mm dia. above 150.00 m up to 250.00 m depth	535.70
	Drilling of Bore well 165 mm dia. above 250.00 m to 350.00 m depth	651.70
	Drilling of Bore well 165 mm dia. beyond 350.00 m depth	705.30
	Drilling of Bore well 165 mm dia for Agency area	10% over plain area rates.
2	Drilling of Bore well with Rotary Rig per RM	
	Drilling of Bore hole (which may be carried out by pilot bore hole) to a finished dia of 200/225/300 /350/450 mm hole (for insertion of 110/140/160/180/200mm PVC Pipe / 175/200mm PVC Blue casing pipe) by Rotary drilling rig in all formations suitable for Rotary drilling such as alluvium, Loamy, clayey, sandy, burried channels, highly disturbed and bouldary zones high sheared and fractured zones followed by jointed to massive soft, medium rock, all formations typical and suitable for rotary drilling etc. including insertion of casing pipe , couplings, cap, plug fixation, and including filling the peripheral gap with rebullied pebbled gravel packing, bore development, conducting yield test, and all other required in the fixation of pipes assembly etc. but excluding the cost of casing pipe, couplings, dummys, clamps etc., as recommended by the departmental Geologist. The bore should be developed with compressor air until clear water free from sand and other materials continuously discharged. The size of gravel used for gravel packing should be as per ISI specification used for rotary tube well. The	

	pebbled gravel packing should be carried out in such a way that the theoretical quantity consumed completely.	
	The entire work to be carried out as per I.S. 2800 Part - I & II of 1979 and including cost of all materials and all labour charges and excluding all taxes etc.,	
	Drilling of Bore well of 200/225/300 mm dia for insertion of pipe dia of 100/125 mm	1000
	Drilling of Bore well 350/450mm dia for insertion of pipe dia of 160/175/200 mm	1294.60
	Drilling of Bore wells for Agency area	10% over plain area rates.
3	Drilling of Bore Wells with Hand Bore Set per RM	
	Drilling of Bore well with Hand Bore set to a finished dia of 112/165/175/180 mm justify both sides in all kinds of formations suitable for hand bore set drilling such as black cotton soils, sandy and alluvial soils and insertion of PVC/PVC blue casing pipe with couplings including slotting of pipe where ever required and fixing of bore well with cap and bail plug as per directions of the department for a finished item of work including conducting yield test, crew charges, cost of consumables, transportation charges and bore development charges and all other charges required in fixation of pipe assembly, Flushing of bore with required pressure excluding cost of all required materials such as cap, bail plug, clamp sets, bolts and nuts etc., excluding all taxes , cost of PVC casing pipe, slotting charges.	
	Drilling of Bore well of finished dia of 112 mm	401.70
	Drilling of Bore well of finished dia of 112 mm for Agency	10% over plain area rates.
	Drilling of Bore well of finished dia of 165/175/180 mm	575.90
	Drilling of Bore well of finished dia of 165/175/180 mm for Agency area	10% over plain area rates.
4	Construction of bore well platform	
	Construction of bore well platform of 1.85 m dia and 3.00 m length drain and foot rest of 1.00 x LOU m with CC (1:2:4) using 20 mm H8G metal including cost and conveyance of all materials labour charges, centering, curing, seigniorage charges & excluding taxes etc., complete as per UNICEF type design.	
	For Plain Areas per 1No	8800
	For Agency Areas per 1No	10% over plain area rates.
5	Flushing of bore well	
	Flushing of bore well of dia 165/150 mm with power rig at an average pressure of 150 PSI, including crew charges, completely done to the satisfaction of the department including detachable of all accessories and refix all materials as per the original condition including all labour charges, but excluding cost of materials & excluding taxes etc., complete,	
	for 112 mm dia Bore wells per 1 Job	8000
	for 165/150 mm dia Bore wells per 1 Job	9500
	For Agency Areas	10% over plain

		area rates.
6	Deepening of existing bore wells	
	Deepening of existing bore wells of dia 165/150mm by using DTH rig including flushing the bore well, conducting yield test etc. excluding taxes.	
	for depth up to 150 mm per RM	525
	for depth from 150 mm to 250mm per RM	600
	for depth from 250 mm to 350mm per RM	730
	above 350 mm depth per RM	790
7	Supply, Delivery of ISI marked fully hot dipped galvanized deepwell Inida Mark-H Hand Pump assembly complete unit with 10 Nos of connecting rods (bright bar of 12mm dia and 100 mts length each confirming to IS 9301/1990 & IS 14101 to 14104:1994 with their amendments / revisions but excluding taxes.	
	Indian Mark -II Hand Pump Assembly Set	10900
8	Labour charges for erection of IM-II Hand Pump Assembly with all its accessories and with the required number of 32mm dia CI-13 GI pipes including all taxes and as per the directions of the department officers but excluding taxes.	
	For Plain area	1000
	For Agency area	10% over plain area rates.
9	Casing Pipes and Bore caps excluding taxes	
	Cost and supply of 175 mm dia PVC blue casing pipe per RN3	1100
	Slotting charges for 175 mm dia PVC blue casing pipe per RM	350
	180 mm dia PVC Casing pipe perforation charges per RM	325
	175 mm dia MS Casing pipe perforation charges per RM	395
	Supply & Fixing of 180 mm dia PVC Bore Cap per 1 No	300
10	Geological Survey Charges excluding taxes.	
	for plain area-nob	1200
	for Agency area-Uob	10% over plain area rates.
11	32mm dia GI B-Class pipes per RM	
	for 32mm dia GI B-Class pipes per RM	400

GOVERNMENT OF ANDHRA PRADESH



BUILDINGS SoR: 2022-23

SCHEDULE OF RATES FOR BUILDINGS WORKS

FOR THE YEAR 2022-23

ALL ENGINEERING
DEPARTMENTS

**Office of the Engineer-In-Chief (R&B) Buildings& RSW
Convener-Member,
Committee of Chief Engineers-Buildings-SoR**

Procs.No. 20938/SOR/DCE(B)/EE(B)/DEE(B)/AEE/2021, Dt. 15.06.2022

Sub:- Printing of Buildings-SoR for all the Engineering Departments specific to the functioning of Building works – Buildings-SoR:2022-23– Communication of Buildings-SoR – Reg.,

Ref:- 1. G.O.Rt.No.95, T, R&B (R.1) Dept, dt:18.01.2015.
2. Minutes of Committee of Chief Engineers meetings for finalizing the Building-SoRs held on 03.06.2022

The Government of Andhra Pradesh have constituted a Committee of Engineer -in-Chiefs /Chief Engineers of Engineering departments dealing with Building works for finalizing and communicating Buildings-SoR (Civil & Electrical) vide G.O. 1st cited.

In accordance therewith, the Committee has in their concluding meeting dt: 03.06.2022 finalized and approved the Buildings-SoR: 2022-23.

The rates for the Building items (Civil, Water Supply & Sanitary and Electrical items) are to be followed henceforth by all the concerned departments for building works. The rates for Labour, Common Material & Work items, Public Health items, Conveyance Rates of Materials & Hire charges are applicable as per approved and published Common SoR-2022-23 .

The Heads of Departments mentioned below are authorized to print the Buildings-SoR: 2022-23. Unauthorized printing & selling of the Buildings-SoR is strictly prohibited.

The Buildings SoR 2022-23 will come into force along with common SoR from the date decided by the BoCE.

The receipt of the proceedings may please be acknowledged.

Enclosures: Buildings SoR: 2022-23 as above

8.07.2019SS

Sd/-
P.C Ramesh Kumar
Chief Engineer (R&B) Buildings, RSW ,
NABARD, RR,& LWE,
Convener-Member,
Committee of Chief Engineers-Buildings-SoR

To

- 1) Engineer-In-Chief, Public Health Engineering, Member, Flat No.504 &601, Garuda Enclave, Tadepalli , Guntur-522501.
- 2) Engineer-In-Chief,Panchayathraj, Member, Administration, PMGSY,APRRP-AIIB,VQC,ZP compound, opp PWD Grounds, MG Road, Vijayawada - 520002.

- 3) Engineer-In-Chief, Tribal Welfare , Member, D.No.40-6-22A, Kandhari Hotel Road, Adjacent to Southern Spice, Revenue Colony, Vijayawada-520010.
- 4) Chief Engineer, A.P. Housing Board, Member, D.No. 5-21, Prasadampadu, Elururoad, Vijayawada -521108
- 5) Chief Engineer, A.P.Housing Corporation, S.P's river view apartments, 2nd floor, Tadepalli , Amaravati-522501..
- 6) Chief Engineer, APSRTC, RTC House, 1st Floor of PNBS, Vijayawada.
- 7) Chief Engineer, A.P. Medical Services and Infrastructure Development Corporation, Member, Autonagar, Mangalagiri, 522503. Andhrapradesh
- 8) Chief Engineer, Police Housing Corporation, AP, Member, Tadepalli, Vijayawada
- 9) Chief Engineer (R&B) Electrical, Member, M.G.Road, Vijayawada.
- 10) Chief Engineer, Civil TTD, Member, Administrative Building, KT Road, Tirupathi, 517501 -AP.
- 11) Chief Engineer, O/o Vijayawada Municipal Corporation, Canal road, Krishnalanka, Vijayawada ,520001A.P.

Copy to

1. The Engineer-in-Chief (Admn ,), R&B Department, M.G road, Vijayawada.
2. The Chief Engineer (QC), R&B Department, M.G road , Vijayawada .
3. The Chief Engineer (COT), 76-16-4A/1, 1st floor, Iron Yard, Opp. to Ramayalam, Gollapudi, Vijayawada-520012.
4. The Chief Engineer, APRSCL, D.No.5-21, Hostel Road, Prasadampadu, Vijayawada-521108.
5. The Chief Engineer, APEWIDC, Door No.9-76 , Sai fortune Heights , Block A, Vaddeswaram Village, Guntur District - 522 502.

INDEX FOR BUILDINGS SoR: 2022-23
(Civil, Water Supply & Sanitary, Electrical and Electro-Mechanical items)

Sl. No:	DESCRIPTION	Page No:	
		From	To
BUILDINGS – SoR:2022-23			
	Letter Dt. 15.06.2022 for Communication of Buildings SoR 2021-22 (Civil, Water Supply & Sanitary, Electrical and Electro-Mechanical items)	ii	iii
1	Index for Buildings SoR 2022-23 (Civil, Water Supply & Sanitary, Electrical and Electro-Mechanical items)	1	6
2	Preamble of BuildingsSoR-2022-23(Civil, Water Supply & Sanitary, Electrical and Electro-Mechanical items)	6	9
3	Building Civil Items - Buildings-SoR-2022-23	10	185
4	Note	181	181
5	Water Supply & Sanitary Items - Buildings-SoR-2022-23	185	235
6	Electrical and Electro-Mechanical Items – Buildings-SoR-2022-23		
7	Common SoR- 2022-23 for Labour Rates, Common Material & Work items, Conveyance Rates of Materials & Hire charges		
8	Public Health SoR 2022-23		

INDEX FOR BUILDING CIVIL ITEMS

Sl. No	SECTION	DESCRIPTION OF THE ITEM	FROM	TO
A		BRICKS & BUILDING BLOCKS	11	13
I	SUB-SECTION	ORDINARY CLAY BRICKS		
II	SUB-SECTION	FLY-ASH CEMENT/LIME SOLID BLOCKS		
III	SUB-SECTION	AUTOCLAVED CONCRETE BLOCKS		
B		NATURAL FLOORING STONES	13	14
I	SUB-SECTION	LOCALLY AVAILABLE FLOORING STONES		
II	SUB-SECTION	NATURAL FLOORING STONES - MARBLE		
III	SUB-SECTION	NATURAL FLOORING STONES - GRANITE		
C		WALL & FLOOR TILES	14	20
I	SUB-SECTION	NON-PORCELAIN CERAMIC FLOOR TILES		
II	SUB-SECTION	PORCELAIN VITRIFIED FLOOR TILES		
III	SUB-SECTION	CERAMIC WALL TILES		
IV	SUB-SECTION	PORCELAIN WALL TILES		
V	SUB-SECTION	GLASS MOSAIC TILES		
VI	SUB-SECTION	WALL CLADDING TILES		
VII	SUB-SECTION	EPOXY FLOORING, COVING		
D.		PAVING & INTERLOCKING TILES	20	23
I.	SUB-SECTION	TERRAZZO FLOOR TILES (PLAIN & CHEQUERED)		
II.	SUB-SECTION	CEMENT CONCRETE FLOOR TILES (PLAIN & CHEQUERED)		
III.	SUB-SECTION	PRE-CAST CONCRETE BLOCKS FOR PAVING		
IV.	SUB-SECTION	VINYL FLOORING		
E.		TIMBER & ROOFING MATERIALS	23	25
I	SUB-SECTION	MEDIUM TEAK WOOD		
II	SUB-SECTION	BEST TEAK WOOD		
III	SUB-SECTION	BURMA TEAK WOOD		
IV	SUB-SECTION	ASSAM TEAK WOOD		
V	SUB-SECTION	SAL/ COUNTRY WOOD		
VI	SUB-SECTION	ROOFING MATERIAL		

Sl. No	SECTION	DESCRIPTION OF THE ITEM	FROM	TO
F.		STEEL MATERIALS	25	27
I	SUB-SECTION	MILD STEEL MATERIALS		
II	SUB-SECTION	GALVANIZED STEEL MATERIALS		
III	SUB-SECTION	STAINLESS STEEL MATERIALS		
G.		FIXTURES FOR DOORS & WINDOWS	27	34
I	SUB-SECTION	TOWER BOLTS		
II	SUB-SECTION	HINGES		
III	SUB-SECTION	DOOR HANDLES		
IV	SUB-SECTION	ALDROPS		
V	SUB-SECTION	LATCHES		
VI	SUB-SECTION	DOOR CLOSURES		
VII	SUB-SECTION	FLOOR SPRINGS		
VIII	SUB-SECTION	MORTICE LOCKS		
IX	SUB-SECTION	OTHER ACCESSORIES		
H.		CONSTRUCTION CHEMICALS & ADMIXTURES	34	62
I	SUB-SECTION	REPAIRING & TREATMENT WORKS		
II	SUB-SECTION	INTERGRAL WATERPROOFING COMPOUND		
III	SUB-SECTION	PLASTICIZERS AND WATER REDUCING AGENT		
IV	SUB-SECTION	GROUTS		
V	SUB-SECTION	BONDING AGENTS		
VI	SUB-SECTION	SEALANTS		
VII	SUB-SECTION	PROTECTIVE WATERPROOF COATINGS / CEMENT BASED COATINGS :		
VIII	SUB-SECTION	ANTI CORROSIVE AGENTS		
IX.	SUB-SECTION	CURING COMPOUND & MISCELLANEOUS CHEMICALS		

SI. No	SECTION	DESCRIPTION OF THE ITEM	FROM	TO
I.		GLASS MATERIALS	62	63
I	SUB-SECTION	PLAIN GLASS PANES		
II	SUB-SECTION	PIN HEADED GLASS PANES		
J.		PAINTS & POLISHES	63	66
I	SUB-SECTION	PRIMERS, FILLERS & BASES		
II	SUB-SECTION	DISTEMPER PAINTS		
III	SUB-SECTION	EMULSION BASED PAINTS		
IV	SUB-SECTION	SOLVENT BASED PAINTS		
V	SUB-SECTION	OIL BASED ENAMEL PAINTS		
VI	SUB-SECTION	TEXTURE PAINTS		
VII	SUB-SECTION	SPECIAL PAINTS		
K.		PARTICLE BOARDS	66	71
I	SUB-SECTION	MELAMINE FACED PLAIN PARTICLE BOARD		
II	SUB-SECTION	INSULATING PARTICLE BOARDS		
III	SUB-SECTION	MEDIUM DENSITY FIBRE BOARDS		
IV	SUB-SECTION	CEMENT BONDED PARTICLE BOARDS		
L.		PLYWOODS, LAMINATES & VENEERS	71	73
I	SUB-SECTION	MOISTURE RESISTANT (MR) GRADE		
II	SUB-SECTION	BOILING WATER RESISTANT (BWR) GRADE		
III	SUB-SECTION	VENEERED DECORATIVE PLYWOOD		
IV	SUB-SECTION	LAMINATES		
V	SUB-SECTION	COMMERCIAL VENEERS		
M.		CEILINGS, WALL PARTITIONS & WALL LININGS	73	92
I	SUB-SECTION	FALSE CEILINGs - TILES/ SHEETS		
II	SUB-SECTION	FALSE CEILINGs - SECTIONS & ACCESSORIES		
III	SUB-SECTION	WALL LINING & PANELLING		
IV	SUB-SECTION	PARTITIONS		

SI. No	SECTION	DESCRIPTION OF THE ITEM	FROM	TO
N.		DOORS, SHUTTERS & FRAMES	93	124
I	SUB-SECTION	DOOR FRAMES		
II	SUB-SECTION	DOOR SHUTTERS WITHOUT FRAMES		
III	SUB-SECTION	DOORS WITH SHUTTERS & FRAMES		
IV	SUB-SECTION	CUP-BOARD DOORS		
P.		WINDOWS	124	148
I	SUB-SECTION	OPENABLE WINDOWS		
II	SUB-SECTION	SLIDING WINDOWS		
III	SUB-SECTION	VENTILLATORS		
Q.		STRUCTURAL GLAZING & CURTAIN WALLING	149	151
I	SUB-SECTION	FIXED GLAZING		
II	SUB-SECTION	STRUCTURAL GLAZING		
III	SUB-SECTION	CURTAIN WALLING		
S.	SECTION	DISMANTLING	151	152
T.	SECTION	READY MIX CONCRETE	152	152
U.	SECTION	EXPANSION JOINT FILLERS	152	153
V.	SECTION	LABOUR CHARGES	153	158
W.	SECTION	MISCELLANEOUS ITEMS	158	166
X.	SECTION	MACHINERY & OTHER HIRE CHARGES	166	168
Y.	SECTION	POST TENSIONING WORKS	168	168
Z	SECTION	EXPANSION JOINTS	168	170
ZA	SECTION	ENERGY EFFICIENT ITEMS	170	175
AB	SECTION	PEB's	175	175
		CENTERING AND SCAFFOLDING CHARGES	177	180
		NOTE	181	181
		LIST OF RECOMMENDED BRANDS/ MANUFACTURERS	182	184
		WATER SUPPLY AND SANITARY ITEMS	185	235

BUILDINGS SoR: 2022-23

(Civil, Water Supply & Sanitary, Electrical and Electro-Mechanical items)

PREAMBLE

1.0 INTRODUCTION

The Government have issued orders vide. G.O.Rt.No.95, T, R&B (R.1Buildings) Dept., dt:18.01.2015 constituting a Committee comprising of Chief Engineers of departments in-charge of execution of building works for finalization of Schedule of Rates for Buildings (Civil, Water Supply & Sanitary and Electrical and Electro-Mechanical items). The meeting of the above “SoR Committee of Chief Engineers for Buildings (Civil, Water Supply & Sanitary, Electrical and Electro-Mechanical items)” was convened several times during the year 2022 and finalized on 15.06.2022 with an objective to finalize and release the Buildings- SoR: 2022-23.

For Labour Rates the labour commissioner of AP recommendations are taken into account. BoCE labour rates are referred. For different sections of materials, market rates are obtained utilizing the services of member departments.

Meetings were conducted with the members of Builders Association of India (Andhra Pradesh) to receive the feedback, certain market trends and data on need for updating the SoR rates for the year 2022-23

The market and price indices were found to be volatile and fluctuating. The base prices of the materials impacted by the variation due to HSD/ Petrol is considered. Similarly, the impact of international price variations due to recent developments were also considered.

The rates and procedures followed in Telangana SoR 2021-22 and the present rates taken in the guidance .

2.0 APPLICABILITY OF COMMON SoR – 2022-23

The rates of labour, common materials & work items, Public Health items, conveyance rates of materials & hire charges approved and published in Common SoR-2022-23 remain applicable. The specifications, stipulations & all other conditions of Common-SoR other than those specified in this context remain applicable.

3.0 QUOTATION ITEMS

Requests for inclusion of new items have been examined with respect to the market trends, technological changes, need for use and general practices. For those items where specific quotations from the manufacturers, suppliers or vendors are received, lowest quoted rates are considered and specifications were included in Buildings SoR: 2022-23. Further, list of new brands that are proposed for inclusion in Buildings SoR:2022-23 is appended

4.0 OVERHEADS & CONTRACTORS PROFIT

- a. The provision of ‘Over Heads and Contractor’s Profit @ 13.615% shall be allowed in all the data items of the estimates and rates of the finished items in building works where ‘Contractors All Risk’ policy is dispensed with.
- b. It is reiterated that the provision of ‘Over Heads and Contractor’s Profit’ is applicable to Building works since the advent of the AP. Revised standard data-2009, which is approved by the Government in G.O.Ms.No.49 I&CAD (PW-Reforms) Dept., dated: 02-03-2009 and this component shall be operative on all the data items of the estimates and rates of the finished items published in **Buildings SoR for all original works and Renovation works subject** to the fulfillment of the conditions given below:

- i. Site accommodation, setting up plant, access road, water supply, electricity and general site arrangements.
- ii. Office furniture, equipment and communications.
- iii. Expenditure on:
 - a) Corporate office of contractor.
 - b) Technical agents for site supervision. (Reimbursement to the technical agents provision is dispensed with where 'over heads and contractor's profit' provision is included in the data rates)
 - c) Documentation and "**as built**" drawings.
 - d) Mobilization/ de-mobilization of resources.
 - e) Labour camps with minimum amenities and transportation to worksites.
 - f) Light vehicles for site supervision including administrative and managerial requirements.
 - g) Laboratory equipment and quality control including field and laboratory testing. (**For all the works costing more than Rs.2 Crores contractors have to establish Quality Control laboratory**)
 - h) Minor T & P and survey instruments and setting outworks, including verification of line, dimensions, etc.
 - i) Watch and ward.
 - j) Traffic management/ Safety management during construction.
 - k) Expenditure on safeguarding environment.
- iv. Sundries.
- v. Financing Expenditure.
- vi. Sales/ Turn over tax is replaced with GST wef 01.07.2017. The rates arrived in this SoR are only basic rates which are exclusive of all taxes. However, as per the suggestion of BoCE, the provision towards Works Contract Tax as per applicable GST rates shall be added in the estimates.
- vii. Work Insurance/ compensation - Works insurance is dispensed with vide G.O. Ms. No: 61 Irrigation & CAD (PW: Reforms) Department Dt. 25-06-2013. Further, It is decided not to insist upon insuring all the building works as provision for this component is already deleted from the 'Overheads & Contractor's Profit' in building works.

5.0 OTHER GUIDELINES

1. Municipal Area Allowance, Agency or Tribal area allowance or any such allowance on the labour components of civil, water supply & sanitary items, Electrical and Electro-Mechanical items of building works shall be allowed wherever applicable as per the guidelines and preamble of Common SoR: 2022-23. For the building work estimates taken up in the notified Area Development Authorities constituted by the Government, the Area Allowance on the labour components of civil, water supply & sanitary items, Electrical and Electro-Mechanical items of building works may be allowed on specific recommendation from such Area Development Authorities.
2. For the structures where the Standard and High Strength Concretes vide IS: 456- 2000 is required, mix design shall be carried out and rates may be arrived as per the rate analysis appended in the A.P. Revised Standard Data-2009.
3. Certain items in the SoR are deleted due to change in the specification/ non- availability in the market etc.,
4. The Electrical and Electro-Mechanical items and corresponding rates, as proposed by the Chief Engineer (R&B) Electrical have been considered in the Buildings SoR-2022-23.
5. The specifications of the aggregates for sizes and gradation and its adoption shall be as per IS 383-1970 and IS 2386 (Part 1 to Part 8).
6. No allowance towards 'Labour Importation & Labour Amenities' shall be added to the data as they are included in the provision of 'Over heads and contractor's profit'.
7. For all the materials, the basic rates given in the Buildings SoR are 'landing prices' at the site which are exclusive of all taxes, except where mentioned specifically.
8. For Water Supply Sanitary items, 5% on material items and 7% on labour items is

enhanced over SoR 2021-22 rates.

9. UPVC pipes were included in \water supply and sanitary items.
10. PEB structures were incorporated in AB section
11. The estimate preparing and sanctioning authorities are requested to invariably enclose (i) quarry maps showing the shortest distance from the work site to the quarry from where materials are proposed to be carted and (ii) certificates of quality, quantity, and availability of materials in the identified quarries, for all those lead items of estimate at the time of technical sanctions.
12. For the materials where the basic rates are mentioned as 'quarry rates' in the Buildings SoR lead charges are to be added for the lead distances from the approved quarries as applicable. Wherever the term "carriage" or "conveyance" is used in schedule item, it shall be taken to include actual leads, lifts, loading, unloading and stacking to the satisfaction of the technical sanctioning authority while making the price-adjustments.
13. The conveyance charges per unit quantity of the materials are worked out, and provided in the schedule of rates reckoning
 - i) for head loads with increment of 50 m upto 150m
 - ii) for mechanical conveyance with increment of 1 KM.
14. For building works taken up in the hill areas where the materials are conveyed on ghat roads, the lead distance may be taken as 2.0 times of the existing length of the road for the purpose of leads only for conveyance of materials based on the certificate for the Ghat Road given by the Superintending Engineer concerned.
15. Loading and unloading charges are not payable for conveyance by head load.
16. Loading and Unloading charges are not payable for conveyance by mechanical means, for disposal of excavated material unless specified.
17. The rates for unloading of materials except earth, sand, gravel, coarse aggregate, rubble, size stone and cut stone, are inclusive of stacking wherever applicable.
18. The input rate for the water charges taken in Common Standard Schedule of Rates for the basic data is for the sources at site, any water lead as applicable may be allowed as per the conveyance charges.
19. Unless otherwise specified, all material rates shall be exclusive of all taxes, duties, levies, royalty/seigniorage.
20. Any errors, omissions, corrections or suggestions shall be brought to the notice of the 'COMMITTEE OF THE CHIEF ENGINEERS (Buildings SoR)' for corrective action.
21. For any new items to be included in the 'Schedule of Rates', recommendations with specific remarks of the respective departments should reach the 'Committee of Chief Engineers' well in advance.
22. The CWC (Ministry of Irrigation) has recommended that "where standard or schedule of rates are revised or where is necessary to do so, the primary guiding principle should be escalation in labour and material cost and not on trend of rates quoted by the contractors". The 'Committee of Chief engineers' (Buildings SoR) have considered the practicality and adoptability of the 'Buildings-SoR' in construction of the building projects in finalizing the 'Buildings-SoR'.
23. Wherever feasible, more emphasis is given to the technical specifications for the SoR items by removing the brand names of the manufacturers from the specification.
24. The technical specifications and the rates of the corresponding items given in the SoR are for the guidance only. The estimate preparing authorities are requested to obtain literature for usage / application of construction / water proofing materials, epoxies etc, from the manufacturers or authorized suppliers in the contract documents as per the requirement.
25. Steel Centering & Scaffolding charges for Shear walls, RCC walls and Water tank walls are incorporated in this Buildings SoR 2022-23. The rates given in the SoR are for both faces of the respective members. The measurement of centering charges shall be in 'sqm' for one face only and the centering charges given are for two faces of centering.
26. Double Grooved and Precoated extruded Mineral (Cement) roof tiles are introduced.
27. Clarity on nomenclature of Floors for data calculations is given as below

For	To Read
GF	F1

FF	F2
SF	F3
TF	F4

28. A separate section for Post Tensioning works is introduced.

6.0 CONCLUSION

1. The Committee of Chief Engineers on Buildings-SoR: 2022-23 (Civil & Electrical) has met in the chambers of Chief Engineer (R&B) Buildings & RSW, several times during the year 2022 and approved the Buildings SoR:2022-23, without any tax elements based on the representations received from various Engineering Departments. GST shall be provided as per GST Act in Part-B of the estimate during preparation of estimates.
2. SSR Rates for Civil, Sanitary & water supply and Electrical Items are purely for the guidance of the officers in preparation of estimates vide Para 113 of APPWD code. Authority who prepares the estimate is however responsible for proper rates as envisaged in Para 45 of APPWD code.
3. The rates published in the Buildings SoR are ceiling rates and the estimate preparing authorities are responsible for the correctness and reasonableness of the Technical Specifications and Rates adopted in the estimates.

BUILDING ITEMS

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
A.SECTION			BRICKS & BUILDING BLOCKS (ex-quarry price - excluding cost of conveyance, loading & unloading)		
I. SUB- SECTION			ORDINARY CLAY BRICKS		
1	MAT-00721	BMT-A.01	Common burnt clay bricks of class as per Table-1 of IS:1077-1992 Non-Modular of traditional size 23 x 11 x 7 cm	1000 Nos	7500
2	MAT-00748	BMT-A.02	Common burnt clay bricks of class as per Table-1 of IS:1077-1992 Modular of traditional size 19 x 9 x 9 cm	1000 Nos	8400
		II. SUB-SECTION	FLY-ASH CEMENT/LIME SOLID BLOCKS (ex-quarry price - excluding cost of conveyance, loading & unloading)		
3	MAT-00749	BMT-A.03	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 - 290 x 225 x 140 mm	Each	30
4	MAT-00750	BMT-A.04	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 - 290 x 200 x 140 mm	Each	27
5	MAT-00751	BMT-A.05	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 - 290 x 150 x 140 mm	Each	22
6	MAT-00752	BMT-A.06	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 - 290 x 112/100 x 140 mm	Each	18
7	MAT-00753	BMT-A.07	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 - 225 x 100 x 60 mm	Each	10
8	MAT-00754	BMT-A.08	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 - 145 x 225 x 140 mm	Each	18
9	MAT-00755	BMT-A.09	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 - 145 x 200 x 140 mm	Each	14
10	MAT-00756	BMT-A.10	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 -290 x 225 x 140 mm	Each	30

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
11	MAT-00757	BMT-A.11	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 -290 x 200 x 140 mm	Each	23
12	MAT-00758	BMT-A.12	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 - Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 -290 x 150 x 140 mm	Each	23
13	MAT-00759	BMT-A.13	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 -290 x 112/100 x 140 mm	Each	14
14	MAT-00760	BMT-A.14	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 -225 x 100 x 60 mm	Each	7
15	MAT-00761	BMT-A.15	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 -145 x 225 x 140 mm	Each	13
16	MAT-00762	BMT-A.16	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 -145 x 200 x 140 mm	Each	12
17	MAT-00763	BMT-A.17	Supply of well burnt cinder aggregates as per IS: 2686-1977	1 Cum	650
III. SUB- SECTION			AUTOCLAVED CONCRETE BLOCKS (landing cost - including cost of conveyance, loading & unloading)		
			Supply of Aerated (Cellular) Autoclaved Concrete Blocks conforming to IS:2185 (Part-3) - 1984 and IS:6441-1972 of Compressive strength 3 N/mm²		
18	MAT-00764	BMT-A.18	600 x 200 x 100 mm	Each	53
19	MAT-00765	BMT-A.19	600 x 200 x 150 mm	Each	75
20	MAT-00766	BMT-A.20	600 x 200 x 200 mm	Each	105
21	MAT-00767	BMT-A.21	600 x 200 x 230 mm	Each	115
22(a)	MAT-05337	BMT-A.22	Supply of Cement based, Polymer modified Pre-mixed dry jointing mortar for laying AAC Blocks – Masonry Glue 110 or equivalent	1Kg	17
22(b)		BMT-A.23	Supply of Cement based, Polymer	1Kg	13

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			modified Pre-mixed bonding coat for plastering on smooth concrete/masonry surfaces.		
22(c)		BMT-A.24	Supply of Cement based, Polymer modified Pre-mixed dry plastering mortar for plastering walls, columns, ceilings.	1Kg	10
22(d)		BMT-A.25	Supply of Cement based, Polymer modified Pre-mixed dry mortar for fixing tiles on walls & floors	1Kg	15
B.SECTION			NATURAL FLOORING STONES (ex-quarry price – excluding cost of conveyance, loading & unloading)		
I.SUB- SECTION			LOCALLY AVAILABLE FLOORINGSTONES		
23	MAT-00768	BMT-B.01	Kadapa slab 40 mm thick and size not less than 0.457 M x 0.457 M	1 Sqm	125
24	MAT-00769	BMT-B.02	Kadapa slab 50 mm thick and size not less than 0.457 M x 0.457 M	1 Sqm	145
25	MAT-00770	BMT-B.03	Shahabad /Tandur Rough Stone slabs of minimum of 25 mm thick	10 Sqm	1150
26	MAT-00771	BMT-B.04	Shahabad / Tandur Rough Stone slabs of minimum 40 mm thick	10 Sqm	1500
27	MAT-00772	BMT-B.05	Polished Shahabad/ Tandur stone slabs of 15 to 18 mm thick	10 Sqm	1900
28	MAT-00773	BMT-B.06	Polished black Kadapa slabs minimum of 15 mm thick (0.457x0.457M)	10 Sqm	1750
29	MAT-00774	BMT-B.07	Polished Bethamcherla pure (marble type) white stone minimum 25 mm thick (0.254Mx0.254M)	10 Sqm	4600
30	MAT-00775	BMT-B.08	Polished Bethamcherla coloured stone minimum 25 mm thick (0.254M x0.254M)	10 Sqm	3200
31	MAT-00784	BMT-B.17	Polished black Kadapa slabs of all sizes between 25 - 30 mm thickness	10 Sqm	1850
II.SUB- SECTION			NATURAL FLOORING STONES –MARBLE		
32	MAT-00779	BMT-B.12	Polished Marble slabs of Dongari/ Adanga/ Marodh/ Rajgangpur etc., variety of thickness between 16 mm to 20 mm of sizes from 600 mm to 900 mm	1 sqm	780
33	MAT-00780	BMT-B.13	Polished Marble slabs of Dongari/ Adanga/ Marodh/ Rajgangpur etc., variety of thickness between 16 mm to 20 mm of sizes up to 600 mm	1 sqm	640
34	MAT-00781	BMT-B.14	Polished Marble slabs of any variety and	1 sqm	1070

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			gang saw cut (Such as Dongari/ Adanga/ Marodh/ Rajgangpur etc) 16 mm to 20 mm (average) thick (0.610 M width of any length)		
35	MAT-00782	BMT-B.15	Polished Marble Tiles of 8 - 10 mm thickness of all sizes and varieties	1 sqm	510
III.SUB- SECTION			NATURAL FLOORING STONES –GRANITE		
36	MAT-00776	BMT-B.09	High Polished Granite 16 to 18 mm thick up to 2.43 M other than black/ premium colours	1 sqm	2800
37	MAT-00777	BMT-B.10	High Polished Granite 16 to 18 mm thick up to 2.43 M other than black and regular colours	1 sqm	2500
38	MAT-00778	BMT-B.11	High Polished Granite 16 to 18 mm thick up to 2.43 M black	1 sqm	2100
39	MAT-00783	BMT-B.16	Granite stone tiles 8 mm thick (mirror polished of all shades)	1 sqm	1100
C.SECTION			WALL & FLOOR TILES (Landing cost – including loading, cost of conveyance, unloading)		
I.SUB- SECTION			NON-PORCELAIN CERAMIC FLOOR TILES		
40	MAT-00785	BMT-C.01	Supply of Non-skid red or white full body Ceramic floor tiles of Size 300 mm x 300 mm and thickness between 7-8 mm and 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 sqm	370
41	MAT-00786	BMT-C.02	Supply of Non-skid red or white full body Ceramic floor tiles of Size 450 mm x 450 mm and thickness between 7-8 mm and 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 sqm	375
42	MAT-00787	BMT-C.03	Supply of Non-skid red or white full body Ceramic floor tiles of Size 600 mm x 600 mm and thickness between 8-10 mm and 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 sqm	510
43	MAT-00788	BMT-C.04	Supply of Non-skid red or white full body Ceramic floor tiles of Scratch free-stain free and scratch free-nano finish of Size 600 mm x 600 mm and thickness	1 sqm	520

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			between 8-10 mm and 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs		
II. SUB- SECTION			PORCELAIN VITRIFIED FLOOR TILES		
44	MAT-00789	BMT-C.05	ITEM DELETED		
45	MAT-00790	BMT-C.06	Supply of soluble salt porcelain vitrified tiles screen printed and polished of size 600 x 600 mm and thickness between 8-10 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs.	1 sqm	425
46	MAT-00791	BMT-C.07	Supply of Nano polished /stain free soluble salt porcelain vitrified tiles screen printed of size 600 x 600 mm and thickness between 8-10 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 sqm	450
47	MAT-00792	BMT-C.08	ITEM DELETED		
			Supply of Double charged / multi charged stain free full body porcelain vitrified tiles with double layer pigment of 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs		
48	MAT-00793	BMT-C.09	Supply of Double charged / multi charged stain free full body porcelain vitrified tiles with double layer pigment of Size 600 x 600 mm and thickness between 8-10 mm and 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	612
49	MAT-00794	BMT-C.10	Supply of Double charged / multi charged stain free full body porcelain vitrified tiles with double layer pigment of Size 800 x 800 mm and thickness between 9-11 mm and 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	758
50	MAT-00795	BMT-C.11	ITEM DELETED		
51	MAT-00796	BMT-C.12	Supply of digital / polished glazed full		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			body porcelain vitrified tiles with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and Size 800 x 800 mm and thickness between 9-11 mm of 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 sqm	750
52	MAT-00797	BMT-C.13	Supply of digital / polished glazed full body porcelain vitrified tiles with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and Size 900 x 900 mm and thickness between 9-11 mm of 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 sqm	924
52(a)		BMT-C.13(a)	Supply of glazed vitrified tiles with matt finish of size 600 x600mm and thickness between 9-10 mm 1st quality confirming to IS: 13711,IS: 13712,IS: 13630 (Parts 1 to 15) of any colour and finish in all shades and designs .	1 sqm	818
53 to 59		BMT-C.14 to BMT-C.20	ITEMS DELETED		
III.SUB- SECTION			CERAMIC WALL TILES		
60	MAT-00805	BMT-C.21	Supply of glazed red or white full body ceramic wall tiles of Size 200 x 300 mm / 245 mm x 325 mm and thickness 6 mm and 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 sqm	330
61	MAT-00806	BMT-C.22	Supply of glazed red or white full body ceramic wall tiles of Size 300 x 450 mm / 320 mm x 400 mm and thickness 6 mm and 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 sqm	410
62	MAT-00807	BMT-C.23	Supply of glazed red or white full body ceramic wall tiles of Size 300 x 600 mm and thickness between 6-8 mm and 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 sqm	550

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
IV.SUB-SECTION			PORCELAIN WALL TILES		
63	MAT-00808	BMT-C.24	Supply of glazed full body porcelain wall tiles of size 300 x 600 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 sqm	580
64	MAT-00809	BMT-C.25	Supply of digital / polished glazed full body porcelain wall tiles of size 300 x 600 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 sqm	589
65	MAT-00810	BMT-C.26	Supply of digital / polished glazed full body porcelain highlighter wall tiles of size 300 x 600 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 sqm	595
66	MAT-00811	BMT-C.27	Supply of screen printed glazed full body porcelain wall tiles of size 300 x 600 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 sqm	625
67	MAT-00812	BMT-C.28	Supply of glazed full body porcelain wall tiles of size 400 x 600 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 sqm	740
68 to 70		BMT-C.29 to BMT-C.31	ITEMS DELETED		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
71	MAT-00816	BMT-C.32	Providing and fixing wall dado with epoxy emulsion grout/ synthetic/ resin based adhesive in specified thick and pointing with specified colour epoxy grout excluding cost of tiles	1 sqm	315
72	MAT-00817	BMT-C.33	Providing and fixing wall dado with cement based adhesive in specified thick and pointing with specified colour epoxy grout excluding cost of tiles	1 sqm	161
73	MAT-00818	BMT-C.34	Providing and fixing flooring with full depth jointing and pointing to the Vitrified/ Ceramic Tile flooring in specified thick for tiles of any sizes with epoxy emulsion grout/ synthetic / resin adhesive in width of 3-5 mm with Nylon spacers excluding cost of tiles.	1 sqm	310
74	MAT-00819	BMT-C.35	Providing and fixing flooring with full depth jointing and pointing to the Vitrified/ Ceramic Tile flooring in specified thick for tiles of any sizes with cement based adhesive in width of 3-5 mm with Nylon spacers excluding cost of tiles .	1 sqm	162
75	MAT-00820	BMT-C.36	Providing and fixing flooring with full depth jointing and pointing to the Marble/ Granite flooring for any sizes with epoxy emulsion grout/ synthetic / resin based adhesive in width of 3-5 mm excluding cost of tiles.	1 sqm	591
76	MAT-00821	BMT-C.37	Providing and fixing flooring with full depth jointing and pointing to the Marble/ Granite flooring for any sizes with cement based adhesive in width of 3-5 mm excluding cost of tiles.	1 sqm	310
77		BMT-C.50	Breeze blocks of size 8"x8" and thickness 60mm	Each	39
78		BMT-C.51	Ventilations of size 12"x18" and thickness 40mm	Each	90
79		BMT-C.52	Ventilations of size 12"x24" and thickness 40mm	Each	120
V.SUB- SECTION			GLASS MOSAIC TILES		
79 to 81		BMT-C.38 to BMT-C.40	ITEMS DELETED		
VI.SUB- SECTION			WALL CLADDING TILES		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
82	MAT-00825	BMT-C.41	Supply of glazed full body porcelain tiles for external cladding purposes of any size and thickness between 6-10 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs.	1 sqm	550
83	MAT-00826	BMT-C.42	Supply of glazed red or white full body ceramic tiles for external cladding purposes of any size and thickness between 5-7 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 sqm	435
84	MAT-00827	BMT-C.43	Supply of glazed red or white full body ceramic tiles for external cladding purposes of any size and thickness between 10-12 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 sqm	445
85	MAT-00828	BMT-C.44	ITEM DELETED		
86	MAT-08731	BMT-C.45	Brick tiles of size 230mm x 75 mm and 12mm thick	1 sqm	432
87	MAT-08732	BMT-C.46	Natural stone (Bethamcherla or equivalent) of size not exceeding 300mm x300mm and 18-20mm thick	1 sqm	535
88	MAT-08733	BMT-C.47	Terracotta tiles size 125mm x 200mm and 12-15mm thick	1 sqm	400
VII SUBSECTION			EPOXY FLOORING, COVING		
89	MAT-08734	BMT-C.48	Supply and application of epoxy flooring of light green or light blue colour seamless joint free finish with 3mm thickness and anti slip & water washable chemical resistance durable and non particle shedding with attractive finishing	1 sqm	1862
90	MAT-08735	BMT-C.49	Supply and application of epoxy coving 50mmx50mm width at the corners of the walls	1 RM	500
VIIISUB-SECTION			ROOF TILES		
91		BMT-C.53	Supply and installation of Double grooved and precoated extruded mineral (cement) roof tiles of size 420 mmx330 mm of corrugated profile tiles with variable overlapping for coverage of 1-1.2 per tile with European standards BEEN 490:2004		
91 (a)		BMT-C.53(a)	Monotone colour ; Orange, red	1 Sqm	1122

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
91(b)		BMT-C.53 (b)	Dual colours : Antique Red, Grey, Brown etc	1 Sqm	1240
91(c)		BMT-C.53 (c)	Premium Colors : Antique green and blue	1 Sqm	1544
92		BMT-C.54	Supply and installation of precoated extruded mineral (cement) ridge tiles and other fittings of same brand		
92. (a)		BMT-C.54 (a)	Monotone colour ; Orange, red	1 Sqm	490
92. (b)		BMT-C.54(b)	Dual colours : Antique Red, Grey, Brown etc	1 Sqm	553
92. (c)		BMT-C.54 (c)	Premium Colors : Antique green and blue	1 Sqm	642
93		BMT-C.55	Supply of Imported Heat reflective cum Water Proof Sheet Veltiun RadenSheild of thickness 550 micron+/-10 microns with Nail Sealant for complete water tightness, Poly proplene Spun bound layer for better strength and Aluminium Foil for Heat Reflection of size per roll is 1.25X50m for coverage of 62.5 Sqmtrs with required tape for joints and overlapping.	1 Sqm	655
94		BMT-C.56	Supply of Imported UV Resistant & Flame Resistant Stretchable Corrugated surface with Special adhesive for avoiding Cement Motor under Ridges size of Roll is 5MX25Cms	1 Sqm	950
95		BMT-C.57	Supply of High Quality Aluminium Bent valleys which can easy foldable as per site condition to prevent back flow of rain Water Back Flow and to avoid leakages at Valley Area of size 1.2MX36Cm of any Reputed make	1 sqm	835
D.SECTION			PAVING & INTERLOCKING TILES		
I.SUB- SECTION			TERRAZO FLOOR TILES (PLAIN & CHEQURED) (landing cost - including cost of conveyance, loading & unloading)		
96	MAT-00829	BMT-D.01	Supplying precast terrazzo chequered tiles conforming to IS: 13801 using marble aggregates of size 10 mm , sand, marble powder, white cement pigments etc., with terrazzo topping not less than 6 mm of tiles overall size not less than 20 mm thick of any coloured shades.	1 sqm	315
97	MAT-00830	BMT-D.02	Supplying precast terrazzo tiles conforming to IS: 13801 using marble aggregates of size 10 mm , sand, marble powder, white cement pigments etc., with terrazzo topping not less than 6 mm of tiles overall size not less than 20 mm thick white shades.	1 sqm	330

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
98	MAT-00831	BMT-D.03	Supplying precast terrazzo plain tiles conforming to IS: 13801 using marble aggregates of size 10 mm , sand, marble powder, white cement pigments etc., with terrazzo topping not less than 6 mm of tiles overall size not less than 20 mm thick any coloured shades.	1 sqm	340
II.SUB- SECTION			CEMENT CONCRETE FLOOR TILES (PLAIN & CHEQUERED)		
99	MAT-00832	BMT-D.04	Supplying plain Cement Concrete general purpose tiles conforming to IS: 13801 using aggregates, cement, pigments of size 300 x 300 mm and thickness 20 mm of any shades.	1 Sqm	255
100	MAT-00833	BMT-D.05	Supplying Chequered Cement Concrete heavy duty tiles conforming to IS: 13801 using aggregates, cement, pigments of size 300 x 300 mm and thickness 20 mm of any shades.	1 Sqm	300
101	MAT-00834	BMT-D.06	Supplying plain Cement Concrete general purpose tiles conforming to IS: 13801 using aggregates, cement, pigments of size 300 x 300 mm and thickness 25 mm of any shades.	1 Sqm	310
102	MAT-00835	BMT-D.07	Supplying Chequered Cement Concrete heavy duty tiles conforming to IS: 13801 using aggregates, cement, pigments of size 300 x 300 mm and thickness 25 mm of any shades.	1 Sqm	325
103	MAT-00836	BMT-D.08	Supplying plain Cement Concrete general purpose tiles conforming to IS: 13801 using aggregates, cement, pigments of size 400 x 400 mm and thickness 25 mm of any shades.	1 Sqm	330
104	MAT-00837	BMT-D.09	Supplying Chequered Cement Concrete heavy duty tiles conforming to IS: 13801 using aggregates, cement, pigments of size 400 x 400 mm and thickness 25 mm of any shades.	1 Sqm	350
105	MAT-00838	BMT-D.10	Supply of high strength Cement Concrete plain Step tile with edge half rounded and grooved conforming to IS: 13801 using aggregates, cement, pigments of regular colour, design and of 25 mm thickness	1 Sqm	500
106	MAT-00839	BMT-D.11	Supply of high strength Cement Concrete terrazzo/pre-polished/chequered Step tiles with edge rounded and grooved conforming to IS: 13801 using aggregates, cement, pigments of any premium colour, design and of 25 mm thickness	1 Sqm	525
III.SUB- SECTION			PRE-CAST CONCRETE BLOCKS FORPAVING		
107	MAT-00840	BMT-	Supply of precast concrete blocks for paving of M-30 grade and thickness not less than 50 mm for Non-traffic areas	1	350

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
		D.12	conforming to IS 15658:2006 in all shapes and designs as per the manufacturer's specification	Sqm	
108	MAT-00841	BMT-D.13	Supply of precast concrete blocks for paving of M-35 grade and thickness not less than 60 mm for Light traffic areas conforming to IS 15658:2006 in all shapes and designs as per the manufacturer's specification	1 Sqm	390
109	MAT-00842	BMT-D.14	Supply of precast concrete blocks for paving of M-40 grade and thickness not less than 80 mm for Medium traffic areas conforming to IS 15658:2006 in all shapes and designs as per the manufacturer's specification	1 Sqm	550
110	MAT-00843	BMT-D.15	Supply of precast concrete blocks for paving of M-50 grade and thickness not less than 100 mm for Heavy traffic areas conforming to IS 15658:2006 in all shapes and designs as per the manufacturer's specification	1 Sqm	610
111	MAT-00844	BMT-D.16	Supply of precast concrete blocks for paving of M-55 grade and thickness not less than 120 mm for very heavy traffic areas conforming to IS 15658:2006 in all shapes and designs as per the manufacturer's specification	1 Sqm	700
112	LAB-01180	BMT-D.17	Labour charges for laying & fixing of precast concrete blocks for paving of all grades, any thickness, all sizes & shapes including all labour charges for loading & unloading, laying to desired lines and levels complete excluding cost of cement, sand, water, electricity etc	1 Sqm	220
113	MAT-08736	BMT-D.21	Supply of Glass Fibre Reinforced Concrete Tiles of size 300 x 300 mm /400 x 400 mm and thickness of not less than 25mm heavy duty conforming to IS 13801 in all shapes and designs as per the manufacturer's specification	1 Sqm	426
114	MAT-08737	BMT-D.22	Supply of Glass Fibre Reinforced Concrete Pavers of size 225 x 175 mm and thickness of not less than 60mm heavy duty conforming to IS 15658:2006 in all shapes and designs as per the manufacturer's specification	1 Sqm	577
IV.SUB-SECTION			VINYL FLOORING		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
115	MAT-05338	BMT-D.18	Vinyl Flooring Sheets/ tiles having a nominal total thickness of 2 mm with a wearing surface impregnated polyurethane homogeneous mixture of PVC, Plasticizers, Urethane, color pigments with wearing resistance and Fire Resistance as per standards	1 Sqm	900
116	MAT-05339	BMT-D.19	Vinyl Composition Floor Tiles of size 305 mm x 305 mm having an overall thickness of 2.0mm with a wearing surface impregnated polyurethane homogeneous mixture of PVC, Plasticizers, Urethane, color pigments with wearing resistance and Fire Resistance as per standards	1 Sqm	588
117	MAT-05340	BMT-D.20	Vinyl Flooring Sheets or tiles having a nominal total thickness of 1.5 mm with a wearing surface impregnated polyurethane homogeneous mixture of PVC, Plasticizers, Urethane, color pigments with wearing resistance and Fire Resistance as per standards	1 Sqm	425
118		BMT-D.21	Grass pavers of size 10"x10" and thickness 60mm	Each	50
119		BMT-D.22	Grass pavers of size 12"x12" and thickness 60mm	Each	72
120		BMT-D.23	Roof cool tiles of size 10"x10" and thickness 15mm	Each	30
E.SECTION			TIMBER & ROOFING MATERIALS <i>(Landing cost – including cost of conveyance, loading & unloading) Note: Before proposing the Teak Wood/Items, the estimating authorities shall obtain prior approval from the competent authority</i>		
I.SUB- SECTION			MEDIUM TEAK WOOD		
121	MAT-00846	BMT-E.01	Medium Teak Wood scantlings: up to 2.0 M	1 cum	81950
122	MAT-00847	BMT-E.02	Medium Teak Wood scantlings: 2.0 to 3.0 M	1 cum	92130
123	MAT-00848	BMT-E.03	Medium Teak Wood scantlings: above 3.0 M	1 cum	102256

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
124	MAT-00849	BMT-E.04	Medium Teak Wood Plancks: any thickness	1 cum	160920
II.SUB- SECTION			BEST TEAK WOOD		
125	MAT-00850	BMT-E.05	Best Teak Wood scantlings: up to 2.0 M	1 cum	134500
126	MAT-00851	BMT-E.06	Best Teak Wood scantlings: 2.0 to 3.0 M	1 cum	142480
127	MAT-00852	BMT-E.07	Best Teak Wood scantlings: above 3.0 M	1 cum	155000
128	MAT-00853	BMT-E.08	Best Teak Wood Plancks: any thickness	1 cum	175490
III.SUB- SECTION			BURMA TEAK WOOD		
129	MAT-00854	BMT-E.09	Burma Teak Wood scantlings: up to 2.0 M	1 cum	178200
130	MAT-00855	BMT-E.10	Burma Teak Wood scantlings: 2.0 to 3.0 M	1 cum	187900
131	MAT-00856	BMT-E.11	Burma Teak Wood scantlings: above 3.0 M	1 cum	203000
132	MAT-00857	BMT-E.12	Burma Teak Wood Plancks: any thickness	1 cum	217106
IV.SUB- SECTION			ASSAM TEAK WOOD		
133	MAT-00858	BMT-E.13	Assam Teak Wood scantlings: any length	1 cum	48900
134	MAT-00859	BMT-E.14	Assam Teak Wood Plancks: any thickness	1 cum	72750
V.SUB- SECTION			SAL/ COUNTRY WOOD		
135	MAT-00860	BMT-E.15	Sal Wood scantlings: any length	1 cum	51000
136	MAT-00861	BMT-E.16	Sal Wood Plancks: any thickness	1 cum	63950
VI.SUB- SECTION			ROOFING MATERIAL		
137	MAT-00862	BMT-E.17	A.C sheet Corrugated 6 mm thick	1 sqm	229
138	MAT-00863	BMT-E.18	A.C sheet plain 4 mm thick	1 sqm	160
139	MAT-00864	BMT-E.19	A.C sheet plain 6 mm thick	1 sqm	170
140	MAT-00865	BMT-E.20	Plain or Corrugated Galvanized iron sheets as per IS 277 (0.1 mm to 0.8 mm thickness)	1 kg	70
141	MAT-00866	BMT-E.21	Supply of UV resistant multi-wall polycarbonate sheets for roofing of any colour - 6 mm thick	1 Sqm	1225
142	MAT-00867	BMT-E.22	Aluminium universal glazing set 40 mm wide for jointing and fixing polycarbonate sheets	1 RM	120

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
143	MAT-05341	BMT-E.23	Supply of UV resistant multi -wall polycarbonate sheets for roofing of any colour -10 mm thick.	1 Sqm	1400
F.SECTION			STEEL MATERIALS (Landing cost –including loading, cost of conveyance,unloading)		
I.SUB- SECTION			MILD STEEL MATERIALS		
144	MAT-00895	BMT-F.29	Supply & fixing of Rolling shutter made of 80 x 1.25 mm machine rolled CRCA laths, interlocked together through their entire length and jointed together at the ends by end-locks, mounted on specially designed pipe shaft of 50mm dia nominal bore MS B class pipe with brackets, plates, guide channels, stoppers, bottom locking plates and arrangements for inside & outside locking with push-pull operations including cost of hood cover and springs complete, painted with one coat of approved steel primer, locks, ball bearings, all accessories etc complete for finished item of work as per special spn: 1108	1 Sqm	4025
145	MAT-00896	BMT-F.30	Supplying & fixing collapsible steel shutters with vertical, double channel of 20 x10x2 mm of 100 mm centre ,Bracers with flat iron 40x40x6 mm with 38 mm dia steel pulleys, the top, bottom and side vertical frames of the collapsible gate with 65x65mmx8mm MS Angle and middle guide rail at site height with 65mmx8mm MS flat for the pulleys to guide and fixed with locking arrangements, stoppers, handles, all accessories all fixtures and painted with one coat of approved steel primer etc., complete for finished item of work as per special spn 1105	1 Sqm	3508
146	MAT-00875	BMT-F.09	Expanded metal sheets as per IS-412-1962- Light Weight-25 mm(SWM)x75 mm (LWM)3.25 mm Wide and 1.25 mm thick	1 Sqm	161
147	MAT-00876	BMT-F.10	Expanded metal sheets as per IS-412-1962- Light Weight-20 mm(SWM)x60 mm(LWM) 2.50 mm Wide and 1.25 mm thick	1 Sqm	161

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
148	MAT-00877	BMT-F.11	Expanded metal sheets as per IS-412-1962- Light Weight-20 mm(SWM)x50 mm(LWM) 2.50 mm Wide and 1.25 mm thick	1 Sqm	161
149	MAT-00878	BMT-F.12	Expanded metal sheets as per IS-412-1962- Medium Weight-25 mm(SWM)x75 mm(LWM) 3.25 mm Wide and 1.60 mm thick	1 Sqm	224
150	MAT-00879	BMT-F.13	Expanded metal sheets as per IS-412-1962- Medium Weight-20 mm(SWM)x60 mm(LWM) 2.50 mm Wide and 1.60 mm thick	1 Sqm	224
151	MAT-00880	BMT-F.14	Expanded metal sheets as per IS-412-1962- Medium Weight-20 mm(SWM)x50 mm(LWM) 2.50 mm Wide and 1.60 mm thick	1 Sqm	224
152	MAT-00881	BMT-F.15	Expanded metal sheets as per IS-412-1962- Heavy Weight-25 mm(SWM)x75 mm(LWM) 3.25 mm Wide and 2.24 mm thick	1 Sqm	253
153	MAT-00882	BMT-F.16	Expanded metal sheets as per IS-412-1962- Heavy Weight-20 mm(SWM)x60 mm(LWM) 2.50 mm Wide and 2.24 mm thick	1 Sqm	253
154	MAT-00883	BMT-F.17	Expanded metal sheets as per IS-412-1962- Heavy Weight-20 mm(SWM)x50 mm(LWM) 2.50 mm Wide and 2.24 mm thick	1 Sqm	253
156	MAT-00894	BMT-F.28	Rabbit wire mesh (chicken mesh) of not less than 30 gauge	1 Sqm	21
157	MAT-00869	BMT-F.02	Country Nails	1 Kg	72
158	MAT-00870	BMT-F.03	Wire Nails	1 Kg	72
159	MAT-00871	BMT-F.04	Mild Steel Tubes & pipes of all diameters as per IS-1161	1 Kg	76
159	MAT-00873	BMT-F.07	Supplying Galvanized Steel Barbed wire conforming to IS 278 - 1978 : Type A - IOWA Type Designation as per standard specification	1 Kg	101
160	MAT-00874	BMT-F.08	Supplying Galvanized Steel Barbed wire conforming to IS 278 - 1978 : Type B - Glidden Type Designation as per standard specification	1 Kg	99
161	MAT-00884	BMT-F.18	Galvanized Iron fly proof wire mesh of not less than 20 gauge	1 Sqm	276
162	MAT-00886	BMT-F.20	Hot dipped Galvanised Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979: 2"x2" (50 mm x 50 mm) - 8 Gauge	1 Sqm	506

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
II.SUB- SECTION			GALVANIZED STEEL MATERIALS		
163	MAT-00887	BMT-F.21	Hot dipped Galvanised Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979: 2½"x2½" (63 mm x 63 mm) - 8 Gauge	1 Sqm	449
164	MAT-00888	BMT-F.22	Hot dipped Galvanised Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979: 3"x3" (76 mm x 76 mm) - 8 Gauge	1 Sqm	397
165	MAT-00889	BMT-F.23	Hot dipped Galvanised Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979: 4"x4" (102 mm x 102 mm) - 8 Gauge	1 Sqm	276
166	MAT-00890	BMT-F.24	Hot dipped Galvanised Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979 - PVC Coated - 2"x2" (50 mm x 50 mm) - 8 Gauge	1 Sqm	667
167	MAT-00891	BMT-F.25	Hot dipped Galvanised Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979 - PVC Coated - 2½"x2½" (63 mm x 63 mm) - 8 Gauge	1 Sqm	552
168	MAT-00892	BMT-F.26	Hot dipped Galvanised Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979 - PVC Coated - 3"x3" (76 mm x 76 mm) - 8 Gauge	1 Sqm	460
169	MAT-00893	BMT-F.27	Hot dipped Galvanised Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979 - PVC Coated - 4"x4" (102 mm x 102 mm) - 8 Gauge	1 Sqm	357
III.SUB- SECTION			STAINLESS STEEL MATERIALS		
170	MAT-00872	BMT-F.06	Stainless Steel Tubes, sections, plates, sheets & pipes of all sizes & diameters for - 304 Grade	1 Kg	414
171	MAT-00885	BMT-F.19	Stainless steel fly proof wire mesh of not less than 20 gauge	1 Sqm	564
172 to 180		BMT-F.32 A to H	ITEM DELETED		
G.SECTION			FIXTURES FOR DOORS & WINDOWS		
I.SUB- SECTION			TOWER BOLTS		
181	MAT-00906	BMT-G.01	Brass Tower Bolt-10 mm Bolt (IS:204) 100 mm Long	Each	165
182	MAT-00907	BMT-G.02	Brass Tower Bolt-10 mm Bolt (IS:204) 150 mm Long	Each	255
183	MAT-00908	BMT-G.03	Brass Tower Bolt-10 mm Bolt (IS:204) 200 mm Long	Each	350

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
184	MAT-00909	BMT-G.04	Brass Tower Bolt-10 mm Bolt (IS:204) 250 mm Long	Each	401
185	MAT-00910	BMT-G.05	Brass Tower Bolt-10 mm Bolt (IS:204) 300 mm Long	Each	495
186	MAT-00911	BMT-G.06	Aluminium Tower Bolt-10 mm Bolt (IS:204) 75 mm Long	Each	56
187	MAT-00912	BMT-G.07	Aluminium Tower Bolt-10 mm Bolt (IS:204) 100 mm Long	Each	69
188	MAT-00913	BMT-G.08	Aluminium Tower Bolt-10 mm Bolt (IS:204) 150 mm Long	Each	86.5
189	MAT-00914	BMT-G.09	Aluminium Tower Bolt-10 mm Bolt (IS:204) 200 mm Long	Each	108
190	MAT-00915	BMT-G.10	Aluminium Tower Bolt-10 mm Bolt (IS:204) 250 mm Long	Each	130
191	MAT-00916	BMT-G.11	Aluminium Tower Bolt-10 mm Bolt (IS:204) 300 mm Long	Each	152
192	MAT-00917	BMT-G.12	Aluminium Tower Bolt-10 mm Bolt (IS:204) 350 mm Long	Each	429
193	MAT-00918	BMT-G.13	Aluminium Tower Bolt-10 mm Bolt (IS:204) 450 mm Long	Each	490
194	MAT-00919	BMT-G.14	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 100 mm Long	Each	26.5
195	MAT-00920	BMT-G.15	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 150 mm Long	Each	38.5
196	MAT-00921	BMT-G.16	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 200 mm Long	Each	56
197	MAT-00922	BMT-G.17	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 250 mm Long	Each	75
198	MAT-00923	BMT-G.18	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 300 mm Long	Each	94
	New Item	BMT-G.86	Aluminium Tower bolt -10mm Bolt (IS:204)75mm Long	Each	47
	New item	BMT-G.87	Aluminium Tower bolt -10mm Bolt (IS:204) 100 mm Long	Each	52
II.SUB- SECTION			HINGES		
199	MAT-00924	BMT-G.19	Brass Butt hinges (IS:205)- 75 mm Long	Each	74
200	MAT-00925	BMT-G.20	Brass Butt hinges (IS:205)- 100 mm Long	Each	225
201	MAT-00926	BMT-G.21	Brass Butt hinges (IS:205)- 125 mm Long	Each	273
202	MAT-00927	BMT-G.22	Brass Butt hinges (IS:205)- 150 mm Long	Each	356
203	MAT-00928	BMT-G.23	Aluminium Butt hinges (IS:205)- 75 mm Long	Each	82

204	MAT-00929	BMT-G.24	Aluminium Butt hinges (IS:205)- 100 mm Long	Each	106
205	MAT-00930	BMT-G.25	Aluminium Butt hinges (IS:205)- 125 mm Long	Each	129
		BMT-G.88	GI Powder Coated Friction Stay hinges of 10" Long for windows	Each	224
		BMT-G.89	GI Powder Coated Friction Stay hinges of 10" Long for windows	Each	315
		BMT-G.90	Supplying SS 304 Grade Heavy Duty pivot Hinges for windows	Each	82
		BMT-G.91	GI Powder Coated Friction stay hinges of 10" Longfor windows	Each	224
		BMT-G.92	Continuous Piano Hinges Powder coated Mild steelas per IS-3818 : 1992 of nominal size 25 mm (B) of thickness 0.8 to 1.0 mm	Each	34
		BMT-G.93	Box hinges for cup boards	Each	44
		BMT-G.94	GI Powder Coated Friction stay hinges of 14" Long for windows	Each	315
		BMT-G.95	Stainless Steel Butt hinges (IS:12817)- 75 mm Long	Each	67
		BMT-G.96	Stainless Steel Butt hinges (IS:12817)- 100 mm Long	Each	98
		BMT-G.97	Stainless Steel Butt hinges (IS:12817)- 125 mm Long	Each	125
		BMT-G.98	Stainless Steel Butt hinges (IS:12817)- 150 mm Long	Each	156
		BMT-G.99	Supplying SS 304 Grade Heavy Duty pivot Hinges for windows	Each	82
		BMT-G.100	Labour Charges for removing and refixing with complete servicing of the MS windows	Sqm	478
		BMT-G.101	Supplying EPDM Gasket for windows panels to the PPS shutter	RM	32

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23(Rs.)
1		2	3	4	5
206	MAT-00931	BMT-G.26	Aluminium Butt hinges (IS:205)- 150 mm Long	Each	133
207	MAT-00932	BMT-G.27	MS-Powder Coated Butt hinges (IS:205)- 75 mm Long	Each	11
208	MAT-00933	BMT-G.28	MS-Powder Coated Butt hinges (IS:205)- 100 mm Long	Each	20
209	MAT-00934	BMT-G.29	MS-Powder Coated Butt hinges (IS:205)- 125 mm Long	Each	31
210	MAT-00935	BMT-G.30	MS-Powder Coated Butt hinges (IS:205)- 150 mm Long	Each	39
211		BMT-G.80	Providing and fixing stainless steel (SS-304 grade) friction hinges to the side/top hung uPVC windows, of approved quality, with necessary stainless steel screws etc. as per direction of Engineer-in-charge.		
212	MAT-05342	BMT-G.80.A	200 x 19 x 1.9 mm	Each	295
213	MAT-05343	BMT-G.80.B	250 x 19 x 1.9 mm	Each	332
214	MAT-05344	BMT-G.80.C	300 x 19 x 1.9 mm	Each	350
215	MAT-05345	BMT-G.80.D	350 x 19 x 1.9 mm	Each	485
216	MAT-05346	BMT-G.80.E	400 x 19 x 1.9 mm	Each	503
III.SUB- SECTION			DOOR HANDLES		
217	MAT-00936	BMT-G.31	Aluminium Door Handles (IS:208) 75 mm Long	Each	59
218	MAT-00937	BMT-G.32	Aluminium Door Handles (IS:208) 100 mm Long	Each	68
219	MAT-00938	BMT-G.33	Aluminium Door Handles (IS:208) 125 mm Long	Each	102
220	MAT-00939	BMT-G.34	Aluminium Door Handles (IS:208) 150mm Long	Each	114
221	MAT-00940	BMT-G.35	MS-Powder Coated Door Handles (IS:208) 125 mm Long	Each	35
222	MAT-00941	BMT-G.36	MS-Powder Coated Door Handles (IS:208) 150 mm Long	Each	49
223	MAT-00963	BMT-G.58	Brass fancy handles 150 mm	Each	328
224	MAT-00964	BMT-G.59	Brass fancy handles 200 mm	Each	451
225	MAT-00965	BMT-G.60	Brass fancy handles 250 mm	Each	800
226	MAT-00966	BMT-G.61	Brass fancy handles 300 mm	Each	1015
227	MAT-00967	BMT-G.62	Brass fancy handles 450 mm	Each	1600
228	MAT-00977	BMT-G.72	Keyless lockset for toilet doors with CP or PC knob handles (complete set)	Each	342

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			Knob handles		
229	MAT-00978	BMT-G.73	Keyless lockset for toilet doors with brass knob handles	Each	900
230	MAT-05347	BMT-G.81	Providing and fixing casement handle made of zinc alloyed (white powder coated) for uPVC casement window with necessary screws etc.complete.	Each	207
		BMT-G.102	Aluminium Door Handles (IS:208) 75 mm Long	Each	47
		BMT-G.103	Aluminium Door Handles (IS:208) 100 mm Long	Each	55
		BMT-G.104	Aluminium Door Handles (IS:208) 125 mm Long	Each	78
		BMT-G.105	Aluminium Door Handles (IS:208) 150 mm Long	Each	92
		BMT-G.106	MS-Powder Coated Door Handles (IS:208) 125 mm Long	Each	33
		BMT-G.107	MS-Powder Coated Door Handles (IS:208) 150 mm Long	Each	48
		BMT-G.108	Stainless Steel Door Handles 100 mm Long	Each	101
		BMT-G.109	Stainless Steel Door Handles 125 mm Long	Each	120
		BMT-G.110	Stainless Steel Door Handles 150 mm Long	Each	147
		BMT-G.111	Stainless Steel Door Handles 200 mm Long	Each	165
IV..SUB-SECTION			ALDROPS		
231	MAT-00942	BMT-G.37	Brass Aldrop (IS:2681) 300 mm long	Each	1195
232	MAT-00943	BMT-G.38	Brass Aldrop (IS:2681) 350 mm long	Each	2300
233	MAT-00944	BMT-G.39	Brass Aldrop (IS:2681) 450 mm long	Each	3255
234	MAT-00945	BMT-G.40	Aluminium Aldrop (IS:2681) 200 mm long	Each	265
235	MAT-00946	BMT-G.41	Aluminium Aldrop (IS:2681) 250 mm long	Each	314
236	MAT-00947	BMT-G.42	Aluminium Aldrop (IS:2681) 300 mm long	Each	338
237	MAT-00948	BMT-G.43	MS-Powder Coated Aldrop (IS:2681)200 mm long	Each	100
238	MAT-00949	BMT-G.44	MS-Powder Coated Aldrop (IS:2681)250 mm long	Each	129
239	MAT-00950	BMT-G.45	MS-Powder Coated Aldrop (IS:2681) 300 mm long	Each	154
			Brass Aldrops (IS:2681) 300 mm long	Each	1223

			Brass Aldrops (IS:2681) 350 mm long	Each	2356
			Brass Aldrops (IS:2681) 450 mm long	Each	3354
V.SUB-SECTION			LATCHES		
240	MAT-00953	BMT-G.48	Aluminium Flat Latches: 200 mm long	Each	117
241	MAT-00954	BMT-G.49	Aluminium Flat Latches: 250 mm long	Each	131
242	MAT-00955	BMT-G.50	Aluminium Flat Latches: 300 mm long	Each	144
243	MAT-00956	BMT-G.51	MS-Powder Coated Flat Latches: 250 mm long	Each	61
244	MAT-00957	BMT-G.52	MS-Powder Coated Flat Latches: 300 mm long	Each	77
245	MAT-00973	BMT-G.68	Brass latch heavy 300 mm	Each	625
246	MAT-00974	BMT-G.69	Brass latch heavy 350 mm	Each	725
247	MAT-00975	BMT-G.70	Brass latch heavy 450 mm	Each	912
VI..SUB-SECTION			DOOR CLOSURES		
248	MAT-00968	BMT-G.63	Providing and fixing Cast Iron Body Bottle Type Hydraulic Door Closer (IS: 3564) with double speed adjustment, with necessary accessories and screws etc. complete	Each	876

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
249	MAT-00979	BMT-G.74	Providing and fixing Aluminium Extruded Section Body Tubular Type Hydraulic Door Closer (IS: 3564) with double speed adjustment with necessary accessories and screws etc. complete (Type-1: for width of doors up to 700 mm)	Each	1065
250	MAT-00980	BMT-G.75	Providing and fixing Aluminium Extruded Section Body Tubular Type Hydraulic Door Closer (IS: 3564) with double speed adjustment with necessary accessories and screws etc. complete (Type-2: for width of doors 701 to 850 mm)	Each	1197
251	MAT-00981	BMT-G.76	Providing and fixing Aluminium Extruded Section Body Tubular Type Hydraulic Door Closer (IS: 3564) with double speed adjustment with necessary accessories and screws etc. complete (Type-3: for width of doors 851 to 1000 mm)	Each	1390
VII.SUB-SECTION			FLOOR SPRINGS		
252	MAT-00969	BMT-G.64	Double action Stainless steel cover plate and cast body iron floor spring (IS 6315- Table-1)	Each	1919
253	MAT-00970	BMT-G.65	Double action Brass cover plate and cast brass body floor spring (IS 6315- Table-1)	Each	4600
254	MAT-00982	BMT-G.77	Providing and fixing double action brass cast hydraulic floor spring (IS:6315-Table 1) for doors including cost of cutting floors as required, embedding in floors and S.S./ Brass cover plates with brass pivot and single piece M.S. Sheet outer box with slide plate etc. complete (door weight capacity up to 130 kgs)	Each	3900
255	MAT-00983	BMT-G.78	Providing and fixing double action brass cast hydraulic floor spring (IS:6315-Table 1) for doors including cost of cutting floors as required, embedding in floors and S.S.cover plates with brass pivot and single piece M.S. Sheet outer box with slide plate etc. complete (door weight capacity up to 80 kgs)	Each	2795
256	MAT-00984	BMT-G.79	Providing of brass cast body Floor Spring IS: 6315 sleek in size with the S.S. / Brass Cover plates of Length 320 mm x Breadth 130 mm size along with the Top Patch, Bottom Patch, Door Lock and Pivot with Double Cylinder etc. complete for Heavy duty Glass doors.	Each	11506
VIII SUB-SECTION			MORTICE LOCKS		
257	MAT-00971	BMT-G.66	Heavy duty mortise lock 6/7 levers (IS:2209) with PC or CP handles complete set	Each	875

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs)
1		2	3	4	5
258	MAT-00972	BMT-G.67	Heavy duty mortise lock 6/7 levers (IS:2209) with brass heavy handles	Each	2036
IX.SUB- SECTION			OTHER ACCESSORIES		
259	MAT-00958	BMT-G.53	MS-Powder Coated - Door Stoppers	Each	45
260	MAT-00962	BMT-G.57	Heavy duty Aluminium Door stopper	Each	58
261	MAT-00951	BMT-G.46	Brass Door Stoppers	Each	185
262	MAT-00976	BMT-G.71	Friction stay hinges for windows	Each	100
263	MAT-00961	BMT-G.56	Deluxe window stay Aluminium	Each	135
264	MAT-00952	BMT-G.47	Brass Windows Stay	Each	201
265	MAT-00959	BMT-G.54	Supply & fixing drapery rods (25.4 mm) 1" x 21 G Powder coated with PVC rings	RM	119
266	MAT-00960	BMT-G.55	Supply & fixing drapery bracket - brass powder coated	pair	445
267	MAT-05348	BMT-G.82	Providing and fixing zinc alloyed (white powder coated) touch lock for uPVC sliding window with necessary screws etc. Complete	Each	1700
268	MAT-05349	BMT-G.83	Providing and fixing steel roller for uPVC sliding window with necessary screws etc. complete.	Each	97
269	MAT-05350	BMT-G.84	Providing and fixing steel roller for uPVC sliding door with necessary screws etc. complete.	Each	155
270	MAT-05351	BMT-G.85	Providing and fixing steel (white power coated) crescent lock for uPVC sliding window/ door with necessary screws etc. complete.	Each	175
H.SECTION			WATER PROOFING CHEMICALS & ADMIXTURES <i>Literature for usage / application of construction / water proofing materials, epoxies etc, may be obtained from manufacturers.</i>		
289	MAT-01021	BMT-H.37	Anti corrosion CRPPC (Corrosion Resistant) inhibitive admixture. Note: The user departments who ever are preparing the estimate, have to satisfy themselves with the performance and result of the product before proposing the item.)		340

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
336	MAT-05352	BMT-H. 66	<p>Pre construction Anti termite is a process in which chemical toxic to subterrean termites is apply/ inject into soil during early stage of building Construction</p> <p>2. Treatment of soil Beneath the building and around the foundations conduct and chemical use as per BIS - IS 6313 (Part -2) 2013 code specification & CIB RC registered termiticide which creates a continuous chemical barrier beneath the building which kills or repels termites & impervious to termite entry Imidacloprid 30.5% SC (IS 63131) dissolve 2.1 MI/1 liter of water and apply emulsion/solution @ 7.5 Litres/Square meter (Sqm) of internal, external vertical surface of the columns , plinth beams (Back filling) walls and floor junction, external perimeters, along retaining wall @ 5.0 Liters/Sqm of the horizontal surface of basement top surface of the basement filling below flooring bed (Plinth) & @ 2.0 Litres/ Line meter at expansion joints. The substructure of a depth of 500mm around coulmns & 300mm deep around plinth beams, basements & floor filling area including excavation channel along the wall & rodding etc. cost & Conveyance of all materials to the site, cost of labour for sparying, rodding etc. complete for furnished item of work as per the approval of the Engineer-in-charge</p>	1 Sqm	162
337		BMT-H. 67	ITEM DELETED		
I.SUB- SECTION			REPAIRING AND TREATMENTWORKS		
		BMT-H.68	SURFACE PREPARATION		
			Cleaning of the surface : For Waterproofing treatment		
338	MAT-05353	BMT-H.68.A	(If the surface is sound & hard Condition) The surface must be clean and sound duly removing of existing treatments clean from dirt, dust and other contaminations by power grinding wire brushing , air blower & jetwater cleaing.	Sqm	65

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
339	MAT-05354	BMT-H.68.B	(If the surface is deteriorated or damaged / existing tiles or block laying) Chipping with pneumatic power chiseling equipment and until to achieve the hard mother concrete surface. Duly removing of debris, cleaning of the surface from dirt, dust and other foreign matters & water jet cleaning.	Sqm	162
340	MAT-05355	BMT-H.68.C	if the surface has existing damaged bituminous felt / APP membrane. Chipping and removing of existing bituminous tarfelt / membrane with chiseling equipments, grinding / wire brushing the surface duly removing the felt completely. Duly removing of debris, cleaning of the surface from dirt, dust and other foreign matters & waterjet cleaning.	Sqm	108
			SPECIALISED CHEMICAL WATERPROOFING TREATMENTS FOR TERRACE		
			WHEREVER FLOORING SURFACE IS HAVING MAJOR HAIR LINE CRACKS DEVELOPED, SEVERE LEAKAGES		
			TAKEN PLACE AND REQUIRED TO REDUCE THE ROOM TEMPERATURES - SELF ASSESSED TREATMENTS TO IDENTIFY EACH LAYER OF TREATMENTS : REFER THE RATES FOR CLEANING AND CRACK FILLING UNDER THE HEAD OF THE WORKS Item Code BMT-H.68 SURFACE PREPARATION SUB HEADING : CLEANING OF THE SURFACE FOR WATERPROOFING TREATMENT.		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
341 (a)	MAT-05356	BMT-H.69	<p>SPECIALISED FIVE LAYER SYSTEM OF WATERPROOFING TREATMENT TO THE TERRACE WITH Roofcare-prc 5 Systems or equivalent (ROOFCARE PRC 5 (Armstrong) / ZORICOAT PFC 5 (PMCC)/ POWER SAC 5 L (EBT)/ WATERSHIELD 5 LWC</p> <p>a). Ist Layer Black coloured chemical treatment : Providing and application of one coat of High bonding, flexible bituminous polyurethane blended bituminous coating with – Roofcare prc 5 systems Confirming to ASTM-G 154 - 2000 or equivalent Ist Layer diluting with water at 1 : 1 ratio as a primer coat at a consumption of 200ml per Sqm.</p> <p>b). IInd Layer : Providing and laying of Fibre Mesh 40 GSM, with 1 Mtr width and 50mm overlap on the primed surface.</p> <p>c). IIIrd Layer Grey coloured coating : Providing and application of one coat of Acrylic rubberized elastomeric flexible waterproof grey coating with – Roofcare prc 5 systems ASTM-C 836 or equivalent or equivalent diluting with 50% of water at a consumption of 400ml per Sqm.</p> <p>d) IVth Layer white colored coating : Providing and application of one coat of High solid, cold applied, Fibre reinforced acrylic elastomeric waterproof membrane off white coating –Roofcare prc 5 systems Confirming to ASTM-G 154 -2000 or equivalent coating (add the water upto 200ml) (Consumption of 350ml per Sqm).</p> <p>e) Vth Layer super white reflective coating : Application of one coat of 100% pure acrylic solar reflective pure white coating withRoofcareprc 5</p>	Sqm	571

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			systems Confirming to ASTM -C 297 or equivalent solar reflective coating diluting with 20% of water (Consumption of 300ml per Sqm). Note : THE ABOVE TREATMENT WILL BE GUARANTEED FOR 5 YEARS		
341 (b)		BMT-H.69 (b)	<p>SPECIALISED FIVE LAYER SYSTEM OF WATERPROOFING TREATMENT TOTHE TERRACE WITH MIXGUARD HR5 System .</p> <p>Providing and laying five layers waterproofing cum heat reflective treatment (MIXGUARD HR5 or equivalent) over the old / new roof slab/ terrace, all as directedby Department Engineer-in-charge with the following specification and should be complain with the following technical parameters for the system - Density: 1.3 Gm/cc, Solids content: 68% ± 2% byweight, Elongation at break ASTM D 638: 200% (for the system), Adhesion to substrate ASTM D 4541: >1.5 N/mm2, Water penetration DIN 1048: no leak at 7 bars, Tear resistance ASTM D 1004-76: 17N/mm2, Tensile strength ASTM D 412- 87:6.0N/mm2</p> <p>a) First Layer - Supply and Apply penetrative cum bonding primer as base primer cum sealer coat using MIXPRIMEAC100 or equivalent modified with waterand cement at the ratio 2:1:3 (MIXPRIME AC 100 : water : cement) by volume with a slow speed mixer machine. This compound shall be applied with sufficient thickness to cover the holes/pores/cracks @ 1.000 Liter / SQM (0.350 Lt of MIXPRIME AC100 / SQM) and the raw primer should be complain with ASTM 4541 and the Solid content 49% <u>+2%</u></p> <p>b) Second Layer – Supply and apply of 2 x2 mm welded with alkaline resistant coated / non-woven 40 Gsm verging fiber mesh MIXMAT GFM 50 or equivalent for a minimum over lap of 100 mm embedded in the primer coat</p> <p>c) Third Layer - Supply and apply of bonding cum water tight acrylic high viscous white primer MIXPRIME AC or equivalent @ 0.250 Kg / SQM (dilution</p>	Sq.m	571

			<p>or modification not recommended) should be complain with Density: 1.1gm/cc, Solids content: 50 % ± 2% by weight, Elongation at break ASTM D 638: >300%, Adhesion to substrate ASTM D 4541: >1 N/mm², Tensile strength ASTM D 638: >1.5 N/mm², Reduction in chloride ion ingress: 94% @ 28 days</p> <p>d) Fourth Layer – Supply and apply of high elastomeric acrylic waterproofing cum weather proof high viscous white liquid membrane MIXGUARD HR or equivalent @ 0.500 Kg / SQM (dilution or modification not recommended) should be complain with Density: 1.30 gm/cc , Solids content: 68% ± 2% by weight, Elongation at break ASTM D 638: 400%, Tensile strength ASTM D 412: 1.8N/mm², Adhesion to substrate ASTM D 4541: >1 N/mm², Water penetration DIN 1048: no leak at 7 bars (+ve side), Water vapor transmission ASTM E96: 19g/m²/day, Crack bridging ASTM C836: No cracks up to 2mm thick.</p> <p>E) Fifth Layer - Supply and apply of fiber reinforced flexible high grade pure acrylic modified waterproofing cum heat reflective high viscous white liquid membrane MIXGUARD HRXtra or equivalent @ 0.500 Kg / SQM (dilution or modification not recommended) Density: 1.3 gm/cc Solids content: 68% ± 2% by weight, Elongation at break ASTM D 638: 200% , Adhesion to substrate ASTM D 4541: >1.3 N/mm², Water penetration DIN 1048: no leak at 7 bars, Tear resistance ASTM D 1004-76: 15N/mm² , Tensile strength ASTM D 412-87: 3.0N/mm², Solar reflectance –ASTM G173 – 92 % , Water vapor transmission ASTM E 96 – 19 Kg / M² / day.</p> <p>Note: -</p> <p>1) No dilution or modification recommended for item No.b,c,d and e .</p> <p>2) All materials should be procured as per the consumption with respect of the work order.</p> <p>3) The application should be carried out by an approved agency.</p> <p>) The contractor should provide 5 years material warranty from the Manufacturer and 5 year warranty from the applicator or combined</p>		
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S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			<p>WHEREVER FLOORING SURFACE IS HAVING HAIR LINE CRACKS DEVELOPED, SEVERE LEAKAGES AND FOUND VERY SLIGHTLY MORTAR DEBONDED WITH ORIGINAL SLAB - TAKEN PLACE : REFER THE RATES FOR CLEANING AND CRACK FILLING UNDER THE HEAD OF THE WORKS RAINSEAL FRC SPECIALISED HIGH STRENGTH FIBRE REINFORCED ACRYLIC ELASTOMERIC AND HEAT RESISTANT LIQUID MEMBRANE COATING CHEMICALS Confirmed ASTM C 836/89A & ASTM C 297 FOR TERRACE.</p>		
342	MAT-05357	BMT-H.70	<p>SPECIALISED HIGH STRENGTH CELLULOSE FIBRE REINFORCED ACRYLIC ELASTOMERIC LIQUID MEMBRANE COATING FOR TERRACE :</p> <p>a). Providing and application of one coat of High Solid, Cold applied Acrylic Elastomeric Liquid Membrane Coating with – RAINSEAL (Armstrong)/ POWER n COAT EWC (EBT) / DECKGUARD E 2000 (Fosroc) /ZORICOAT EWC (PMCC) / SIKAGARD 550 W / WATERSHIELD EWC 600 diluting with water at 1 : 0.50 ratio as a primer coat at a consumption of 200ml per Sqm.</p> <p>b). Providing and laying of Non woven polyester reinforced fibre mesh of 40 GSM, with 1 Mtr width and 50mm overlap on the primed surface.</p> <p>c) Providing and application of one coat of High strength cellulose fibre reinforced Acrylic Elastomeric Liquid Membrane coating with -RAINSEAL CFR (Armstrong / ZORICOAT CF (PMCC) / POWER n COAT CR (EBT) WATERSHIELD FLEX CR / FIBRE REINFORCED ACRYLIC ELASTOMERIC COATINGS (Fosroc) diluting with water at 20% as a base coat application at a consumption of 400ml per Sqm.</p>	Sqm	551
			<p>WHEREVER FLOORING SURFACE IS HAVING HAIR LINE CRACKS DEVELOPED, SEVERE LEAKAGES AND FOUND SOME PLACES MORTAR DEBONDED WITH ORIGINAL SLAB - TAKEN PLACE :</p>		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			REFER THE RATES FOR CLEANING AND CRACK FILLING UNDER THE HEAD OF THE WORKS BMT-H.68 © and BMT-H.83 chemical complies with ASTM C 297.		
343(a)	MAT-05358	BMT-H.71	<p>SPECIALISED HIGH PERFORMANCE ACRYLIC POLYMER MODIFIED ELASTOMERIC CEMENTITIOUS WATERPROOF COATING TO THE TERRACE</p> <p>a). Providing and application of one coat of High performance Acrylate penetrative water barrier primer – ROOFBOND BCS (Armstrong) / ZORIBOND BCS (PMCC) / POWER n PENETRATE (EBT) / WATERSHIELD CP / DECKGUARD CP (Fosroc) /SIKAGARD 705 L (Sika) diluting with water at 1 : 0.50 ratio as a primer coat at a consumption of 200ml per Sqm.</p> <p>b). Providing and laying of Non woven polyester reinforced fibre mesh of 40 GSM, with 1 Mtr width and 50mm overlap on the primed surface.</p> <p>c) Providing and application of one coat of Two part system of high performance acrylic polymer modified elastomeric cementitious waterproof coating ROOFBOND RFX (Armstrong) /POWER n COAT RFX (EBT) / BRUSHBOND RFX (Fosroc)/ZORIBOND RFX (PMCC) / WATERSHIELD RFX /SIKAGARD 550 U 2K (Sika) mixing of powder and liquid as per packing at 1:2 ratio. (add the water upto 200ml) at a consumption rate of 300 Grams mix.</p> <p>d). Providing and application of one coat of Two parts system fibre Reinforced Acrylic Cementitious Coatings with –ROOFBOND FRC (Armstrong) ZORIBOND FRC (PMCC) / POWER n BOND FRC (EBT)/ WATERSHIELD BOND FR / Fosroc mixing of powder and liquid as per packing at 1:2 ratio (add the water upto 200ml) at a consumption rate of 300 Grams mix.</p>	Sqm	513

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
343(b)		BMT-H.71(b)	<p>SPECIALISED HIGH PERFORMANCE ACRYLIC POLYMER MODIFIED ELASTOMERIC CEMENTITIOUS WATERPROOFING SYSTEM COATING TO THE WET AREA / TOILET / BATH ROOM .</p> <p>a) First Layer - Supply and Apply penetrative cum bonding primer as base primer cum sealer coat using MIXPRIME AC100 or equivalent modified with water and cement at the ratio 2:1:3 (MIXPRIME AC 100 : water : cement) by volume with a slow speed mixer machine. This compound shall be applied with sufficient thickness to cover the holes/pores/cracks @ 1.000 Liter /SQM (0.350 Lt of MIXPRIME AC100 / SQM) and the raw primer should be comply with ASTM 4541 and the Solid content 49% <u>+2%</u></p> <p>b) Second Layer – Supply and apply of 2 x2 mm welded with alkaline resistant coated / non-woven 40 Gsm verging fiber mesh MIXMAT GFM 50 or equivalent for a minimum over lap of 100 mm embedded in the primer coat</p> <p>c) Third Layer - Supply and apply of first coat of two component (Powder + Liquid) system of high performance acrylic polymer modified elastomeric cementitious waterproofing system MIXGUARD AC or equivalent @ 1.000 Kg / SQM (mix the powder and liquid with the help of a slow speed mixer for a period of 2 to 3 minutes up to get a homogeneous mix- dilution or modification not recommended) should be comply with BS 1881 Part 5 1983 (ISAT 476 Part 6), DIN 1048 Part 5 1991, BSEN 12390-8 2000, ASTM D 412-92</p> <p>d) Fourth Layer –Supply and apply of second coat of two component (Powder + Liquid) system of high performance acrylic polymer modified elastomeric cementitious waterproofing system MIXGUARD AC or equivalent @ 1.000 Kg / SQM (mix the powder and liquid with the help of a slow speed mixer for a period of 2 to 3 minutes up to get a homogeneous mix- dilution or modification not recommended) should be comply with BS 1881 Part 5 1983 (ISAT</p>	Sq.m	513

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			476 Part 6), DIN 1048 Part 5 1991, BSEN 12390-8 2000, ASTM D 412-92. Note: - 1) No dilution or modification recommended for item Nos.b,c,d and e . 2) All materials should be procured as per the consumption with respect of the work order. 3) The application should be carried out by an approved agency. 4) The contractor should provide 5 years material warranty from the Manufacturer and 5 year warranty from the applicator or combined		
344	MAT-05359		<i>WHEREVER FLOORING SURFACE IS HAVING MAJOR HAIR LINE CRACKS DEVELOPED, SEVERE LEAKAGES TAKEN PLACE AND REQUIRED TO REDUCE THE ROOM TEMPERATURES - SELF ASSESSED TREATMENTS TO IDENTIFY EACH LAYER OF TREATMENTS : REFER THE RATES FOR CLEANING AND CRACK FILLING UNDER THE HEAD OF THE WORKS</i>	Sqm	583
		BMT-H.72	a). Providing and application of one coat of High bonding, flexible bituminous polyurethane blended black coating with ROOFCARE PU (Armstrong) /POWER n COAT PU (EBT) / NITOBOND POLYURETHANE BLENDED BITUMEN COAT (Fosroc) /ZORICOAT PU (PMCC)/SIKALASTIC 450 L/WATERSHIELD ELASTIC 450 PU (Polyurethane blended Bituminous waterproof coating system) Complies with ASTM 836 - DN 1048 diluting with water at 1 : 1 ratio as a primer coat at a consumption of 200ml per Sqm. b). Providing and laying of Non woven GEO Fabric 40 GSM, with 1 Mtr width and 50mm overlap on the primed surface. c). Providing and application of one coat of Acrylic rubberized elastomeric flexible waterproof grey coating with – RAINSEAL RWC 902 (Armstrong) / POWER n COAT RC / ZORICOAT RC(PMCC) / (Fosroc) / WATERSHIELD RC FLEX Complies with ASTM G 154 - 2000 diluting with 50% of water at a consumption of 400ml per Sqm. d) Providing and application of one coat of High solid, cold applied, Fibre reinforced acrylic elastomeric waterproof membrane off white coating –		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			<p>ROOF COAT FRC (Armstrong) / ZORCOAT FC (PMCC) / POWER n FRX 2 (EBT) / WATERSHIELD FRC / DECKGUARD FRC (Fosroc) Complies with ASTM C 297 (add the water upto 200ml) (Consumption of 350ml per Sqm).</p> <p>e) Application of one coat of 100% pure acrylic solar reflective pure white coating with - ROOFCARE COOL (Insulator) / POWER n COOL (EBT) / BRUSHBOND COOL COAT (Fosroc)/ZORISHIELD XL (PMCC) / SIKA COOL COAT (Sika) //WATERSHIELD COOL COAT diluting with 20% of water (Consumption of 300ml per Sqm).</p>		
			<p>FOR WATERPROOFING OF PORTABLE WATER TANKS / RESERVOIRS / SUMP/ TERRACE / SIDE WALLS : REFER THE RATES FOR CLEANING AND CRACK FILLING UNDER THE HEAD OF THE WORKS</p>		
345	MAT-05360	BMT-H.73	<p>SPECIALISED ACRYLIC CEMENTITIOUS ELASTOMERIC WATERPROOF COATING TREATMENT Complies with ASTM C 297 :</p> <p>Providing and Application of two coats of Acrylic cementitious elastomeric waterproof coating with- Roofcoat or equivalent like high elastomeric acrylic polymer modified cementitious waterproof system.</p>	Sqm	378
			<p>FOR WATERPROOFING OF TERRACE / SIDE WALLS : REFER THE RATES FOR CLEANING AND CRACK FILLING UNDER THE HEAD OF THE WORKS</p>		
346	MAT-05361	BMT-H.74	<p>SPECIALISED ACRYLIC CEMENTITIOUS ELASTOMERIC WATERPROOF COATING TREATMENT Complies with ASTM C 297 :</p> <p>Providing and Application of two coats of Acrylic cementitious elastomeric waterproof coating with - ROOFCOAT (Armstrong) POWER n COAT (EBT)/ BRUSHBOND (Fosroc) ZORICOAT (PMCC)/SIKA TOPSEAL 107 (Sika) /</p>	Sqm	421

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			<i>WATERSHIELD COAT PC like high elastomeric acrylic polymer modified cementitious waterproof system.</i>		
			WHEREVER HIGH FLEXIBLE HIGH BONDED NECESSARY FOR WATERPROOFING OF TERRACE / SLOPED ROOFS / ACC SHEETS etc., FOR A GUARANTEE OF 5 YEARS REFER THE RATES FOR CLEANING AND CRACK FILLING UNDER THE HEAD OF THE WORKS		
347	MAT-05362	BMT-H.75	<p>SPECIALISED HIGH SOLID, COLD APPLIED, ACRYLIC WATERPROOF COATING TO THE EXTERNAL WALLS Acrylic elastomeric waterproof exterior coatings Complies with ASTM C 836 / 89 A :</p> <p>Providing and application of two coats of High solid, cold applied, Acrylic Elastomeric Liquid Membrane Coating with –RAINSEAL (Armstrong) / POWER n COAT EWC (EBT) / DECKGUARD E 2000 (Fosroc) /ZORICOAT EWC (PMCC) / SIKAGARD 550 W / WATERSHIELD EWC 600diluting with 20% of water mixing with required colour stainers.</p>	Sqm	421
			<i>WHEREVER REQUIRED FOR WATERPROOFING OF TERRACE / SLOPED ROOFS / ACC SHEETS etc., FOR A GUARANTEE OF 3 YEARS REFER THE RATES FOR CLEANING AND CRACK FILLING UNDER THE HEAD OF THE WORKS</i>		
348	MAT-05363	BMT-H.76	<p>SPECIALISED HIGH BONDING, FLEXIBLE BITUMINOUS POLYURETHANE BLENDED BITUMINOUS COATING Complies with ASTM C 836 - DN 1048 :</p> <p>Providing and application of two coats of High bonding, flexible bituminous polyurethane blended bituminous coating with ROOFCARE PU (Armstrong) / POWER n COAT PU (EBT) / NITOBOND POLYURETHANE BLENDED BITUMEN COAT (Fosroc)/ ZORICOAT PU (PMCC)/ SIKALASTIC 450 L / WATERSHIELD ELASTIC 450 PU diluting with 20% of water.</p>	Sqm	389

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			EXPANSION JOINT TREATMENT :		
349	MAT-05364	BMT-H.77	<p>Preparation of the surface : For existing expansion joint treatment :</p> <p>Chipping of the existing treatments over the expansion joints concrete / brick masonry with pneumatic power chiseling equipment and until to achieve the hard mother concrete surface. Chipping and removing of existing bituminous mastic board upto 25mm deep. Duly removing of debris, cleaning of the surface from dirt, dust and other foreign matters</p>	RMT	270
350	MAT-05365	BMT-H.78	<p>SPECIALISED POLYSULPHIDE SEALANT TREATMENT TO THE EXPANSION JOINTS ON TERRACE : (Size : 25mm x 12mm)</p> <p>Application of one coat of-High performance specially designed SBR latex polymer based bonding agent– ROOFBOND SBR (Armstrong) / POWER n BOND SBR (EBT) / NITOBOND SBR (Fosroc)ZORIBOND SBR (PMCC)/ SIKA LATEX (Sika) WATERSHIELD BOND SBRSTM - C 920 -95 /DIN 18549 TT -S-00227E or equivalent mixing with cement as per manufacturers c]. Providing and application of Acrylic Polymer modified reinstatement concrete/mortar admixture with - ROOFCRETE AR (Armstrong) / ZORIGROUT CMG (PMCC) / POWER n GUARD ARM (EBT) / WATERSHIELD AR / Fosroc to finish the damaged edges of joint and making the groove. d]. Providing and fixing of masking tape on top of the joint both sides. e]. Providing and fixing of Back up support material of Polyethelene foam to leave the depth of 12mm on the joint. f]. Providing and application of one coat of polysulphide primer with – Polysulphide primer on inner edge on joints. g]. Providing and application of Two part Polysulphide sealant to a width of 25mm and 12mm depth with - ROOFSEAL PS (Armstrong) / POWER n SEAL PS (EBT) /NITOSEAL PS 200 (Fosroc)/ ZORISEAL PS (PMCC) / SIKA</p>	RMT	702

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			POLYSULPHIDE (Sika) / WATERSHIELD PS Complies with BS 4254 - 83 or equivalent with putty knife and neat finish. h]. Removing of masking tape and providing and application of two coats of Acrylic elastomeric cementitious coating with - ROOFSEAL PS (Armstrong) / POWER n SEAL PS (EBT) / NITOSEAL PS 200 (Fosroc) / ZORISEAL PS (PMCC) / SIKA POLYSULPHIDE (Sika) / WATERSHIELD PS		
			FOR ARRESTING WATER FLOW LEAKAGES, LEAKAGES OF CONSTRUCTION JOINTS OF RESERVOIRS / PUMP ROOMS / POWER HOUSE / PENSTOCK / CANAL DUCTS AND OTHER WATER RETAINING STRUCTURES EXECUTION IN THE PRESENCE OF WATER.		
351	MAT-05366	BMT-H.79	<p>LABOUR CHARGES FOR SPECIALISED EXPANSIVE ACQUA- REACTIVE WATER BARRIER GROUTING</p> <p>(1). Drilling of holes with Electrical Drilling machine up to the required depth i.e., (12mm to 14mm dia sized holes)</p> <p>(2). Fixing of pressure retaining aluminum / steel packers fixing with Instant setting leakproof plugging compound WONDERSEAL PLUG (Armstrong) / POWER n PLUG (EBT) / RENDROC PLUG (Fosroc) / ZORIP LUG (PMCC) / SIKA PLUG (Sika) WATERSHIELD PLUG</p> <p>(3). Grouting of holes with Air Compressed Injection equipment with single component aliphatic polyurethane grout compound- RAPIDSTRONG GROUT PU (Armstrong) POWER n GROUT PU (EBT)/NITOFIL UR 60 WS 63 (Fosroc) / ZORIGROUT PU (PMCC)/ WATERSHIELD GROUT PU</p> <p>(4). After removing the pipes sealing of the holes with polymer putty – ROOFCRETE AR SYSTEMS (Armstrong) / ZORIGROUT CMG</p>	Each	270

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			(PMCC) / POWER n GUARD ARM (EBT) / WATERSHIELD AR / Fosroc with Cement.		
352	MAT-05367	BMT-H.80	Supply of chemicals for specialised expansive aqua reactive water barrier grout - RAPIDSTRONG GROUT PU (Armstrong) POWER n GROUT PU (EBT)/NITOFIL UR 60 WS 63 (Fosroc) / ZORIGROUT PU (PMCC)/ WATERSHIELD GROUT PU	Kg	1620
			FOR STRENGTHENING AND SEAL THE POROSITY OF THE CONCRETE TO ARREST THE LEAKAGES, DAMPNESS , LEAKAGES OF CONSTRUCTION JOINTS FOR TERRACE / CEILING / RCC RETAINING WALLS / BASEMENT FLOORINGS / WATER TANKS / RESERVOIRS / TOILETS etc.,		
353	MAT-05368	BMT-H.81	SPECIALISED INJECTION GROUTING WITH CEMENT AND FREE FLOW ADDITIVES : a]. Drilling of holes with power drilling machine to the required depth [12mm to 14mm dia holes] b]. Fixing of Rubber Nozzles with cement and quick setting, Rapid hardening compound putty - Rapidstrong qs or equivalent. c]. Grouting of holes with 140 PSI Grout pump with cement slurry mixing with Specialized Free flow, Non-shrink Grout additive - RAPIDSTRONG GROUT ADMIX (Armstrong) /POWER n GROUT ADMIX (EBT) / CEBEX 100 (Fosroc)/ ZORIGROUT GP1 (PMCC) / SIKAGROUT ANCHKOR NSQ (Sika) /WATERSHIELD GROUT ADMIXi.e., 250 Grams per bag of 50 Kgs Cement add required water to make slurry form. d]. After completion of grouting, Remove the Rubber nozzles e]. Later sealing of the hole with polymer cement putty - ROOFCRETE AR (Armstrong) / ZORIGROUT CMG (PMCC) / POWER n GUARD ARM (EBT) / WATERSHIELD AR / Fosroc NITOBOND AR + Cement.	Each	162
			FOR STRENGTHENING AND SEAL THE POROSITY OF THE CONCRETE TO ARREST THE LEAKAGES, DAMPNESS , LEAKAGES OF		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			CONSTRUCTION JOINTS : (FOR TERRACE /CEILING / RCC RETAINING WALLS / BASEMENT FLOORINGS / WATER TANKS / RESERVOIRS / TOILETS etc.,)		
354	MAT-05369	BMT-H.82	SPECIALISED INJECTION GROUTING WITH CEMENT AND CRYSTALLIZATION ADMIXTURES : a]. Drilling of holes with power drilling machine to the required depth [12mm to 14mm dia holes] b]. Fixing of Rubber Nozzles with cement and quick setting, Rapid hardening compound putty Rapidstrong qs or equivalent c]. Grouting of holes with 140 PSI Grout pump with cement slurry mixing with Specialized crystallization compound-Roofex gp or equivalent @ 5% by weight of cement. d]. After completion of grouting, Remove the Rubber nozzles e]. Later sealing of the hole with polymer cement putty-ROOFCRETE AR (Armstrong) / ZORIGROUT CMG (PMCC) / POWER n GUARD ARM (EBT) / WATERSHIELD AR / Fosroc NITOBOND AR + Cement	Each	243
			CRACKS AT TERRACE / BEAM & WALLS JUNCTIONS - SEALING THE JOINTS WITH POLYURETHANE SEALANT :		
355	MAT-05370	BMT-H.83	SPECIALISED POLYURETHANE SEALANT TREATMENT : a). Making "U" Groove (width and depth of 6mm x 6mm) b). Filling of the groove with polyurethane sealant – ROOFSEAL PU (Armstrong) / POWER n SEAL PU (EBT) / THIOFLEX 600 (Fosroc) / ZORISEAL PU (PMCC) / SIKAFLEX PRO -3 WF (Sika) WATERSHIELD PU 3	RMT	356
			CRACKS AT INTERNAL / EXTERNAL WALLS - SEALING THE CRACKS WITH ACRYLIC CAULKING COMPOUND		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
356	MAT-05371	BMT-H.84	SPECIALISED ACRYLIC CAULKING SEALANT TREATMENT : a). Making "U" Groove (width and depth of 6mm x 6mm) b). Filling of the groove with Acrylic caulking compound - WONDERSEAL XL (Armstrong) / POWER n SEAL XL (EBT) / NITOSEAL (Fosroc) / WATERSHIELD XL /ZORISEAL XL LATEX (PMCC)	RMT	194
357		BMT-H.128	Providing and fixing of expansion joint system related with floor location: The joints system will be of extruded aluminum base members, self aligning / self centering arrangement and support plates etc. as per ASTM B221-02. The system shall be such that it provides floor to floor /floor to wall expansion control system for various vertical location in load application areas that accommodates multi directional seismic movement without stress to it's components. System shall consist of metal profiles with a universal aluminium base member designed to accommodate various project conditions and finish floor treatments. The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self – centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to have watertight joint is mandatory requirement all as per the manufactures design (Material shall confirm to ASTM 6063.) (Floor Joint of 200 mm gap)	RMT	7171
358		BMT-H.129	Providing and fixing of expansion joint system related with wall joint (internal/ external) location: The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221- 02. The material shall be such that it provides an Expansion Joints system suitable for vertical wall to wall / wall to corner application, both new and existing construction in buildings &	RMT	4806

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2021-22 (Rs.)
1		2	3	4	5
			complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminium profiles exhibiting minimal exposed aluminium surfaces mechanically snap locking the multi cellular to facilitate movement. (Material shall confirm to ASTM 6063.) (Wall Joint of 200 mm gap)		
359			Providing and fixing of expansion joint system of approved make and manufactures for various roof locations: The joints shall be of extruded aluminium base members with self aligning and self centering arrangement support plates asper ASTM B221-02. The system shall be such that it provides water tight roof to roof / roof to corner joint cover expansion control system that is capable of accommodating multi directional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminium base member designed to accommodate various project conditions and roof treatments. The cover plate shall be designed of width and thickness required to satisfy movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions.		
			The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. Material shall confirm to ASTM 6063.		
360		BMT-H.130	Roof Joint of 200 mm gap	RMT	5319
361		BMT-H.131	Roof Joint of 250 mm gap	RMT	6696

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
		II.SUB-SECTION	INTERGRAL WATERPROOFING COMPOUND		
362	MAT-05372	BMT-H.85	Integral Cement Waterproofing Admixture for Concrete Slabs and mortar plastering works. (Dosage : 100ml Per bag of 50 Kgs Cement) Complies with I.S. 2645-2003	1 Ltr	205
363	MAT-05373	BMT-H.86	Liquid Concentrated Micronized Cement waterproofing Compound for Slabs, mortar plastering and water retained structures. (Dosage : 500ml per bag of 50 Kgs Cement) Complies with I.S. 2645-2003	1 Ltr	129
		II.SUB-SECTION	PLASTICIZERS AND WATER REDUCING AGENT		
364	MAT-05374	BMT-H.87	Concrete plasticizers and Water reducing admixture (not air entraining agent) (Dosage : 15-20ml per bag of 50 Kgs Cement)- Complies with I.S. 9103-99 Ideal to use as concrete admixture for workability retention of slump and control water cement ratio of M 20 + grade concrete for slabs /roads works and other concrete works	1 Ltr	216
			SUPER PLASTICIZERS AND WATER REDUCING CONCRETE ADMIXTURES		
365	MAT-05375	BMT-H.88	Super plasticizer and water reducing concrete admixture base on Ligno Sulphide Complies with IS 9103 & ASTM C 494 (Dosage : 200ml to 300mlper bag of 50 Kgs Cement) For M25 + grade concrete works like Road Projects / Canal linings/ Dams / Reservoirs / Building's concrete works.	1 Ltr	76
366	MAT-05376	BMT-H.89	High performance super plasticizer and water reducing admixture based on lignosulphide and naphthalene blended	1 Kg	81

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			Complies with 9103/4-99 (Dosage : 300ml to 500ml Per Bag of 50 Kgs Cement) For M30+ grade concrete works like Road Projects / Canal linings/ Dams / Reservoirs / Building's concrete works.		
367	MAT-05377	BMT-H.90	High performance super plasticizer and water reducing admixture based on naphthalene blended Complies with 9103/4-99 (Dosage : 300ml to 500ml Per Bag of 50 Kgs Cement) For M40+ grade concrete Works like road projects / Canal linings / Dams / Reservoirs / Building's concrete works	1 Kg	86
			SELF COMPACTING CONCRETE ADMIXTURES		
368	MAT-05378	BMT-H.91	High strength super plasticizers and water reducing agent based on polycarboxylic technology. Complies with IS 9103/ASTM C 494 (300ml to 1 Ltr Per Bag of 50 Kgs Cement) For M-40+ + concrete structures in coastal areas, for early high strength.	1 Kg	120
			RETARDING ADMIXTURES		
369	MAT-05379	BMT-H.92	Super plasticizer, high range water reducing and retarding concrete admixture of naphthalene blended. (Complies with 9103-99) (Dosage : 300ml to 500ml Per bag of 50 Kgs Cement) For delaying of initial setting time and M 40+ Grade concrete works.	1 Kg	92
			CORROSION INHIBITOR ADMIXTURE		
370	MAT-05380	BMT-H.93	High strength super plasticizer and corrosion inhibitor for concrete (Complies with IS 9103-99 & EN 1504-9 Method 11.3) (Dosage : 200ml to 500ml Per Bag of 50 Kgs Cement) For Concreting under extreme corrosion effected areas / coastal areas / industrial constructions to protect the steel reinforcement. Anti Corrosion and leak proof Crack Proof,Water Proof, Concrete Hardener Admixture liquid.	1 Kg	103
			AIR ENTRAINING AGENT		
371	MAT-05381	BMT-H.94	Hi-power concentrated Air Entraining,	1 Ltr	173

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			Plasticizing & Water reducing compound Complies with IS 9103-99 & ASTM C 260 (Dosage 20ml per bag of 50 Kgs Cement) Ideal to use for the construction of Bridges, Barrages, Dams, Tunnels, Piles, Foundations, Towers etc.,		
372	MAT-05382	BMT-H.95	Two component High Power Polyester Resin Anchor Grout Compound Complies with ASTM-827 /SNF.CRDC-621 (Yield 0.5 Ltrs / 1 Kg Pack) For Anchoring / fix the steel bars into the rocks, concrete for foundations, extension of concrete.	1 Kg	351
IV. SUB-SECTION			GROUTS		
373	MAT-05383	BMT-H.96	Non-shrink Free flow high strength precision grout Complies with BS 1881 Part 1161983. For machinery / thin sections of concrete joints Filling.	1 Kg	37
374	MAT-05384	BMT-H.97	Low viscosity Epoxy resin injection grout -Two parts system. Complies with BS 6920 / ASTM 881-78 (Density 1.07 Kg Per Ltr) For Structural strengthening, filling of honey comb / voids in the concrete.	1 Kg	864
375	MAT-05385	BMT-H.98	Non-shrink, free flow, high strength grout admixture Dosage : 250 Grams Per Bag of 50 Kgs Cement. (Complies with B.S.1881 Part 1161983)	1 Kg	65
376	MAT-05386	BMT-H.99	High performrance, High build expansive acqua-reactive water barrier polyurethane grout.	1 Kg	1620
V. SUB- SECTION			BONDING AGENTS		
377	MAT-05387	BMT-H.100	Acrylic based bonding adhesive (Mix: 1:1 ratio of cement) Coverage : 50 SFT/Ltr/Coat Depending on the substrate On terrace old concrete to new mortar / screed.	1 Ltr	162
378	MAT-05388	BMT-H.101	Styrene butadiene rubber based bonding agent for mortar/ concrete	1 Ltr	486

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			(Mix: 1:1 ratio of cement) For ceiling / concrete repairs and bonding. Coverage : 50 SFT/Ltr/Coat Depending on the substrate		
379	MAT-05389	BMT-H.102	Structural element concrete bonding agent old to new concrete epoxy bonding agent : (Two Parts system of Epoxy Bonding adhesive) Complies with ASTM-C 881 Coverage : 20 – 25 SFT / Kg /Coat For Structural concrete repairs / bonding.	1 Kg	940
VI. SUB-SECTION			SEALANTS		
380	MAT-05390	BMT-H.103	Single component polyurethane sealant (Gungrade/ Pour Grade) Complies with : ASTM C 920 -95 Type S / Grade NS, Class 25, and BS ; 5212 Ideal to use for Filling of runways / buildings, expansion joints, construction joints, Terrace Cracks, Sealing joints at doors, windows, facades, frames, crack etc.,	600ml	508
381	MAT-05391	BMT-H.104	Two part polysulphide sealant (Gun / Pour Grade) Complies with ASTM C 920 - 95 / DIN 18549 TT - 5 - 00227 E/BS 4254 -83 Ideal to use for Expansion / construction joints of runways, buildings etc.,	1 Kg	442
382	MAT-05392	BMT-H.105	Acrylic Latex Caulking Compound Complies ASTM-C-834-91 Ideal for exterior and interior crack filling works, Excellent bonding strength to adjoining surface.	1 Kg	328
VII. SUB-SECTION			PROTECTIVE WATERPROOF COATINGS / CEMENT BASED COATINGS :		
383	MAT-05393	BMT-H.106	Two component system High durable cementitious acrylic based waterproofing systems : Complies with ASTM D 4541 / BS EN 12390 / DN 1048 (2 to 3 Sqm in two coats) For Terrace, Water Tanks, Walls Waterproof Coatings of Two Part System.	1 Ltr	145
384	MAT-05394	BMT-H.107	Acrylic Polymer Elastomeric	1 Ltr	378

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			Cementitious Waterproof Coatings Surface treatments for Terrace, Water Tanks, Walls, Reservoirs Waterproofing Coatings. Complies with ASTM D4541 / BS EN 12390. (Coverage :50 to 60 SFT / Ltr / coat)		
			PURE ACRYLIC ELASTOMERIC COATINGS		
385	MAT-05395	BMT-H.108	Single component, High solid, cold applied, Acrylic elastomeric waterproof membrane coating Complies with ASTM C 836 / 89A & ASTM C 297 (Coverage : 50 to 60 SFT Per/Ltr/Coat) Wherever highly flexible, crack Bridging, waterproofing required for Terrace, Walls Highly Flexible Waterproof Liquid Membrane pure Acrylic Coatings. (for brush / spray application add 20% water per Ltr)	1 Ltr	459
386	MAT-05396	BMT-H.109	Rubberized elastomeric flexible waterproof coating Complies with ASTM 836 / 89 A & ASTM C 297 Coverage : 40 to 50 SFT / Ltr / coat (for brush / spray application add 20% water per Ltr)	1 Ltr	324
			BITUMINOUS COATING		
387	MAT-05397	BMT-H.110	Polyurethane blended Bituminous waterproof coating system - Complies with ASTM C 836 / D 638 / DIN - 1048 / ASTM D 1004 - 76 (Coverage :40 to 50 SFT / Kg / coat) Ideal to use as waterproof of RCC substrates, Roofs, Sloped roofs, Basements. Provides jointless and seamless membrane waterproofing. (for brush / spray application add 20% water per Ltr)	1 Kg	616
388	MAT-05398	BMT-H.111	High Performance Acrylic blended Bituminous waterproof coating systems. Complies with ASTM C 836 (Coverage : 40 to 50 SFT / Ltr / coat) (for brush / spray application add 20% water per Ltr)	1 Kg	378
			SOLAR REFLECTIVE COATING		
389	MAT-05399	BMT-H.112	Pure Acrylic Solar Reflective insulator coating Complies with ASTM - G - 154 : 2000 & ASTM E 903 / EN 1062 - 3 requirement of EN 1504 / 2 : EN 1062 -	1 Ltr	216

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			6 Coverage : 15 SFT / Ltr / 3 Coats (for brush / spray application add 20% water per Ltr		
			EPOXY COATINGS		
390	MAT-05400	BMT-H.113	Two component Water thinnable Food Neutral Epoxy coating (Complies with ASTM - C- 881 / EN 13813) Coverage : 70 to 80 SFT per Ltr / coat Ideal to use as internal coatings for potable water tanks, reservoirs, sumps and walls. Part - I 1 Kg : Part -II 1/2 Kg dilute with 1 Ltr of water	1 Kg	459
			POLYURETHANE COATING		
391	MAT-05401	BMT-H.114	Single component cold applied polyurethane waterproof coating - Complies with ASTM 836 / EN 1062-3 requirement of EN 1504 - 2 Coverage : 300 Grams Per coat / Sqm. brush / spray application add 20% water per Ltr	1 Kg	432
		VIII. SUB-SECTION	ANTI CORROSIVE AGENTS		
392	MAT-05402	BMT-H.115	Acrylic based Anti corrosive coating To protect the exposed reinforcement/steel structures against corrosion. Coverage : 40 SFT Per Ltr / Coat.	1 Ltr	378
393	MAT-05403	BMT-H.116	Rust converter–rust encapsulating coating for steel During repairs to protect, to convert the rust of reinforcement / steel. Coverage : 50 SFT Per Ltr / Coat	1 Ltr	518
394	MAT-05404	BMT-H.117	High range zinc rich epoxy resin primer for reinforcement steel protection against corrosion. Coverage : 4 Sq.Mtr. /Ltr / Coat	1 Kg	513
		IX. SUB-SECTION	CURING COMPOUND&MISCELLANEOUS CHEMICALS		
395	MAT-05405	BMT-H.118	Acrylic blended water based concrete curing compounds Complies with ASTM - C - 309 Class - A Types I & II Coverage : 3.5 to 4 Sqm / Kg / Coat	1 Kg	65

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			CONCRETE REPAIR ADMIXTURES		
396	MAT-05406	BMT-H.119	Acrylic polymer modified reinstatement concrete /mortar admixture Dosage : 1 to 2 Ltrs Per Bag of 50 Kgs Cement can be mixed with required aggregates To achieve trusted High Strength Concreting / Structural rehabilitation / concrete repairs.	1 Ltr	486
			CRYSTALLIZATION COMPOUND		
397	MAT-05407	BMT-H.120	Concrete waterproofing with crystallization system by blocking inner pores and cavities of concrete. Coverage : 1.25 Kg per Sqm / Coat For Negative Water Pressure Treatments like Cellar / Ceiling areas etc.,	1 Kg	389
			PLUGGING COMPOUND		
398	MAT-05408	BMT-H.121	Fast setting cement based plugging compound. To arrest water flow leakages. (Powder Form :mix with water direct application	1 Kg	92
			SHOTCRETE / GUNITING ADMIXTURE		
399	MAT-05409	BMT-H.122	Set Accelerator for sprayed concrete and plasticizer Complies with IS 9103-99 / ASTM C 494 Type C / BS 5075 Dosage : 1 Kg to 3 Kgs per Bag of 50 Kgs Cement Depend on setting time required For shotcrete / Gunniting / Emergency concrete works	1 Kg	92
400	MAT-05410	BMT-H.123	Quick setting, rapid hardening and water proofing compound Complies with ASTM C 494 Type C / IS 9103 -99 & BS 5075. Dosage : 1 Kg to 3 Kgs Per Bag of 50 Kgs Cement Depend on setting time For emergency works/Anti wash and under water concreting.	1 Ltr	86
			MICRO CONCRETE		
401	MAT-05411	BMT-H.124	High strength non-shrink cementitious micro concrete	1 Kg	41
			TILE ADHESIVES / GROUTS		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2021-22 (Rs.)
1		2	3	4	5
402	MAT-05412	BMT-H.125	Tile Adhesive. Confirms to IS 15477-2004 for both type I & II / BS : EN 12004 CTT adhesive. For excellence adhesion, improved workability waterproof and also heat resistant tile fixing adhesive. At 3mm thickness 65-70 SFT	1 Kg	59
403	MAT-05413	BMT-H.126	Three component system epoxy grout for Vitrified tiles, Ceramic tiles and stones B.S. 5980 : 1980 / BS EN 120004, R 2 T. Depends upon tile dimension and grout width	1 Kg	745
404	MAT-05414	BMT-H.127	Polymer Modified Tile Grout Complies with BS EN 13888, CG 2AW 4 - 4.5 Sqm / Kg of 150 mm x 150mm tile size mix 1 Part Water with 4 Parts Powder Pack	1 Kg	65
405		BMT-H.133	<p>SPECIALISED POLYSULPHIDE / POLYURETHANE / HIGHBRED ACRYLIC /SEALANT TREATMENT TO THE OLD / EXISTING EXPANSION JOINT IN THE TERRACE, COLUMN, BEAM</p> <ol style="list-style-type: none"> 1. Cut and remove the existing expansion joint in the screed for a minimum width of 200 mm and a depth of screed (up to the mother slab) by using diamond disc cutting machine and dispose the debris as per the department instruction. All elevated kerb wall both sides of the expansion joint along with the top free laying slab, cover etc as per the site conditions under the scope of the main contractor / client 2. Remove the existing filling for a minimum depth of 40 mm using sharp knife (approximate size 25 x 40 mm) as per the site condition. 3. If the site condition allows to insert backer rod, remove the existing filling for a minimum depth of 70 mm from the top (the clear filling of sealant should be 40 mm) and insert MixCELL R inside the joint. 4. Clean the surface with air blower up to receive a dust free surface and make sure the surface is sound dry or the moisture content is less than 5 %. 	RMT	2535

			<ol style="list-style-type: none"> 5. Apply one coat of Penetrative Primer MixPRIME SB 300 and allow touching dry. 6. Fill the MixFLEX AC in the joint by using a sealant gun / notch trowel as per site condition up to the required depth and width and allow to dry for a minimum period of 1 day as per the climatic condition. 7. Apply two coat of penetrative sealer coat site mixed primer MixPRIME AC100 - mix with portable water and OP Cement in the ratio of 2:1:3 (Two part MixPRIME AC100 : One Part water : 3 Part OP cement by using slow speed mixer machine with paddle for a period of 2 to 3 minutes up to receive a homogeneous mix) @ 1.000 Liter per SQM in the entire screed removed portion (vertical and horizontal faces) of 200 mm along with saturated (saturated with MixPRIME AC100: Water: OP Cement in the ratio of 2:1:1) MixFELT P50 in between the two coats and allow to cure for a period of 6 hours. 8. Do the necessary levelling plastering with cement sand mortar 1:2:4 (6 mm aggregate) screed along with the addition of MixBOND SBR Super and PLAST FIBER 3S as per the following for a minimum thickness of removal. <ol style="list-style-type: none"> a. Mix the MixBOND SBR Super @ 2 Liter / Bag Cement in the ratio of 1:4 Mortar (Pre mix the admixture in the portable water for preparing the mortar) b. Add 100 Gram PLASTFIBRE 3S in the above liquid and stirred well with a slow speed drill with paddle. c. Prepare the cement sand screed in the ratio of 1:2:4 with above prepared liquid for the suitable consistency. d. Necessary curing and drying for a minimum period of 4 days. 9. In wet condition, provide a dummy expansion joint on the top of the screed for a minimum size of 10 x 10 mm by using sharp trowel 10. Apply one coat of Penetrative Primer MixPRIME SB 300 in the 		
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			<p>entire surface of the dummy joint and allow to touch dry for a period of 30 minutes.</p> <p>Fill the MixFLEX AC in the joint by using a sealant gun / notch trowel as per site condition up to the required depth and width</p> <p><u>Procedure for MixGUARD HR5 Waterproofing System – 500 mm width</u></p> <ol style="list-style-type: none"> 1. Apply one coat of penetrative sealer coat site mixed primer MixPRIME AC100 - mix with portable water and OP Cement in the ratio of 2:1:3 (Two part MixPRIME AC100 : One Part water : 3 Part OP cement by using slow speed mixer machine with paddle for a period of 2 to 3 minutes up to receive a homogeneous mix) @ 1.000 Liter per SQM as per the porosity of the prepared mother slab by using roller brush / hand brush / Sprayer and allow to dry for a period of 6 to 8 Hrs after the laying of tensile reinforcement mat. 2. Lay the MixMAT GFM70/50 (as per site condition) on the top of MixPRIME AC100 in the wet condition. In such a way place the MixMAT GFM 70/50 on the prepared surface and applied the slurry over also obtain the same technical property. 3. Apply one coat of penetrative primer MixPRIME AC @ 0.250 Liter per SQM by using roller brush / hand brush / sprayer and allow drying for a period of 6 Hrs. 4. Application of Base Coat Water Proofing System with MixGUARD HR @ 0.500 Kg / SQM by using roller brush / hand brush / sprayer and allow to dry for a period of 6 Hrs. 5. Application of Top Coat Water Proofing System with MixGUARD HR Xtra @ 0.500 Kg / SQM by using roller brush / hand brush / sprayer and allow to final curing for a period of 2 to 3 days <p>with ROOFSEAL PS, MixFLEX AC, ZORISEAL PS, POWR n SEAL PS, NITOSEAL PS 200, WATERSEAL PS or equivalent comply with BS 5254, ASTM C 834, ASTM C 1253, ASTM D 4541, ASTM D 1117, ASTM D 5729</p> <p>Note: -</p> <ol style="list-style-type: none"> 1) No dilution or modification recommended except item no 7,8 and 1 in HR5 System. 2) The all materials should be procure as per the consumption with respect of the work order. 3) The application should be carried out 		
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			<p>by an approved agency.</p> <p>4) The contractor should provide 5 years material warrantee from the Manufacturer and 5 year warrantee from the applicator or combined</p> <p>5)The all civil work such as cutting (elevated kerb wall with slab), removing cleaning and screed with cement sand and aggregate including all materials and labours should be under the scope of the main contractor / client as per the site condition and our requirement to complete the expansion joint treatment as per the BOQ / Tender document.</p>		
S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
I.SECTION			GLASS MATERIALS (Landing cost – including loading, cost of conveyance & unloading)		
I.SUB- SECTION			PLAIN GLASS PANES		
406	MAT-01052	BMT-I.01	Plain Float Glass 4 mm thick	1 sqm	486
407	MAT-01053	BMT-I.02	Plain Float Glass 5 mm thick	1 sqm	634
408	MAT-01054	BMT-I.03	Plain Float Glass 6 mm thick	1 Sqm	756
409	MAT-01055	BMT-I.04	Plain Float Glass 8 mm thick	1 Sqm	1032
410	MAT-01056	BMT-I.05	Plain Float Glass 10 mm thick	1 Sqm	1150
411	MAT-01057	BMT-I.06	Plain Float Glass 12 mm thick	1 Sqm	1375
II..SUB- SECTION			PIN HEADED GLASS PANES		
412	MAT-01064	BMT-I.13	Pin headed Glass 4 mm thick	1 sqm	370
413	MAT-01065	BMT-I.14	Pin headed Glass 5 mm thick	1 sqm	465
III..SUB- SECTION			TINTED GLASS PANES		
414	MAT-01058	BMT-I.07	Tinted - Bronze/ Green Glass 4 mm thick	1 sqm	599
415	MAT-01059	BMT-I.08	Tinted - Bronze/ Green Glass 5 mm thick	1 sqm	749
416	MAT-01060	BMT-I.09	Tinted - Bronze/ Green Glass 6 mm thick	1 Sqm	900

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
417	MAT-01061	BMT-I.10	Tinted - Bronze/ Green Glass 8 mm thick	1 Sqm	1153
418	MAT-01062	BMT-I.11	Tinted - Bronze/ Green Glass 10 mm thick	1 Sqm	1454
419	MAT-01063	BMT-I.12	Tinted - Bronze/ Green Glass 12 mm thick	1 Sqm	1800
IV..SUB-SECTION			FROSTED/ GROUND GLASS PANES		
420	MAT-01066	BMT-I.15	Frosted / Ground Glass 4 mm thick	1 sqm	575
421	MAT-01067	BMT-I.16	Frosted / Ground Glass 5 mm thick	1 sqm	750
V..SUB- SECTION			TOUGHENED PANES		
422	MAT-01068	BMT-I.17	Toughened Plain Glass 5 mm (including Glass)	1 sqm	810
423	MAT-01069	BMT-I.18	Toughened Plain Glass 6 mm (including Glass)	1 sqm	975
424	MAT-01070	BMT-I.19	Toughened Plain Glass 8 mm (including Glass)	1 sqm	1295
425	MAT-01071	BMT-I.20	Toughened Plain Glass 10 mm (including Glass)	1 sqm	1615
426	MAT-01072	BMT-I.21	Toughened Plain Glass 12 mm (including Glass)	1 sqm	1800
J.SECTION			PAINTS & POLISHES (Landing cost – including loading, cost of conveyance & unloading)		
I.SUB-SECTION			PRIMERS, FILLERS & BASES		
427	MAT-01073	BMT-J.01	Supply of water based Cement Primer of Interior Grade- 1	1 Kg	160
428	MAT-01074	BMT-J.02	Supply of water based Cement Primer of Exterior Grade- 2	1 Kg	200
429	MAT-01104	BMT-J.31	Supply of wall putty of White Cement or Polymer or Cement based	20 Kg	600
430	MAT-01075	BMT-J.03	Supply of Red Oxide Primer Paint for iron works of Grade -1	1 Litre	145
431	MAT-01076	BMT-J.04	Supply of Zinc Chromate Yellow Oxide Primer paint for iron works	1 Litre	200
432	MAT-01077	BMT-J.05	Supply of Wood Primer	1 Litre	160
433	MAT-01078	BMT-J.06	Supply of Metal paste (Putty) for steel works	1 Kg	130
434	MAT-01079	BMT-J.07	Supply of Putty for wood work	1 Kg	130
435	MAT-01080	BMT-J.08	Supply of White Lead	1 Kg	110

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
436	MAT-01081	BMT-J.09	Supply of Synthetic clear Varnish	1 Litre	155
437	MAT-01082	BMT-J.10	Supply of Spirit	1 Litre	96
438	MAT-01083	BMT-J.11	Supply of Linseed Oil	1 Litre	60
439	MAT-01084	BMT-J.12	Supply of thinner for melamine polish/ french polish	1 Litre	140
440	MAT-01085	BMT-J.13	Supply of thinner for Poly-urethane polish	1 Litre	254
441	MAT-01086	BMT-J.14	Supply of French Polish	1 Litre	200
442	MAT-01087	BMT-J.15	Supply of ready made Wax Polish	1 Kg	514
443	MAT-01091	BMT-J.19	Supply of wood adhesive compound	1 Kg	245
444	MAT-01100	BMT-J.27	Supply of anti-corrosive grade - 1 bitumen paint of black colour	1 Litre	470
II.SUB-SECTION			DISTEMPER PAINTS		
445	MAT-01092	BMT-J.20	Supply of Dry Powder Distemper	1 Kg	45
446	MAT-01093	BMT-J.21	Supply of acrylic based Oil Bound washable Distemper	1 Kg	81
447	MAT-01099	BMT-J.26	Supply of paint grade white lime for wash	25 Kg	490
448	MAT-01095	BMT-J.23	Supply of Water proof Cement paint	1 Kg	49
449	MAT-01098	BMT-J.25	Supply of water proof Cement paint pack	25 Kg	1009
III.SUB- SECTION			EMULSION BASED PAINTS		
450	MAT-01097	BMT-J.24	Supply of acrylic emulsion paint interior grade having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1 Litre	190
451	MAT-01107	BMT-J.34	Supply of acrylic emulsion paint exterior grade with silicon additives having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1Lit	210
452	MAT-01108	BMT-J.35	Supply of acrylic emulsion paint weather proof water-based , modified acrylic with silicon additives exterior grade having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1Lit	220
IV.SUB- SECTION			SOLVENT BASED PAINTS		
453	MAT-01094	BMT-J.22	Supply of synthetic polymer luxury plastic emulsion paint of superior grade having VOC (Volatile Organic Compound) content less than 50 grams/	1 Litre	450

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			liter.		
V.SUB- SECTION			OIL BASED ENAMEL PAINTS		
454	MAT-01102	BMT-J.29	Supply of ready mixed Synthetic Enamel paints in all shades Grade - I having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1 Litre	270
455	MAT-01103	BMT-J.30	Supply of ready mixed Synthetic Enamel paints in all shades Grade - II having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1 Litre	180
VI.SUB- SECTION			TEXTURE PAINTS		
456	MAT-01105	BMT-J.32	Exterior Texture.	25 Kg	818
457	MAT-01106	BMT-J.33	Gold line Exterior Texture	25 Kg	1060
VII.SUB-SECTION			SPECIAL PAINTS		
459	MAT-01088	BMT-J.16	Supply of Melamine Polish	1 Litre	325
460	MAT-01089	BMT-J.17	Supply of Interior Grade Poly-Urethane Polish	1 Litre	750
461	MAT-01090	BMT-J.18	Supply of Exterior Grade Poly-Urethane Polish	1 Litre	843
462	MAT-01101	BMT-J.28	Supply of grade-1 aluminium paint	1 Litre	300
463	MAT-05415	BMT-J.36	Acrylic spray plaster in paste form made with specially selected inert mineral fillers, antifungal agents to protect the material the acrylic binding medium used gives good surface adhesion any grade Spray Plaster - Superfine (Interior Grade)	25Kg	500
464	MAT-05416	BMT-J.37	Acrylic coarse spray plaster in paste form made with specially selected inert mineral fillers, antifungal agents to protect the material the acrylic binding medium used gives good surface adhesion interior gradeAcrylic coarse	25Kg	400
465	MAT-05417	BMT-J.38	Supply of acrylic emulsion paint interior premium grade having VOC (Volatile Organic Compound) content less than 50 grams/liter	1 Liter	273
466	MAT-05418	BMT-J.39	Supply of Base coat as primer for natural textures and natural stone based paints - Exterior GradeBASE COAT	1Kg	80
467	MAT-05419	BMT-J.40	Acrylic spray plaster in paste form made with specially selected inert mineral fillers, antifungal agents to	25Kg	1300

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			protect the material the acrylic binding medium used gives good surface adhesion exterior grade Spray Plaster (Exterior)		
468	MAT-05420	BMT-J.41	Supply of acrylic emulsion paint exterior premium grade with silicon additives having VOC (Volatile Organic Compound) content less than 50 grams/liter.Alltimate	1 Liter	310
469		BMT-J.42	Poly-urethane paint	1 Liter	500
K - SECTION			PARTICLE BOARDS (Landing cost – including loading, cost of conveyance, unloading)		
		I.SUB-SECTION	MELAMINE FACED PLAIN PARTICLE BOARDS		
470	MAT-01109	BMT-K.01	Melamine faced Single Deco PPB- 8 mm thick	1Sqm	590
471	MAT-01110	BMT-K.02	Melamine faced Single Deco PPB- 12 mm thick	1Sqm	670
472	MAT-01111	BMT-K.03	Melamine faced Single Deco PPB- 18 mm thick	1Sqm	776
473	MAT-01112	BMT-K.04	Melamine faced Single Deco PPB- 25 mm thick	1Sqm	879
474	MAT-01113	BMT-K.05	Melamine faced Single Deco PPB- 35 mm thick	1 Sqm	1463
475	MAT-01114	BMT-K.06	Melamine faced Twin Deco PPB- 8 mm thick	1 Sqm	679
476	MAT-01115	BMT-K.07	Melamine faced Twin Deco PPB- 12 mm thick	1 Sqm	776
477	MAT-01116	BMT-K.08	Melamine faced Twin Deco PPB-18 mm thick	1 Sqm	898
478	MAT-01117	BMT-K.09	Melamine faced Twin Deco PPB-25 mm thick	1 Sqm	995
479	MAT-01118	BMT-K.10	Melamine faced Twin Deco PPB-35 mm thick	1 Sqm	1869
		II.SUB- SECTION	INSULATING PARTICLE BOARDS		
480	MAT-01119	BMT-K.11	Natural Colour-Insulating Board - 12 mm thick	1 Sqm	242
481	MAT-01120	BMT-K.12	Natural Colour-Insulating Board - 18 mm thick	1 Sqm	358
482	MAT-01121	BMT-K.13	Natural Colour-Insulating Board - 25 mm thick	1 Sqm	414
483	MAT-01122	BMT-K.14	White Insulating Board - 12 mm thick	1 Sqm	268
484	MAT-01123	BMT-K.15	White Insulating Board - 18 mm thick	1	383

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
				Sqm	
485	MAT-01124	BMT-K.16	White Insulating Board - 25 mm thick	1 Sqm	341
III.SUB- SECTION			MEDIUM DENSITY FIBRE BOARD		
486	MAT-01125	BMT-K.17	Medium Fibre Board: Interior Grade - 6 mm thick	1 Sqm	359
487	MAT-01126	BMT-K.18	Medium Fibre Board: Interior Grade - 8 mm thick	1 Sqm	407
488	MAT-01127	BMT-K.19	Medium Fibre Board: Interior Grade - 12 mm thick	1 Sqm	545
489	MAT-01128	BMT-K.20	Medium Fibre Board: Interior Grade - 15 mm thick	1 Sqm	693
490	MAT-01129	BMT-K.21	Medium Fibre Board: Interior Grade - 18 mm thick	1 Sqm	773
491	MAT-01130	BMT-K.22	Medium Fibre Board: Interior Grade - 25 mm thick	1 Sqm	1208
492	MAT-01131	BMT-K.23	Medium Fibre Board: Interior Grade - 30 mm thick	1 Sqm	1460
493	MAT-01132	BMT-K.24	Medium Fibre Board: Interior Grade - 35 mm thick	1 Sqm	1592
494	MAT-01133	BMT-K.25	Medium Fibre Board: Exterior Grade - 6 mm thick	1 Sqm.	488
495	MAT-01134	BMT-K.26	Medium Fibre Board: Exterior Grade - 8 mm thick	1 Sqm.	569
496	MAT-01135	BMT-K.27	Medium Fibre Board: Exterior Grade - 12 mm thick	1 Sqm.	753
497	MAT-01136	BMT-K.28	Medium Fibre Board: Exterior Grade - 15 mm thick	1 Sqm.	946
498	MAT-01137	BMT-K.29	Medium Fibre Board: Exterior Grade - 18 mm thick	1 Sqm.	1059
499	MAT-01138	BMT-K.30	Medium Fibre Board: Exterior Grade - 25 mm thick	1 Sqm.	1411
500	MAT-01139	BMT-K.31	Medium Fibre Board: Exterior Grade - 30 mm thick	1 Sqm.	1758
501	MAT-01140	BMT-K.32	Medium Fibre Board: Exterior Grade - 35 mm thick	1 Sqm.	2077
502	MAT-01141	BMT-K.33	MDF Board: Plain-Interior - 9 mm thick	1 Sqm	346
503	MAT-01142	BMT-K.34	MDF Board: Plain-Interior - 12 mm thick	1 Sqm	393
504	MAT-01143	BMT-K.35	MDF Board: Plain-Interior - 18 mm thick	1 Sqm	487

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
505	MAT-01144	BMT-K.36	MDF Board: Plain-Interior - 25 mm thick	1 Sqm	584
506	MAT-01145	BMT-K.37	MDF Board: Plain-Interior - 30 mm thick	1 Sqm	890
507	MAT-01146	BMT-K.38	MDF Board: Plain-Interior - 35 mm thick	1 Sqm	1053
508	MAT-01147	BMT-K.39	MDF Board: Plain-Exterior - 9 mm thick	1 Sqm	431
509	MAT-01148	BMT-K.40	MDF Board: Plain-Exterior - 12 mm thick	1 Sqm	487
510	MAT-01149	BMT-K.41	MDF Board: Plain-Exterior - 18 mm thick	1 Sqm	639
511	MAT-01150	BMT-K.42	MDF Board: Plain-Exterior - 25 mm thick	1 Sqm	801
512	MAT-01151	BMT-K.43	MDF Board: Plain-Exterior - 30 mm thick	1 Sqm	1053
513	MAT-01152	BMT-K.44	MDF Board: Plain-Exterior - 35 mm thick	1 Sqm	1213
514	MAT-01153	BMT-K.45	MDF Board: Interior-One Side Laminated -9 mm thick	1 Sqm	542
515	MAT-01154	BMT-K.46	MDF Board: Interior-One Side Laminated -12 mm thick	1 Sqm	613
516	MAT-01155	BMT-K.47	MDF Board: Interior-One Side Laminated -18 mm thick	1 Sqm	713
517	MAT-01156	BMT-K.48	MDF Board: Interior-One Side Laminated -25 mm thick	1 Sqm	801
518	MAT-01157	BMT-K.49	MDF Board: Interior-One Side Laminated -30 mm thick	1 Sqm	1158
519	MAT-01158	BMT-K.50	MDF Board: Interior-One Side Laminated -35 mm thick	1 Sqm	1235
520	MAT-01159	BMT-K.51	MDF Board: Exterior-One Side Laminated -9 mm thick	1 Sqm	623
521	MAT-01160	BMT-K.52	MDF Board: Exterior-One Side Laminated -12 mm thick	1 Sqm	700
522	MAT-01161	BMT-K.53	MDF Board: Exterior-One Side Laminated -18 mm thick	1 Sqm	793
523	MAT-01162	BMT-K.54	MDF Board: Exterior-One Side Laminated -25 mm thick	1 Sqm	927
524	MAT-01163	BMT-K.55	MDF Board: Exterior-One Side Laminated -30 mm thick	1 Sqm	1235
525	MAT-01164	BMT-K.56	MDF Board: Exterior-One Side Laminated -35 mm thick	1 Sqm	1312
526	MAT-01165	BMT-K.57	MDF Board: Interior-Both Side Laminated -9 mm thick	1 Sqm	590

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
527	MAT-01166	BMT-K.58	MDF Board: Interior-Both Side Laminated -12 mm thick	1 Sqm	700
528	MAT-01167	BMT-K.59	MDF Board: Interior-Both Side Laminated -18 mm thick	1 Sqm	801
529	MAT-01168	BMT-K.60	MDF Board: Interior-Both Side Laminated -25 mm thick	1 Sqm	1006
530	MAT-01169	BMT-K.61	MDF Board: Interior-Both Side Laminated -30 mm thick	1 Sqm	1235
531	MAT-01170	BMT-K.62	MDF Board: Interior-Both Side Laminated -35 mm thick	1 Sqm	1312
532	MAT-01171	BMT-K.63	MDF Board: exterior-Both Side Laminated -9 mm thick	1 Sqm	666
533	MAT-01172	BMT-K.64	MDF Board: exterior-Both Side Laminated -12 mm thick	1 Sqm	792
534	MAT-01173	BMT-K.65	MDF Board: exterior-Both Side Laminated -18 mm thick	1 Sqm	937
535	MAT-01174	BMT-K.66	MDF Board: exterior-Both Side Laminated -25 mm thick	1 Sqm	1024
536	MAT-01175	BMT-K.67	MDF Board: exterior-Both Side Laminated -30 mm thick	1 Sqm	1296
537	MAT-01176	BMT-K.68	MDF Board: exterior-Both Side Laminated -35 mm thick	1 Sqm	1390
IV.SUB- SECTION			CEMENT BONDED PARTICLEBOARD		
538	MAT-01177	BMT-K.69	Cement bonded particle board conforming to IS 14276- 6 mm thick	1 sqm	255
539	MAT-01178	BMT-K.70	Cement bonded particle board conforming to is 14276- 8 mm thick	1 sqm	338
540	MAT-01179	BMT-K.71	Cement bonded particle board conforming to is 14276- 10 mm thick	1 sqm	395
541	MAT-01180	BMT-K.72	Cement bonded particle board conforming to is 14276- 12 mm thick	1 sqm	493
542	MAT-01181	BMT-K.73	Cement bonded particle board conforming to is 14276- 16 mm thick	1 sqm	624
543	MAT-05423	BMT-K.109	Cement bonded particle board conforming to is 14276- 18 mm thick	1 Sqm	709
544	MAT-01182	BMT-K.74	Cement bonded particle board conforming to is 14276- 20 mm thick	1 sqm	752
545	MAT-01183	BMT-K.75	Cement bonded particle board conforming to is 14276- 25 mm thick	1 sqm	1055
546	MAT-01184	BMT-K.76	Cement bonded particle board conforming to is 14276- 30 mm thick	1 sqm	1265
547	MAT-01185	BMT-K.77	Cement bonded particle board conforming to is 14276- 40 mm thick	1 sqm	1690

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
549	MAT-01186	BMT-K.78	Pre laminated cement bonded particle board-6 mm thick	1 sqm	636
550	MAT-01187	BMT-K.79	Pre laminated cement bonded particle board-8 mm thick	1 sqm	687
551	MAT-01188	BMT-K.80	Pre laminated cement bonded particle board- 10 mm thick	1 sqm	737
552	MAT-01189	BMT-K.81	Pre laminated cement bonded particle board- 12 mm thick	1 sqm	806
553	MAT-01190	BMT-K.82	Pre laminated cement bonded particle board- 16 mm thick	1 sqm	896
554	MAT-01191	BMT-K.83	Cement Bonded Particale DESIGNER BOARD Available Designs 1. Lumber 2. Quadra 3. Murk Standard size 8'X4' 10'X4'- 6mm thick	1 sqm	298
555	MAT-01192	BMT-K.84	Cement Bonded Particale DESIGNER BOARD Available Designs 1. Lumber 2. Quadra 3. Murk Standard size 8'X4' 10'X4'- 8mm thick	1 sqm	359
556	MAT-01193	BMT-K.85	Cement Bonded Particale DESIGNER BOARD Available Designs 1. Lumber 2. Quadra 3. Murk Standard size 8'X4' 10'X4'- 10mm thick	1 sqm	451
557	MAT-01194	BMT-K.86	Cement Bonded Particale DESIGNER BOARD Available Designs 1. Lumber 2. Quadra 3. Murk Standard size 8'X4' 10'X4'- 12mm thick	1 sqm	553
558	MAT-01195	BMT-K.87	Cement Bonded Particale DESIGNER BOARD Available Designs 1. Lumber 2. Quadra 3. Murk Standard size 8'X4' 10'X4'- 16mm thick	1 sqm	729
559	MAT-01196	BMT-K.88	Cement Bonded Board conforming to IS:14862-2000 - 4mm Thick	1 Sqm	168
560	MAT-01197	BMT-K.89	Cement Bonded Board conforming to IS:14862-2000 - 6mm Thick	1 Sqm	240
561	MAT-01198	BMT-K.90	Cement Bonded Board conforming to IS:14862-2000 - 8mm Thick	1 Sqm	309
562	MAT-01199	BMT-K.91	Cement Bonded Board conforming to IS:14862-2000 - 10mm Thick	1 Sqm	355
563	MAT-01200	BMT-K.92	Cement Bonded Board conforming to IS:14862-2000 - 12mm Thick	1 Sqm	444
564	MAT-01201	BMT-K.93	Cement Bonded Board conforming to IS:14862-2000 - 14mm Thick	1 Sqm	472
565	MAT-01202	BMT-K.94	Cement Bonded Board conforming to IS:14862-2000 - 16mm Thick	1 Sqm	564
566	MAT-01203	BMT-K.95	Cement Bonded Board conforming to IS:14862-2000 - 18mm Thick	1 Sqm	608

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
567	MAT-01204	BMT-K.96	Cement Bonded Board conforming to IS:14862-2000 - 20mm Thick	1 Sqm	679
568	MAT-01213	BMT-K.105	ITEM DELETED		
569	MAT-05421	BMT-K.106	50 mm thick SOLID WALL PANEL Sandwich panels made of light weight FRACC non-asbestos fibre reinforced cement concrete	1 Sqm	1043
570	MAT-05422	BMT-K.107	75 mm thick SOLID WALL PANEL Sandwich panels made of light weight FRACC non-asbestos fibre reinforced cement concrete	1 Sqm	1314
			Note: Items BMT-K.97 , BMT-K.98,BMT-K.99,BMT-K.100,BMT-K.101,BMT-K.102,BMT-K.103,BMT-K.104 are removed in the section K and are brought as new items in the Section L as BMT-L.21,BMT-L.22,BMT-L.23,BMT-L.24,BMT-L.25,BMT-L.26,BMT-L.27,BMT-L.28.		
L.SECTION			PLYWOOD (Landing cost – including loading, cost of conveyance, unloading)		
I.SUB- SECTION			MOISTURE RESISTANT (MR) GRADE		
571	MAT-01216	BMT-L.01	3 Ply - 4 mm thick Plywood(IS:303) MR Grade	1 Sqm	370
572	MAT-01217	BMT-L.02	5 Ply - 6 mm thick Plywood(IS:303) MR Grade	1 Sqm	425
573	MAT-01218	BMT-L.03	5 Ply - 8 mm thick Plywood(IS:303) MR Grade	1 Sqm	515
574	MAT-01219	BMT-L.04	5 Ply - 9 mm thick Plywood(IS:303) MR Grade	1 Sqm	510
575	MAT-01220	BMT-L.05	9 Ply - 12 mm thick Plywood(IS:303) MR Grade	1 Sqm	640
576	MAT-01221	BMT-L.06	9 Ply - 15 mm thick Plywood(IS:303) MR Grade	1 Sqm	910
577	MAT-01222	BMT-L.07	9 Ply - 18 mm thick Plywood(IS:303) MR Grade	1 Sqm	957
II.SUB- SECTION			BOILING WATER RESISTANT (BWR)GRADE		
578	MAT-01223	BMT-L.08	3 Ply - 4 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	450
579	MAT-01224	BMT-L.09	5 Ply - 6 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	540
580	MAT-01225	BMT-L.10	5 Ply - 8 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	670
581	MAT-01226	BMT-L.11	5 Ply - 9 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	630

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
582	MAT-01227	BMT-L.12	9 Ply - 12 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	829
583	MAT-01228	BMT-L.13	9 Ply - 15 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	1100
584	MAT-01229	BMT-L.14	9 Ply - 19 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	1130
III.SUB- SECTION			VENEERED DECORATIVE PLYWOOD		
585	MAT-01230	BMT-L.15	3 Ply-4 mm thick One side Teak Veneer Decorated Plywood (IS:1328)	1 Sqm	650
586	MAT-01231	BMT-L.16	5 Ply - 6 mm thick One side Teak Veneer Decorated Plywood (IS:1328)	1 Sqm	745
587	MAT-01232	BMT-L.17	5 Ply - 9 mm thick One side Teak Veneer Decorated Plywood (IS:1328)	1 Sqm	920
588	MAT-01233	BMT-L.18	9 Ply - 13 mm thick One side Teak Veneer Decorated Plywood (IS:1328)	1 Sqm	1370
589	MAT-01234	BMT-L.19	5 Ply - 9 mm thick Both sides Teak Veneer Decorated Plywood (IS:1328)	1 Sqm	1400
590	MAT-01235	BMT-L.20	9 Ply - 12 mm thick Both sides Teak Veneer Decorated Plywood (IS:1328)	1 Sqm	1550
IV.SUB- SECTION			LAMINATES		
591	MAT-01205	BMT-L.21	Laminate Sheets - Glossy Finish: 1 mm thick	1 Sqm	380
592	MAT-01206	BMT-L.22	Laminate Sheets - Glossy Finish: 1.50 mm thick	1 Sqm	565
593	MAT-01207	BMT-L.23	Laminate Sheets - Glossy Finish: 1.80 mm thick	1 Sqm	620
594	MAT-01208	BMT-L.24	Laminate Sheets - Mat Finish: 1 mm thick	1 Sqm	400
595	MAT-01209	BMT-L.25	Laminate Sheets - Mat Finish: 1.50 mm thick	1 Sqm	550
596	MAT-01210	BMT-L.26	Laminate Sheets - Mat Finish: 1.80 mm thick	1 Sqm	590
V.SUB- SECTION			COMMERCIAL VENEERS		
597		BMT-L.27	Teak Veneer Lamination - 4 mm thick - Pencil Grains	1 Sqm	470
598		BMT-L.28	Teak Veneer Lamination - 4 mm thick - Natural Grains	1 Sqm	825
		BMT-L.29	Providing Wood Polymer Composite (WPC) solid, frostywhite single extruded factory made 2.44 mt x 1.22 mt boards in		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
599	MAT-05424	BMT-L.29.A	6 MM thickness (Density 550 kg/Cum, Weight 9.5Kg)	sqmt	699
600	MAT-05425	BMT-L.29.B	11 MM thickness (Density 500 kg/Cum, Weight 16.5Kg)	sqmt	1150
601	MAT-05426	BMT-L.29.C	18 MM thickness (Density 650 kg/Cum, Weight 35Kg)	sqmt	2145
M.SECTION			CEILINGS, WALL PARTITIONS & WALL LININGS		
I.SUB-SECTION			FALSE CEILINGs- TILES / SHEETS		
602	MAT-01236	BMT-M.01	Gypsum Board tiles of size notless than 0.595 M x 0.595 M of 12.5 mm thick as per IS 2095 -1992	1 Sqm	275
603	MAT-01237	BMT-M.02	Gypsum Board tiles of size notless than 0.595 M x 0.595 M of 9 mm thick as per IS 2095 -1992	1 Sqm	270
604	MAT-01238	BMT-M.03	Gypsum Board Plain sheet 12.5 mm thick as per IS 2095 -1993	1 Sqm	221
605	MAT-01263	BMT-M.28	14 mm - Mineral Fiber sheet 600 x 600 of Board / Tegular Edge tiles with a Humidity Resistance of 80% RH, Average NRC 0.50, Light Reflectance >80%, Thermal Conductivity $\lambda = 0.052$ to 0.057 w/mk, Fire Performance Class 0/Class 1	1 Sqm	599
606	MAT-01264	BMT-M.29	15 mm - Mineral Fiber sheet 600 x 600 of Board / Tegular Edge tiles with a Humidity Resistance of 90% RH, Average NRC 0.50, Light Reflectance >80%, Thermal Conductivity $\lambda = 0.052$ to 0.057 w/mk, Fire Performance Class 0/Class 1	1 Sqm	722
607	MAT-01265	BMT-M.30	16 mm - Tegular Edge 600 x 600 of Board / Tegular/ Micro look Edge tiles with a Humidity Resistance of 99% RH, Average NRC 0.60, Light Reflectance >88%, Thermal Conductivity $\lambda = 0.052$ to 0.057 w/mk, Fire Performance Class 0/Class 1	1 Sqm	725
608	MAT-01266	BMT-M.31	12 mm - Mineral Fiber sheet 600 x 600 (Square / Tegular) Edge tiles	1 Sqm	467
609	MAT-01271	BMT-M.36	Supply of Thermocole 12 mm thick sheets	1 Sqm	32
610	MAT-01272	BMT-M.37	Supply of Thermocole 19 mm thick sheets	1 Sqm	52
611	MAT-01275	BMT-M.40	Calcium Silicate Boards - 6mm thick	1 Sqm	270

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
612	MAT-01276	BMT-M.41	Calcium Silicate Boards - 8mm thick	1 Sqm	360
613	MAT-01277	BMT-M.42	Calcium Silicate Boards - 10mm thick	1 Sqm	450
614	MAT-01278	BMT-M.43	Calcium Silicate Boards - 12mm thick	1 Sqm	539
615	MAT-01286	BMT-M.51	Supplying and fixing of false ceiling using Plaster of paris Boards 12 mm thick with standard GI ceiling angles, sections perimeter channels including cost and conveyance of all materials and labour charges etc complete	1 Sqm	425
616	MAT-01287	BMT-M.52	Supplying and fixing of false ceiling using Plaster of paris Boards 10 mm thick with standard GI ceiling angles, sections perimeter channels including cost and conveyance of all materials and labour charges etc complete	1 Sqm	353
617	MAT-01288	BMT-M.53	Designer ceiling Cement Boards - thickness 3.2 mm	1 Sqm	221
618	MAT-01289	BMT-M.54	High pressure steam cured Cement Boards 4 mm thick	1 Sqm.	136
619	MAT-01290	BMT-M.55	High pressure steam cured Cement Boards 6 mm thick	1 Sqm.	204
620	MAT-01291	BMT-M.56	High pressure steam cured Cement Boards 8 mm thick	1 Sqm.	270
621	MAT-01292	BMT-M.57	High pressure steam cured Cement Boards 10 mm thick	1 Sqm.	340
622	MAT-01293	BMT-M.58	High pressure steam cured Cement Boards 12 mm thick	1 Sqm.	407
623	MAT-01294	BMT-M.59	High pressure steam cured Cement Boards 14 mm thick	1 Sqm.	474
624	MAT-01295	BMT-M.60	High pressure steam cured Cement Boards 16 mm thick	1 Sqm.	542
625	MAT-01296	BMT-M.61	High pressure steam cured Cement Boards 18 mm thick	1 Sqm.	610
626	MAT-01297	BMT-M.62	High pressure steam cured Cement Boards 20 mm thick	1 Sqm.	677
627	MAT-01298	BMT-M.63	High pressure steam cured designer Cement Boards 4 mm thick	1 Sqm.	199
628	MAT-01299	BMT-M.64	High pressure steam cured designer Cement Boards 6 mm thick	1 Sqm.	287
629	MAT-01305	BMT-M.70	Supply and fixing of CEMENT BONDED PARTICLE BOARDS (IS 14276) false ceiling using 8MM CEMENT BONDED PARTICLE BOARDS with galvanized	1 Sqm	1063

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			and pre painted steel T section of size 24mm x 38mm x 0.3 mm for main T duty pre punched to accept cross T section of size 24mm x 30mm x 0.3 mm duly punched at both ends for insertion into main T. The grid size will be 610mm x 610mm. The frame work (grid) is suspended to the roof by using G.I flat of 0.60mm or 14-gauge G.I wire with necessary fixers to the roof and frame work. CEMENT BONDED PARTICLE BOARDS lay on the grid. The cost inclusive of necessary hardware, labor, one coat of primer (Both side) and two coats of smooth finish on visible side.		
630	MAT-01314	BMT-M.79	Providing and fixing false ceiling consisting of 600mmX600mm, Solid PVC insulation panels having wall thickness of 1mm thick plain PVC rigid foam sheet and EPS as defined in of desired thickness depending on insulation required shall be insert in a frame work made using anodized aluminium Tee section of sizes 1"X1" (25X25mm, 19 gauge or 1mm thick) in square pattern of grid sizes of 2'X2' (600X600mm). The aluminium framework is supported from the ceiling with the help of G.I. hook and G.I. wire/6mm.M.S. rods of required sizes to maintain proper level etc. the aluminium framework is supported on side wall with the use of aluminium 1"X1" (25X25mm) angles, complete as per direction of Engineer-in-Charge, manufacture's specification & drawing	1 sqm	1356
631	MAT-01315	BMT-M.80	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 13 mm thick Square Edge - Fissura Fine Model	1 Sqm	353
632	MAT-01316	BMT-M.81	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 13 mm thick Square Edge - Speckle Model	1 Sqm	359
633	MAT-01317	BMT-M.82	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 13 mm thick Square Edge - Textura Model	1 Sqm	397
634	MAT-01318	BMT-M.83	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 15 mm thick Standard Regular Edge	1 Sqm	435
635	MAT-01319	BMT-M.84	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 15 mm thick Fissura Fine Model	1 Sqm	518

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
636	MAT-01320	BMT-M.85	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 15 mm thick Speckle Model	1 Sqm	579
637	MAT-01321	BMT-M.86	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 15 mm thick Textura Model	1 Sqm	861
638	MAT-01322	BMT-M.87	Supply and fixing of PVC false ceiling on MS/GI made skeleton framework. The frame shall be 24 X 48mm MS tube section fixed along with the wall. The entire frame work shall be concealed with PVC section having overall dimensions of 6 X 250mm with a wall thickness of 1mm ± 0.3mm with tongue and groove system, provided with necessary arrangements for electrical connections, complete, for finished item of work.	1 Sqm.	1504
639		BMT-M.96	<p align="center">Absorptive false ceiling</p> <p>Supply and installation of 12.5mm thick micro perforated gypsum plaster board of 3mm square perforations (minimum 13% of perforated area) backed with 50mm thick 1000 GSM polyester wool</p> <p>Construction of Frame work: Frame work shall consists of GI perimeter channels of size 0.55mm thick (having one flange of 20mm and another flange of 30mm) fixed along with perimeter of the beam or walls with the help of nylon sleeves and screws at 600mm c/c. Then suspend GI main channels of size 45 mm (0.9mm thick with 2 flanges of 15mm each) from the soffit at 1200mm c/c by using soffit angle of size 25mm x 10mm x 0.55mm thick fixed to true ceiling by using suitable fasteners. Cross channels of size 0.55mm thickness having knurled web of 51.5mm and two flanges of 26mm each with lips of 10.5mm are then fixed to the main channel with the help of connecting clips and in a direction perpendicular to the main channel at 300mm c/c</p> <p>Cavity Filling: Ceiling frame work shall be back lined by using polyester wool having density of 1000 GSM and 50mm thick</p> <p>Boarding:</p>	1 Sqm.	2250

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			<p>A layer of 12.5mm thickness fiber reinforced micro perforated gypsum plaster board of size 1200 x 2400 mm having perforations of minimum of 13% is fixed on to frame work. Micro perforated gypsum boards used shall have RH 90% and fire rating A2-s1, d0</p> <p>Finishing: Ensure that board is fixed in plumb level, screw fix gypsum plaster board to channel, cover screw with compound and sand the surface. Joints of gypsum plaster board to be finished by using jointing tapes and compound. Final finishing is done with two coats of acrylic emulsion paint.</p>		
640		BMT-M.97	<p>Reflective false ceiling</p> <p>Supply and installation of 12.5mm thick plain gypsum plaster board</p> <p>Construction of Frame work:</p> <p>Frame work shall consists of GI perimeter channels of size 0.55mm thick (having one flange of 20mm and another flange of 30mm) fixed along with perimeter of the beam or walls with the help of nylon sleeves and screws at 600mm c/c. Then suspend GI main channels of size 45 mm (0.9mm thick with 2 flanges of 15mm each) from the soffit at 1200mm c/c by using soffit angle of size 25mm x 10mm x 0.55mm thick fixed to true ceiling by using suitable fasteners. Cross channels of size 0.55mm thickness having knurled web of 51.5mm and two flanges of 26mm each with lips of 10.5mm are then fixed to the main channel with the help of connecting clips and in a direction perpendicular to the main channel at 300mm c/c.</p> <p>Boarding:</p> <p>A layer of 12.5mm thickness Plain gypsum plaster board of size 1200 x 2400mm having minimum density 550kg/m3 is fixed on to frame work.</p> <p>Finishing:</p> <p>Ensure board is in plumb level, screw fix gypsum plaster board to channel, cover screw with compound and sand the surface. Joints of gypsum plaster board to be finished by using jointing tapes and compound. Final finishing is done with two coats of acrylic emulsion paint.</p>	1 Sqm	3170

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
II.SUB- SECTION			FALSE CEILINGs- SECTIONS &ACCESSORIES		
641	MAT-01239	BMT-M.04	G.I. Ceiling Angle - 25 mm x 10 mm x 0.55 mm	1 RM	78
642	MAT-01240	BMT-M.05	G.I. Ceiling Section 51.5 mm x 26 mm x 10.5 mm x 0.55 mm thick	1 RM	106
643	MAT-01241	BMT-M.06	G.I. Intermediate Section 45 mm x 15 mm x 15 mm x 0.9 mm	1 RM	78
644	MAT-01242	BMT-M.07	G.I. Perimeter Channel - 20 mm x 27 mm x 30 mm (web) of 0.55 mm thick	1 RM	69
645	MAT-01243	BMT-M.08	G.I.-Precoated Fine line Grid 25 mm x 25 mm x 0.7 mm	1 RM	62
646	MAT-01244	BMT-M.09	G.I.-Precoated Fine line Grid 15 mm x 25 mm x 0.7 mm	1 RM	55
647	MAT-01245	BMT-M.10	GI - Precoated - T-Sec- 24 mm x 38 mm x 0.7 mm thick	1 RM	60
648	MAT-01246	BMT-M.11	Hot dipped GI Angle - Precoated - Grid: 19 mm x 19 mm	1 RM	37
649	MAT-01247	BMT-M.12	Polyester painted GI - T Section - 24 x 32 mm	1 RM	52
650	MAT-01248	BMT-M.13	Polyester painted GI - T Section - 24 x 25 mm	1 RM	48
651	MAT-01249	BMT-M.14	Polyester painted GI - T Section - 24 mm x 27 mm	1 RM	49
652	MAT-01250	BMT-M.15	Aluminium Angle : 24 mm x 24 mm	1 RM	33
653	MAT-01251	BMT-M.16	Anodised Aluminium T Section : 24 x 24.5 x 2.4 mm	1 RM	32
654	MAT-01252	BMT-M.17	Connecting Clips	1 Each	10

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
655	MAT-01253	BMT-M.18	Rawl Plug	1 Each	4
656	MAT-01254	BMT-M.19	6 mm Nylon Rawl Plug	1 Each	4
657	MAT-01255	BMT-M.20	Soffit Cleats	1 Each	5
658	MAT-01256	BMT-M.21	Drywall Screws - 25 mm	1 Each	4
659	MAT-01257	BMT-M.22	Jointing Compound	1 Kg	32
660	MAT-01258	BMT-M.23	Jointing Paper Tape	1 RM	6
661	MAT-01259	BMT-M.24	Drywall Top Coat	1 Litre	150
662	MAT-01260	BMT-M.25	Universal Holding Clips	1 Each	4
663	MAT-01261	BMT-M.26	4 mm Dia GI Connecting Rod	1 RM	15
664	MAT-01262	BMT-M.27	2 mm Dia GI Connecting Rod	1 RM	10
III.SUB- SECTION			WALL PANELLS & WALL LININGS		
665	MAT-01274	BMT-M.39	Providing wooden panelling 12 mm thick one side laminated sheet fixed on wooden frame of BT wood size 50.8 mm x 25.4 mm (2"x1") at distance of 609.6mm (2'-0") intervals of both ways providing 3/4" x 1/2" (19.05 mm x 12.7 mm) size BT wood ornamental cover beading and necessary screws, fevicol glue complete for finished item of work.	1 Sqm	1616
666	MAT-01267	BMT-M.32	Perforated wall panels channeled wood works sheets of width 128 mm, thickness of 16mm and length 2440 mm made of a high density particle board substrate with a laminated facing as per the approved shade /Species & Finish and a melamine balancing layer on the reverse side, with a special perforation pattern fluted perforation on the visible surface with a minimum sag resistance of RH90 and a fire rating class of 1 as per Part 7 of BS 476 with a "tongue-and-grooved" edges and the back of the perforated panel is with sound absorbing non-woven acoustical fleece	1 Sqm	2600
667	MAT-01300	BMT-M.65	Supply and fixing of wall panelling (water, fire and Termite proof) with frame work made of GI stud profile of size 48 x 40x10 x 0.6 mm thick placed	1 Sqm.	1000

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			at every 610 mm C/C intervals fixed vertically in between floor and roof 'U' track of size 50 x 30 x 0.6 mm thick duly fixed with self expansion screws and with 8 mm thick E-board / 6 mm thick E-board classic cladded around with self tapping self embedding screws fixed at every 300 mm (centres) leaving a 3 mm gap between two panels of width 2'-0". The Gap will be covered with a decorative beading. Surface will be given a smooth finish over a coat of primer. - With 8 mm Designer CEMENT BONDED BOARD		
668	MAT-01301	BMT-M.66	ITEM DELETED		
669	MAT-01306	BMT-M.71	Supply and fixing CEMENT BONDED PARTICLE BOARDS(IS 14276) wall paneling using 10 MM CEMENT BONDED PARTICLE BOARDS with frame work made of GI stud section of size 48mm x 35mm x 0.55mm thick placed at every 610 mm C/C intervals vertically and at 1200mm internals horizontally fixed to the wall by means of self expansion screws and caps. CEMENT BONDED PARTICLE BOARDS is to be fixed to frame by means of self taping screws placed at every 300 mm intervals leaving 3mm gap between two panels. The cost inclusive of one coat o primer and two coats of smooth finish and cost & conveyance of all materials, labor charges etc. complete as per the direction of Engineer in charge.	1 Sqm	1335
670	MAT-01309	BMT-M.74	Supply and fixing of CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS wall paneling using 12 MM CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS with frame work made of G.I stud section of size 48mm x 35mm x 0.55mm thick placed at every 610mm intervals vertically and at 1200mm internals horizontally fixed to the wall by means of self expansion screws and caps. LAM is to be fixed to frame by means of self-taping screws placed at every 300mm intervals leaving 3mm gap between two panels. The cost inclusive of Conveyance of materials, Labor charges etc., complete as per the direction of Engineer in charge	1 Sqm	1865
671	MAT-01312	BMT-M.77	Providing and fixing INSULATED PVC	1 Sqm	1950

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			<p>WALL PANELING shall consist of PVC insulated panels having wall thickness of 1mm /1.5mm/2mm PVC sheet and the desired thickness of EPS (dependent on the insulation required) screwed into the wall using screws of adequate length. The screws shall be placed at a distance of 150mm and shall be 25mm from the edge of the insulated panel on all from sides of the panel. The PVC strips of 5mm thick PVC sheet of width 75mm feathered at the edges shall be stuck using solvent cement adhesive at the places where two panels are joined, so as to cover the screw of both the panels, using solvent cement. 90 heat bent strips of 5mm thick PVC sheets of width 75mm X75mm feathered at the edges shall be stuck at wall joints / pillars etc. , complete as per direction of Engineer-in-Charge, manufacture's specification & drawing</p>		
672	MAT-01313	BMT-M.78	<p>Providing and fixing plain PVC rigid foam sheet wall panelling of thickness 5mm consisting of panels having size 1220mm X2440mm stuck on inner frame work of 25mm wide strips of 5mm thick PVC rigid foam sheet. The strips should have in their centre a groove of 6mm width and 2mm depth for sinking the head of the screw used to fix the strips to the wall and should be placed vertically at equal intervals of 405/407mm centre to centre. The PVC strips shall be fixed to the wall using 65mm long M.S. screws through the groove in the strip by using PVC fasteners. The distance between two screws shall not be more than 300mm. a groove of 2mm may be left at the joint of two panels for aesthetic looks. This framework is done for making existing wall surface in ensured level and for sticking the wall panelling sheet (panel) on it. The exact size of the panel and correspondingly of the grid May be varied depending on the size of the wall. However it must be ensured that a strips of 5mm thick PVC sheet of width 75mm feathered at the edges shall be stuck at the places where two panels are joined, using solvent cement. , complete as per direction of Engineer-in-Charge,</p>	1 Sqm	1853

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-22 (Rs.)
1		2	3	4	5
			manufacture's specification & drawing		
673	MAT-01323	BMT-M.88	Supply and fixing of wall panelling on the framework of wooded rippers of 24 X 24mm of required size. The entire framework shall be panelled with PVC section having overall dimensions of 6 X 250mm with a wall thickness of 1mm ± 0.3mm. The panels are joined with tongue and groove system. Necessary cut-outs for electrical connections to be provided at required places complete, for finished item of work.	1 Sqm.	1425
			Supply and fixing of wall lining fixing to GI channels of perimeter channel 30mm x 27mm x 0.55 thick and ceiling channels of 51.1mm x 26mm x 10.5mm x 0.55mm thick and fixing and finishing using joint compound and glass fibre tape complete finish as per specification without painting for finished item of work:		
674	MAT-01282	BMT-M.47	A) using 8mm thick Calcium silicate boards	1 Sqm	807
675	MAT-01283	BMT-M.48	B) Using 10mm thick Calcium silicate boards	1 Sqm	889
676	MAT-01284	BMT-M.49	C) Using 12mm thick Calcium silicate boards	1 Sqm	971
677	MAT-05430	BMT-M.95	Providing and fixing in position wall panelling to all heights with eco friendly light weight calcium silicate panels/tiles Globe Design of size 595mm x 595mm having square/butt edge having NRC(Noise Reduction Coefficient) of 0.5 to 0.75 as per IS 8225:1987, Light reflectance of 85%(minimum), Non Combustible as per BS:476 (part-4), fire performance as per BS:476 (part-6&7), humidity resistance of 100% and thermal conductivity < 0.043 W/m K as per ASTM 518:1991, comprising of a frame made from especially fabricated galvanised mild steel sheet 0.50 mm thick pressed section (galvanizing @120 grams per sqm including both sides) i.e.vertical studs of size 48 x 34 x 36 mm are placed at 600mm center to center in a floor and ceiling channel section of size 50 x 32m fixed to the floor and soffit at 600mm centers using 12mm dia,50mm long wedge type expanded zinc alloy dash fastner with 10mm bolt. Glasswool of 50mm	1 Sqm	2155

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			<p>thickness is then to be inserted in the slots and finally calcium silicate non combustible panels/tiles are to be screwfixed with self tapping pan head nickel coated mild steel screws of size 13 x 3.2mm on to this grid leaving an even groove of 1 mm between the panels.</p> <p>The joints between the panels are to be duly jointed and finished using recommended jointing calcium silicate based compound & fiber joint tape roll 50mm wide (90 metre)roll and two coats of primer suitable for panelling as per manufacturer's specification as per direction of Engineer-in-Charge all complete.(With 15 mm thick integral densified fully perforated light weight calcium silicate panels/tiles)</p>		
678		BMT-M.98	<p>Wall-Absorptive wall panelling</p> <p>Supply and installation of 17mm thick micro perforated wood having 2mm perforation and 8mm pitch backed with polyester wool of density 1000GSM x 50mm thick with Laminared finish</p> <p>Construction of Frame work: Frame work consists of 25mm thick GI wall channels with fully knurled surface of 0.55mm thick 80mm width, having two equal flanges of 26mm. A GI wall channel is fixed to the walls in horizontal direction with the help of suitable fastners at 600mm c/c then another 25mm thick GI wall channel is fixed vertically over the horizontally laid wall channel at 600mm c/c</p> <p>Cavity Filling: The frame work shall be back lined by using polyester wool having a density of 1000 GSM and 50mm thick</p> <p>Boarding: 17mm thick micro perforated wood having 2mm perforation and 8mm pitch is fixed on the frame work.</p> <p>Finishing: Ensure board is in plumb level and screw heads to be covered with compound and sand the surface. The screws are painted with manufacturer supplied paint matching the colour of the board/panel. The finishing of board is of veneer finish.</p>	1 Sqm	4580

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
679		BMT-M.99	<p>Wall-Reflective wall panelling Supply and installation of 12 mm thick B.W.P ply finished with 1 mm thick laminate on all visible sides backed with 50mm thick 1000 GSM polyester wool insulation</p> <p>Construction of Frame work: Frame work consists of minimum 50mm GI stud with fully knurled surface of 0.55 mm thick, 50mm width and two equal flanges of 34mm is fixed on to the GI support made of required height, First the wall plate is fixed on to the wall using suitable fasteners at every 1200mm C/C in both the directions and an MS hollow box section of 40mmx40mm with 5mm thick is welded to the wall plate, this is used to give the support to the MS gride of 600mmx600mm which is placed at a distance of 480mm from the wall.</p> <p>Cavity Filling: The frame work shall be back lined by using polyester fiber having a density of 1000 GSM and 50mm thick held in position by using GI weld mesh</p> <p>Boarding: 12mm thick Laminated plywood (8mm plywood and 1mm laminate) of approved finish is then fixed to GI frame work by using suitable fasteners and ensure proper level of the panel surface.</p> <p>Finishing: Ensure plywood is in plumb level and finish by using laminate of approved shade and colour</p>	1 Sqm	880
680			<p>Supply and installation of 17mm thick micro perforated wood having 2mm perforation and 8mm pitch backed with polyester wool of density 1000GSM x 50mm thick with Laminated finish</p> <p>Construction of Frame work: Frame work consists of 25mm thick GI wall channels with fully knurled surface of 0.55mm thick 80mm width, having two equal flanges of 26mm. A GI wall channel is fixed to the walls in horizontal direction with the help of suitable fasteners at 600mm c/c then an another 25mm thick GI wall channel is fixed vertically over the horizontally laid wall channel at</p>	1 Sqm	5200

			<p>600mm c/c. Cavity Filling: The frame work shall be back lined by using polyester wool having a density of 1000 GSM and 50mm thick. Boarding; 17mm thick micro perforated wood having 2mm perforation and 8mm pitch is fixed on the frame work.</p> <p>Finishing : Ensure board is in plumb level and screw heads to be covered with compound and sand the surface.</p> <p>The screws are painted with manufacturer supplied paint matching the color of the board/panel. The finishing of board is of veneer finish.</p> <p>Note : 1. Vendors to submit all test certificates (Acoustics and fire),2. Refer drawings for over all depth of the system</p>		
			<p>Supply and installation of 12 mm thick B.W.P ply finished with 1 mm thick laminate on all visible sides backed with 50mm thick 1000 GSM polyester wool insulation. Construction of Frame work : Frame work consists of minimum 50mm GI stud with fully knurled surface of 0.55 mm thick, 50mm width and two equal flanges of 34mm is fixed on to the GI support made of required height, First the wall plate is fixed on to the wall using suitable fasteners at every 1200mm C/C in both the directions and an MS hallow box section of 40mmX40mm with 5mm thick is welded to the wall plate, this is used to give the support to the MS gride of 600mmX600mm which is placed at a distance of 480mm from the wall. Cavity Filling : The frame work shall be back lined by using polyester fiber having a density of 1000 GSM and 50mm thick held in position by using GI weld mesh</p> <p>Boarding : 12mm thick Laminated plywood (8mm plywood and 1mm laminate) of approved finish is then fixed to GI frame work by using suitable fasteners and ensure proper level of the panel surface.Finishing : Ensure plywood is in plumb level and finish by using laminate of approved shade and color</p>	1 Sqm	3600
681		BMT-M.100	<p>Supply and fixing of 50 mm Thick wall panels (sandwich wall panels) with 5 mm thick Cement bonded particle boards Facings and light weight EPS concrete core materials</p>	1 Sqm	887
682		BMT-M.101	<p>Supply and fixing of 75 mm Thick wall panels (sandwich wall panels) with 5 mm thick Cement bonded particle boards Facings and light weight EPS concrete core materials</p>	1 Sqm	1332

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
683		BMT-M.102	Supply and fixing of Pre-Laminated Cement Bonded Particle Board (Bison Lam) Conformir 15786 - 18 Mm Thick	1 Sqm	1081
684		BMT-M.103	Supply & erection of open shelves using cement bond particle board (Bison Panel) conforming to IS 14276 with 20mm thick t for sides & shelves, 8mm back liner with 15 "depth, Each shelf height 12" to 15" with all hardware screws & nails	1 Sqm	1997
		IV	PARTITIONS		
685	MAT-01273	BMT-M.38	Supply & fixing 75mm thick metal stud partition using 12.5 mm thick Gypboard conforming to IS 2095-1982 screw fixed to either side to 48 mm studs of 0.55 mm thick with the 50 mm floor and ceiling channel 0.55 mm and the joints duly finished with joint compound, papertape and two coats Dry wall top coat as per specification.	1 Sqm	1107
686	MAT-01279	BMT-M.44	Supply and Fixing 66mm thick metal stud partition screw fixed to either side of 48mm studs of 0.55mm thick with 50mm floor and ceiling channel 0.55mm and the joints duly finished with joining compound, glass fibre tape and two coats dry wall top coat as per specification finished Item of work- using 8mm thick Calcium silicate boards	1 Sqm	1269
687	MAT-01280	BMT-M.45	Supply and Fixing 66mm thick metal stud partition screw fixed to either side of 48mm studs of 0.55mm thick with 50mm floor and ceiling channel 0.55mm and the joints duly finished with joining compound, glass fibre tape and two coats dry wall top coat as per specification finished Item of work - Using 10mm thick Calcium silicate boards	1 Sqm	1380

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
688	MAT-01281	BMT-M.46	Supply and Fixing 66mm thick metal stud partition screw fixed to either side of 48mm studs of 0.55mm thick with 50mm floor and ceiling channel 0.55mm and the joints duly finished with joining compound, glass fibre tape and two coats dry wall top coat as per specification finished Item of work - Using 12mm thick Calcium silicate boards	1 Sqm	1600
689	MAT-01285	BMT-M.50	Supply and Fixing 66mm thick metal stud partition using 2 layers of 12mm thick Calcium silicate boards screw fixed to either side to 48mm studs of 0.55mm thick with 50mm floor and ceiling channel 0.55mm. The boards joints are to be staggered to avoid through passage. Ceramic wool of 50mm thick, 64kg/m ³ density is to be placed in cavity of the partition. The joints duly finished with joining compound, glass fibre tape and two coats dry wall top coat as per specification with out painting for finished item of work	1 Sqm	3900
690	MAT-01285	BMT-M.50	Supply and Fixing 66mm thick metal stud partition using 2 layers of 12mm thick Calcium silicate boards screw fixed to either side to 48mm studs of 0.55mm thick with 50mm floor and ceiling channel 0.55mm. The boards joints are to be staggered to avoid through passage. Ceramic wool of 50mm thick, 64kg/m ³ density is to be placed in cavity of the partition. The joints duly finished with joining compound, glass fibre tape and two coats dry wall top coat as per specification with out painting for finished item of work	1 Sqm	3900

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
691	MAT-01302	BMT-M.67	Supply and fixing double skin CEMENT BOARD partition with Frame work made of GI stud profile of size 48 x 40 x 10 x 0.6 mm thick placed at every 610 mm C/C intervals and 915 mm horizontal intervals duly fixed with self expansion screws, the E-board of 8 mm thick cladded around with self tapping self embedding screws fixed at every 300 mm (centres) leaving 3 mm gap between two panels of width 2'-0" (610 mm). The gap will be covered with decorative moulding surface will be given a smooth finish over cement primer. The rate is inclusive of cost and conveyance of all materials and labour charges etc. complete.	1 Sqm.	1806
692	MAT-01303	BMT-M.68	Providing and fixing of 50mm thick SOLID WALL PANEL Sandwich panels made of light Weight FRACC two 4mm thick non-asbestos fibre reinforced cement sheets on either side of the lightweight concrete core composed of Portland cement binders with tongue and groove arrangement. The bottom of the panel shall be fixed to the floor channel made up of 1 mm thick GI channels of size 14x50x25 mm fixed to the existing floor with 6x60mm nylon self expansion screws at 600 mm C/C and top of the panel fixed with ceiling channel made out of 1mm thick GI Channel of size 38x50x38mm duly fixed to the existing ceiling with 6x60mm nylon self expansion screws at 600 mm C/C. All the tongue and groove joints of the panels have to be properly cleaned and both the panels have to be fixed by applying the mixture of fly ash and sodium silicate in between and Everest jointing compound all the exposed joints. The rate includes cost of 50mm SOLID WALL PANELS, G.I. Floor and ceiling channel. The panels can be flushed by using paper tape and Everest jointing compound all complete	1 sqm	1650

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
693	MAT-01304	BMT-M.69	Providing and fixing of 75mm thick SOLID WALL PANEL Sandwich panels made of light Weight FRACC two 4mm thick non-asbestos fibre reinforced cement sheets on either side of the lightweight concrete core composed of Portland cement binders with tongue and groove arrangement. The bottom of the panel shall be fixed to the floor channel made up of 1 mm thick GI channels of size 14x75x25 mm fixed to the existing floor with 6x60mm nylon self expansion screws at 600 mm C/C and top of the panel fixed with ceiling channel made out of 1mm thick GI Channel of size 38x75x38mm duly fixed to the existing ceiling with 6x60mm nylon self expansion screws at 600 mm C/C. All the tongue and groove joints of the panels have to be properly cleaned and both the panels have to be fixed by applying the mixture of fly ash and sodium silicate in between and Everest jointing compound all the exposed joints. The rate includes cost of 75mm SOLID WALL PANEL panels, G.I. Floor and ceiling channel. The panels can be flushed by using paper tape and Everest jointing compound all complete.	1 Sqm.	2100
694	MAT-01307	BMT-M.72	Supply and fixing CEMENT BONDED PARTICLE BOARDS (IS 14276) double skin partition using with 10 MM CEMENT BONDED PARTICLE BOARDS made out of G.I. track section of size 50mmx 35mm x 0.55 mm for fixing to the roof and floor and stud section of size 48mm x 35mm x 0.55mm placed in track section vertically at 610mm intervals and at 1200mm intervals horizontally fixed to the wall by means of self expansion screws and	1 Sqm	1818

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			caps to the wall and roof. CEMENT BONDED PARTICLE BOARDS is to be fixed both sides of frame work by using self taping screws fixed at every 300mm intervals to the frame work leaving 3 mm gap between two panels. The cost inclusive with one coat of primer and two coats of smooth finish and cost and conveyance of all materials to site, labor charges etc., complete as per the direction of Engineer in charge.		
695	MAT-01308	BMT-M.73	Supply and fixing of CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS double skin partition using with 10 mm CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS made out of G.I track section of size 50 mm x 35mm x 0.55mm for fixing to the roof and floor and stud section of size 48mm x 35mm x 0.55mm placed in track section vertically at 610mm intervals and at 1200mm internals horizontally. The frame is fixed by means of self expansion screws and caps to the wall / roof. LAM is to be fixed both sides of the frame work by using 2mm thick electro plated CR flat section leaving 3mm gap between two panels. The cost inclusive of cost and conveyance of all materials to sites, other materials incidentals and labour charges as per the direction of Engineer in charges.	1 Sqm	2800
696	MAT-01310	BMT-M.75	Supply and fixing of CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS aluminum glazed partitions using 10 MM CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS and 5 mm thick plain glass to full height. Using with LAM to a height of 0.91 meter at bottom panel and remaining height with glass and aluminum sections anodized to 12 to 15 microns and of sections of size 37mm x 62mm and 1.5mm thickness with one meter centre to centre duly fixed with clip beading on both sides including fixing the frame to pillars by M.S. flats, bolts and nuts including cost and conveyance of all materials etc., complete as directed during execution.	1 Sqm	3400
697	MAT-01311	BMT-M.76	Providing and fixing 50mm thick SEMI HEIGHT SOLID PVC PARTITION consisting of 49mm sandwich PVC panel made out of 36mm high density	1 sqm	2900

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			<p>expanded polystyrene sheet(E.P.S.-Thermocole) stuck on both side with 2mm thick plain/printed /prelam PVC rigid foam sheets reinforced with frame work made from 35mmX5mm M.S. Angle. In between two M.S. Angles 5mm thick plain/printed/prelam heat moulded PVC 'C' channel of size 50X100mm with feathered edges shall be fixed on the floor & 50X75mm with feathered edges plain/printed /prelam PVC 'C' channel. In between adjoining EPS sandwiched PVC partitions panel 5mm thickX75mm width plain/printed/prelam PVC sheet feathered at edges shall be stuck on front & back face using solvent cement etc. in places where two partitions meet to form an 'L' shape the panels are joined 5mm thick plain/printed/prelam heat moulded "Rajshri" PVC 'L' section of size 75mmX75mm with feathered edges shall be fixed on front & back side. This is done to maintain the symmetry of design. An additional 5mm thick PVC strip of 40mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive, complete as per direction of Engineer-in-Charge, manufacture's specification & drawing</p>		
698	MAT-01324	BMT-M.89	<p>Supply and fixing of PVC Double Skin Partition. The entire framework shall be carried out by mild steel section having overall dimensions of 24 X 48mm with a wall thickness of 1.2mm. The entire framework shall be concealed with PVC section having overall dimensions of 6 X 250mm with a wall thickness of 1mm ± 0.3mm both sides. Glass provision/Door provision can be provided along the partition wherever required. Partitions can be made full or half as per requirement complete, for finished item of work.</p>	Sqm.	2500
			<p>Supply and fixing of partitions made of seccolor pre-painted steel (base steel as per IS 513 of 0.58 mm thick 'D' quality, galvanized as per IS 277 with Zinc of 120 GSM). Primer coated with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick alkyd backer. Section for outer frame should be 46x52mm,</p>		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			section for shutter should be 46x46mm, section for mullion should be 46x70mm, section for beading should be 18x25mm and section for middle and bottom rail (Lock Rail and Kick Rail) of size should be 23x130mm. The partition should be paneled with 9mm pre-laminated particle board to a height of 0.91m from the bottom, and remaining height with 5mm thick plain glass With Ethyl Propylene Diamine Monomer (EPDM) Gaskets. The sections are to be cut to length, mitre joined with corner bracket Centre mullions are to be fixed using mullion cap. Gaskets made of Ethyl Propylene Diamine Monomer (EPDM). Corner brackets made of CRCA with zinc phosphate. Mullion caps made of Glass filled nylon. The above frames should be fixed to the concrete/masonry wall by means of self expanding screws, and complete for finished item of work.		
699	MAT-01325	BMT-M.90	Fixed Partition: Outer frame section size of 46x52mm, mullion section should be of 46x70mm, fixed beading should be of 18x25mm.	1 sqm	5148
700	MAT-01326	BMT-M.91	Fixed Partition with Door: Outer frame section size of 46x52mm, mullion section should be of 46x70mm, fixed beading should be of 18x25mm, section for shutter should be of 46x46mm and section for middle & bottom should be of size 23x130mm.	1 sqm	5250
			DRY WALL PARTITION WITH 50 MM THICK V-PANEL		
701	MAT-01327	BMT-M.92	CEMENT BONDED PARTICLE PLANK- 8 mm- Available size-150 mm X2440mm and 200mm X 2440mm	1 Sqm	630
702	MAT-01328	BMT-M.93	CEMENT BONDED PARTICLE PLANK- 10 mm- Available size-150 mm X2440mm and 200mm X 2440mm	1 Sqm	675
703	MAT-01329	BMT-M.94	CEMENT BONDED PARTICLE PLANK- 12 mm- Available size-150 mm X2440mm and 200mm X 2440mm	1 Sqm	900
			Note: Items BMT-M.33, BMT-M.34, and BMT-M.35 are removed in the section M and are brought as new items in the Section D as BMT-D.18, BMT-D.19 and BMT-D.20.		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
N.SECTION			DOORS (Landing cost – including loading, cost of conveyance, unloading)		
I.SUB- SECTION			DOOR FRAMES		
704	MAT-05431	BMT-N.80	Powder Coated Mild Steel Hallow single rebate door frames manufactured using cold roll formed process steel sheet of 1.25 mm thick bright (Cold Rolled Close Annealed (CRCA) and profile size of 105 x 60 mm conforming to IS 4351 - 2003 including pretreatment, Galvanized as per IS:277, zinc phosphating finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability/Epoxy polyester powder for powder coating paint thickness 60 – 65 microns(Dry film thickness)Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame with Hinges, Base Ties, Holdfast Lugs, Mortar Guards, shock absorbers and provision for Tower Bolts, Aldrops, Lock & Strike plates etc. for both single and double shutter doors	1 RM	750
705	MAT-05432	BMT-N.81	Mild Steel Hallow single rebate general purpose door frames manufactured using cold roll formed process steel sheet of 1.25 mm thick bright (Cold Rolled Close Annealed (CRCA) and profile-B of size 105 x 60 mm conforming to IS 4351 - 2003 including pretreatment, phosphating with Hinges, Base Ties, Holdfast Lugs, Mortar Guards, shock absorbers and provision for Tower Bolts, Aldrops, Lock & Strike plates etc. for both single and double shutter doors	1 Rm	415
706	MAT-01330	BMT-N.01	Providing and fixing factory made polyvinyl chloride (PVC) Door Frame of the size 50 x 47mm with a wall thickness of 5mm, made out of extruded 10 mm rigid PVC foam sheet, mitre cut at two corners and joined with 2nos. of 150mm long brackets of 15x15mm M.S. square tube. The two vertical door profiles are to be reinforced with 19x19mm M.S. Square tube of 19 gauge. The door frame shall be fixed to the wall using 65/100mm long M.S. Screws through the frame by using PVC fasteners. A minimum of 4nos. of screws to be provided for each vertical member & minimum 2nos. for horizontal member etc. complete as per	1 Rm	380

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			manufacturers specification and direction of Engineer-in-Charge for finished item of work		
707	MAT-01334	BMT-N.05	SINGLE SIDE PRELAM SOLID PANEL PVC DOOR FRAME (CHOUKHAT): Providing and fixing factory made Pac single side Prelam door frame of the size 50X47 mm with a wall thickness of 5mm, made out of extruded 5mm rigid Pac single side prelam sheet, meter cut at two corners and joined with 2nos. of 150mm long brackets of 1515mm MS.Square tube. The two vertical door profiles are to be reinforced with 19X19mm MS. square tube of 19 gauge. The door frame shall be fixed to the wall using 65/100mm long MS. Screws through the frame by using Pac fasteners. a minimum of 4nos. of screws to be provided for each vertical member and minimum 2nos. for horizontal member etc. complete as per manufacture specification and direction of Engineer-in-charge.	1 Rm	400
708	MAT-01361	BMT-N.32	Supply and fixing of door frame made of hollow extruded PVC section having dimensions of 40 X 57mm with the wall thickness of 2mm +/- 0.2mm duly reinforced with seasoned wood plank at the hinges side. The door frame top 2 corners shall be metri-cut/ welded. PVC DOOR FRAME	1 RM	256
709	MAT-01362	BMT-N.33	Supply and fixing of door frame made of hollow extruded PVC section having dimensions of 40 X 46 mm with the wall thickness of 2mm +/- 0.2mm duly reinforced with seasoned wood plank at the hinges side. The door frame top 2 corners shall be mitre cut/welded	1 RM	220
710	MAT-01363	BMT-N.34	Supply & fixing of Door frames made of all formed sections of 1.25mm thick CRCA section, size should be 50x60mm with 32mm rebate. The corner of the frame should be welded. The frame should be painted with one coat of primer and finished painted with pure polyester paint. The frame should be provided with approved quality butt hinges of 3 Nos. complete for finished item.: Single shutter 3'-0" x 7'-0" (914.4x2133.6mm) outer frame section size of 50 x 60 mm	1RM	260

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
711	MAT-01364	BMT-N.35	Supply & fixing of Door frames made of all formed sections of 1.25mm thick CRCA section, size should be 50x60mm with 32mm rebate. The corner of the frame should be welded. The frame should be painted with one coat of primer and finished painted with pure polyester paint. The frame should be provided with approved quality butt hinges of 3 Nos. complete for finished item.: Double shutter 5'-0" x 7'-0" (1524 x 2133.6mm) outer frame section size of 50 x 60 mm	1 RM	260
712	MAT-01365	BMT-N.36	Supplying & fixing of Door frame made of roll formed section of 1.25 mm thick CRCA section, size should be 50 x 60 mm with 32 mm rebate. The corner of the frame should be welded. The frame should be painted with one coat of primer and finished painted with pure polyester paint. The frame should be provided with approved quality butt hinges of 3 Nos. Complete for finished item of work.: Single shutter 3'-0" x 7'-0" (914.4x2133.6mm) outer frame section size of 50 x 75 mm	1 RM	296
713	MAT-01366	BMT-N.37	Supplying & fixing of Door frame made of roll formed section of 1.25 mm thick CRCA section, size should be 50 x 60 mm with 32 mm rebate. The corner of the frame should be welded. The frame should be painted with one coat of primer and finished painted with pure polyester paint. The frame should be provided with approved quality butt hinges of 3 Nos. Complete for finished item of work.: Single shutter 5'-0" x 7'-0" (1524x2133.6mm) outer frame section size of 50 x 75 mm	1 RM	296
714	MAT-01367	BMT-N.38	Providing and fixing door frames fabricated from sections made of galvanized steel powder coated (base steel as per IS 513, galvanised as per IS 277 with zinc of 120 grams / square metre), the factory made section are powder coated with pure polyester powder of 50-60 microns thick with total coated thickness of 1.25 mm, size of door frame section is of 105 x 60 mm with a rebate of 38 mm to accommodate 35 mm thick door shutter, with groove to insert gasket in the frame section, frame section filled with polyurethane foam,	1 RM	828

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			cut to length, and joined by way of welding, each frame provided with: a) 2mm thick MS powder coated butt hinges of 100 mm long – 3 Nos. for single shutter, 6 Nos. for double shutter. b) CRCA electroplates stiffeners of 6 Nos. – 3 in each vertical. c) 40 mm x 200 mm x 1.2 mm hold fasts screwed to stiffeners – 6 Nos. with split end tail. d) Nylon Aldrop Receiver – 1 No. for single shutter frame. e) Tie Rod – 1 No		
715	MAT-01368	BMT-N.39	Providing and fixing of door frames factory made, internal door frames without threshold, fabricated from pre painted cold roll formed section 100 mm x 60 mm made of galvanized (base steel as per IS-513 'D' quality galvanized as per IS-277 with Zinc of 120 Gms/sqm) steel colour coated sections with total coated thickness of 1 mm primer coated with epoxy primer of 5-7 microns thick finish painted with polyester paint of 12-16 microns and back coated with alkyd backer of 5-7 microns, the frame section filled with polyurethane (PU Foam) of 40 kg/Cu.m and the sections cut to length and mitre joined by means of 1.25 mm thick CRCA electroplated corner brackets of size 75 x 75 mm and 1.25 mm thick electroplated stiffeners of size 150 mm for fixing hold fasts and hinges with MS Powder coated fittings a) 6 Nos M.S. Z Type hold fasts made of 30 mm x 3 mm MS flat of 230 mm long, 3 Nos each size expandable PVC covered screw type fasteners b) 2.5 mm x 300 mm long 'T' hinges /2.5 mm x 50 mm x 50 mm x 100 mm two way but hinges (3 Nos for single leaf or 2 Nos for Double leaf/leaf) c) 12 mm dia MS tie rod at bottom with necessary size of nuts on either side.	1 RM	525
716	MAT-01383	BMT-N.54	Providing & fixing internal prelamated PVC door frame of size 100 x 45 mm with a wall thickness of 5mm, made of extruded 5 mm Prelam PVC foam sheet, mitred cut at two corners and joined with two nos. of 150mm long brackets of 15 x 15 mm MS square tube, two vertical door profiles reinforced with 40 x 20 MS Tube of 19 guage throughout the frame and the door frame fixed to the wall using 65/100mm long MS screws through the	1 RM	650

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			frame by using PVC fasteners with a minimum of 3 nos of screws provided for each vertical member and two nos. for horizontal, etc complete as per drawing and direction of Engineer in Charge		
717	MAT-01401	BMT-N.72	PVC Door frame made out of PVC material conforming to IS:10151:1982. The door frame shall be made from extruded PVC Section in overall dimensions of 40mm x 48mm having wall thickness of 1.1mm +/-0.3mm with usual process variation corresponding to Sintex code number RUPS 414. The frame shall be Reinforced with special polymeric reinforcement as shown in drawing to take up necessary hardware. The corner joint shall be mitre cut and welded or joined by means of concealed cleats with necessary screws fittings. A tie rod to be provided at bottom. [Laminated Profile]	Per Rmt.	235
718		BMT-N.83	Providing and fixing factory made solid Wood Polymer Composite (WPC) single extruded Door Frame section of size with encapsulation of 8MM rigid layer on all the six surfaces. The door frame will have a rebat of 32MM.		
719	MAT-05434	BMT-N.83.A	Door Frame section of 45x75 MM . The two Vertical members are to be joined together with the horizontal member using 8x50 MM long MS Star full thread screws to be used with reverse forward speed control hand drilling machine. The ready/assembled door frame is fixed to the wall using hold fast or bolt fasteners. A minimum of 4 No.s of screws to be provided for each vertical member & minimum 2no.s for horizontal member.	1 Rm	550
720	MAT-05435	BMT-N.83.B	Door Frame section of 45x90 MM . The two Vertical members are to be joined together with the horizontal member using 8x60 MM long MS Star full thread screws to be used with reverse forward speed control hand drilling machine. The ready/assembled door frame is fixed to the wall using hold fast or bolt fasteners. A minimum of 4 No.s of screws to be provided for each vertical member & minimum 2no.s for horizontal member.	1 Rm	775

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
721	MAT-05436	BMT-N.83.C	Door Frame section of 63.5x100 MM .The two Vertical members are to be joined together with the horizontal member using 8x75 MM long MS Star full thread screws to be used with reverse forward speed control hand drilling machine. The ready/assembled door frame is fixed to the wall using hold fast or bolt fasteners. A minimum of 4 No.s of screws to be provided for each vertical member & minimum 2no.s for horizontal member.	1 Rm	920
722	MAT-05433	BMT-N.82	Supply and fixing of factory made Bathroom door frames without threshold, fabricated from pre-painted cold roll formed section 50mm x 50 mm made of galvanized (base steel as per IS – 513 'D' quality, galvanized as per IS-277 with Zinc of 120 Gms/sqm) steel colour coated sections with total coated thickness of 1 mm, primer coated with epoxy primer of 5-7 microns thick, finish painted with polyester paint of 12-16 microns and back coated with alkyd backer of 5-7 microns and the frame section filled with polyurethane (P.U. Foam) of 40 Kg/Cum; and the sections cut to length and mitre joined by means of 1.25mm thick CRCA electroplated corner brackets of size 75 x 75 mm and 1.25mm thick electroplated stiffeners of size 150mm for fixing hold fasts and hinges together with the following MS Power coated fitting (Supply and fixing) of approved make. (a) 6 Nos M.S. Z. Type hold fasts made of 30mm x 3 mm MS flat of 230mm long, 3 Nos each side expandable PVC covered screw type fasteners. (b) 2.5 mm x 300 mm long 'T' hinges / 2.5mm x 50 mm x 100mm two way but hinges (3 Nos for single leaf or 2 Nos for Double leaf /leaf) (c) 12 mm Dia MS tie rod at bottom with necessary size of nuts on either side.	1 RM	490
II.SUB- SECTION			DOOR SHUTTERS WITHOUTFRAMES		
723	MAT-01341	BMT-N.12	Flush door shutters, solid bond wood block board type with teak ply on both faces .: 25 mmthick conforming to IS:2202	1 sqm	2000
724	MAT-01342	BMT-N.13	Flush door shutters, solid bond wood block board type with teak ply on both	1 sqm	2100

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			faces.: 30 mmthick conforming to IS:2202		
725	MAT-01343	BMT-N.14	Flush door shutters, solid bond wood block board type with teak ply on both faces.: 35 mmthick conforming to IS:2202	1 sqm	2275
726	MAT-01344	BMT-N.15	Flush door shutters, solid bond wood block board type with commercial ply on both faces.: 25 mmthick conforming to IS:2202	1 sqm	1135
727	MAT-01345	BMT-N.16	Flush door shutters, solid bond wood block board type with commercial ply on both faces.: 30 mmthick conforming to IS:2202	1 sqm	1400
728	MAT-01346	BMT-N.17	Flush door shutters, solid bond wood block board type with commercial ply on both faces.: 35 mmthick conforming to IS:2202	1 sqm	1529
729	MAT-01347	BMT-N.18	Flush door shutters, solid bond wood block board type with commercial ply on both faces.: 40 mmthick conforming to IS:2202	1 sqm	1690
730	MAT-01348	BMT-N.19	Flush door shutters, solid bond wood block board type with teak veneer on one face and commercial ply on another face (lipping): 20 mmthick conforming to IS:2202	1 sqm	2136
731	MAT-01349	BMT-N.20	Flush door shutters, solid bond wood block board type with teak veneer on one face and commercial ply on another face (lipping): 25 mmthick conforming to IS:2202	1 sqm	2100
732	MAT-01350	BMT-N.21	Flush door shutters, solid bond wood block board type with teak veneer on one face and commercial ply on another face (lipping): 30 mmthick conforming to IS:2202	1 sqm	2305
733	MAT-01351	BMT-N.22	Flush door shutters, solid bond wood block board type with teak veneer on one face and commercial ply on another face (lipping): 35 mmthick conforming to IS:2202	1 sqm	2514
734	MAT-01352	BMT-N.23	Flush door shutters, solid bond wood block board type with teak veneer on one face and commercial ply on another face (lipping): 40 mmthick conforming to IS:2202	1 sqm	2873
735	MAT-01354	BMT-N.25	Supply and fixing Cement Bonded Particle Board (IS 14276) single door	1 Sqm	2059

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			shutter using with 16MM Cement Bonded Particle Board with all-round "U" section of size 12mmx18mmx12mm made from 0.6 mm thick galvanized, color quoted cold rolled steel profiles with necessary screws fixed at every 304.8 mm intervals. The cost inclusive of MS Nickel coated Aldrops of size 255 mm long 2 Nos., 200 mm long tower bolts 1 No., 125 mm handles 2 Nos. 300 mm long "T" hinge cost and conveyance of all materials at site and applying 1 coat primer, 1 coat of luppum and 2 coats of synthetic enamel paint as per approved design for finished item of work.		
736	MAT-01355	BMT-N.26	Supply and fixing of Cement Bonded Particle Board(IS 14276) door shutters using with 16MM Cement Bonded Particle Board with all round style "U" size of 20mmx18mm x20mm made from 0.6mm thick galvanized pre-painted cold rolled steel profiles with Cement Bonded Particle Board separating two shutter with 30mmx18mmx30mm Stepped lipping with necessary screws fixed at every 1'-0" (304.8mm) intervals. Ms Nickel coated 250 mm long aldrops 2 no's, MS powder coated 250mm long tower bolt 2no's , & 2no's MS powder coated 125 mm long grip handle. Including cost and conveyance of all materials at site and applying one coat of primer, 2 coats of lappum and 2 coats of synthetic enamel paint as per approved design for finished item of work.	1 Sqm	3079
737	MAT-01408	BMT-N.79	Supply and fixing of CEMENT BONDED PARTICLE BOARD double door shutter using 16 MM CEMENT BONDED PARTICLE BOARD LAM with all round "U" section size of 20mm x 18mm x20mm made from 0.6mm thick galvanized pre-painted cold ro steel profiles with CEMENT BONDED PARTICLE BOARD LAM separating two shutter with 30mm x lled 20mm x 30mm stepped lipping with necessary screws fixed at every 1'0" (304.8mm) intervals. The cost inclusive of MS Nickel coated 250mm long aldrops 2no's, MS powder coated 125mm long grip handle, 2 no's M.S.P.C. Door stopper. Including cost and conveyance	1 Sqm	2929

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			of all materials at site labor charges etc., complete finished item of work.		
738	MAT-01359	BMT-N.30	Supply and fixing of CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS door shutter made out of U sections of size 12x14x12 made from 0.6mm thick pps sections with 12MM CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS with necessary screws fixed at every 1'.0" interwells. The hardware consists of 250mm long aldrops – 2 Nos. 150mm Handle- 1 No , 150 mm long ms powder coated tower bolt 1 no. nickle coated. The cost is inclusive of all incidentals, labor transportation charges.	1 Sqm	2448
739	MAT-01392	BMT-N.63	Supply and fixing of BOARD (conforming to IS 14862) door shutter with all-round style "U" lipping size 15 x 18 x 15 mm made from 0.8 mm thick powder coated cold rolled steel profiles with 16 mm thick V-BOARD with necessary screws fixed at 1'-0" interval 250 mm long aldrops 2 nos. M.S. nickel coated 250 mm long 1 no. M.S. Tower Bolts Including cost and conveyance of all materials at site and applying 1 coat of primer, 2 coats of luppum and 2 coats of synthetic enamel paint as per approved design for finished item of work.	1 Sqm	1472
740	MAT-01356	BMT-N.27	Supply and fixing of Cement Bonded Particle Board (IS 14276) LAM double door shutter using 16 MM CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS with all round "U" section size of 20mm x 18mm x 20mm made from 0.6mm thick galvanized pre-painted cold rolled steel profiles with Cement Bonded Particle Board (IS 14276) LAM separating two shutter with 30mm x 20mm x 30mm stepped lipping with necessary screws fixed at every 1'0" (304.8mm) intervals. The cost inclusive of MS Nickel coated 250mm long aldrops 2no's, MS powder coated 125mm long grip handle, 2 no's M.S.P.C. Door stopper. Including cost and conveyance of all materials at site labour charges etc., complete finished item of work.	1 Sqm	2054
741	MAT-01376	BMT-N.47	Moulded panel solid core flush doors using water-resistant hardwood fibre	1 Sqm	1833

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			HDF / MDF fibre boards skins of 2.5 mm thick doors - 30 mm thick		
742	MAT-01377	BMT-N.48	Moulded panel solid core flush doors using water-resistant hardwood fibre HDF / MDF fibre boards skins of 2.5 mm thick doors - 35 mm thick	1 Sqm	2101
743	MAT-01378	BMT-N.49	Solid core membrane flush doors using rigid PVC membrane of 0.3 mm thick of different elegant shades doors - 30 mm thick	1 Sqm	1561
744	MAT-01379	BMT-N.50	Solid core membrane flush doors using rigid PVC membrane of 0.3 mm thick of different elegant shades doors - 35 mm thick	1 Sqm	1729
745	MAT-01335	BMT-N.06	Providing and fixing 35mm thick BRAND FACTORY MADE MOULDED DOOR SHUTTER consisting of solid core single leaf flush door of 30mm thickness, lipped with 15mm (5mmX3) thick X 30mm width on one stiles and top rails and 10mm (5mmX2) thick X 30mm width on the other stiles and bottom rails. The inner panel laminated with 2mm thick termite proof, water proof and fire resistant moulded Pac sheet with 2,4,6 raised panel design in different panel and / or prelam colours on one side after routing the moulded design on flush door and 2mm prelam Pac sheet on other side using rubber adhesive on flush door and solvent cement adhesive on Pac lipping etc. complete as per direction of Engineer-in-Charge, manufacture specification and drawing	1 sqm	2971
746	MAT-01360	BMT-N.31	Supply and fixing of door shutters made of rigid PVC extruded hollow section of 20mm X 200 mm with the wall thickness of 1.0mm +/- 0.1mm equally divided into 4 no's with tongue and groove locking arrangements. The shutter frame is made of 30mm X 79mm with the wall thickness of 1.5mm +/-0.15mm section mitre-cut and joined at 4 corners with 125mm X 225mm plastic brackets. The shutter shall be horizontally reinforced with 2 no's of 8mm PVC rods. Teak wood batons shall be reinforced inside the door shutter during the fabrication of the door shutter at those points wherever the hardware is fixed onto the door shutter.	Sqm.	1825

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
747	MAT-01381	BMT-N.52	Supply & Fixing SOLID STEEL DOOR door shutter made out of G I Precoated Sheet with an average wall thickness of 0.35 mm on both sides. MS Tube having dimensions of 19 x 19 mm is inserted along the hinge side of the door, core of the door shutter filled with High Density Polyurethane foam injected with the help of hydraulic injection method, four sides of the door covered with G I Precoated Sheet and the hardware locations reinforced with suitable wooden blocks as per drawing and stickers indicating location of the hardware pasted at appropriate places, etc complete	1 Sqm	1750
748	MAT-01393	BMT-N.64	Supply and fixing of BOARD (conforming to IS 14862) 12 mm thick door shutter of size 6'0" x 2'6" with all-round style "U" lipping size 15 x 14 x 15 mm made from 0.8 mm thick powder coated cold rolled steel profiles with necessary screws fixed at 1'-0" interval 250 mm long aldrops 2 nos. M.S. nickel coated 250 mm long 1 no. M.S. Tower Bolts Including cost and conveyance of all materials at site and applying 1 coat of primer, 2 coats of luppum and 2 coats of synthetic enamel paint as per approved design for finished item of work.	1 Sqm	1450
749	MAT-01397	BMT-N.68	Providing of 35mm thick Facotry made Prelaminated ABS (Acrolynitrile Butadyne Styrene) Door shutter moulded in different designs, consisting of all round Frame made out of water proof solid foam PVC bar of size 20x32mm, reinforced by 32x 32mm - 2 nos. for vertical made out of LVL (Laminated Veneer Lumber), core material of 32 mm thick high density craft paper honey comb board, sandwiched on both sides with prelaminated ABS sheet thickness of 1.5mm . PVC edge banding of size 0.45mm on the vertical sides.for each shutter and ISI make S.S round lock complete for finished item of work	1 Sqm	7000
III.SUB- SECTION			DOORS WITH SHUTTERS & FRAMES		
750	MAT-01331	BMT-N.02	Providing and fixing 30mm thick Solid panel PVC door shutter consisting of frame made out of M.S. tubes of 19	1 Sqm	2600

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			gauge thickness and size of 19mm x 19mm for stiles, & 15mm x 15mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame shall be covered with 5mm thick heat moulded PVC 'C' channel of size 30 x 50mm forming stiles, and 5mm thick, 75mm wide PVC sheets for top rail, lock rail & bottom rail on either side, and 10mm (5mm x 2) thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail. Panelling of 5mm thick PVC sheet to be fitted in the M.S. frame welded / sealed to the stiles & rails with 30mm wide x 5mm thick PVC sheet beading on either side, and joined together with solvent cement adhesive etc. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive. Complete as per direction of Engineer-in-charge, manufacturer's specification & drawing for finished item of work .		
751	MAT-01332	BMT-N.03	Providing and fixing 30mm thick BRAND FACTORY MADE BOTHSIDE PRELAM SOLID PANEL PVC DOOR SHUTTER consisting of frame made out of MS. Tubes of 19gauge thickness and size of 19mmX19mm for stiles, top and bottom rails. MS. Frame shall have a coat of steel primers of approved make and manufacture. MS. Frame covered with 5mm thick heat moulded Prelam Pac 'C' channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 450 angle on either side forming stiles; and 5mm thick, 95mm wide Prelam Pac sheet out of which 75mm shall be flat and 20mm shall be tapered in 450 on the inner side to form top and bottom rail 115mm wide Prelam Pac sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, bottom and lock rail shall be provided either side of the panel. 10mm (5mmX2) thick, 20mmwide cross Pac sheet shall be provided as gap insert for top and bottom rail. Panelling of 5mm thick both side Prelam Pac sheet to be fitted in the MS. Frame welded/ sealed to the stiles	1 sqm	2900

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			& rails with 7mm(5mm+2mm) thick X 15mm wide Pac sheet beading on inner side, and joined together with solvent cement adhesive etc. an additional 5mm thick Pac strip of 20mm width is to be stuck on the interior side of the 'C' channel using Pac solvent cement adhesive etc. complete as per direction of Engineer – in-charge, manufacture specification and drawing.		
752	MAT-01333	BMT-N.04	<p>Providing and fixing 30mm thick BRAND FACTORY MADE SOLID SINGLE SIDE PRELAM PANEL PVC DOOR SHUTTER consisting of frame made out of MS. Tubes of 19 gauge thickness and size of 19mmX19mm for stiles, and 15mmX15mm for top and bottom rails. The MS. Frame shall have a coat of steel primers of approved make and manufacture. MS. Frame covered with 5mm thick heat moulded single side Prelam Pac 'C' channel of size 30mmX50mm to form stiles. 5mm thick & 75mm wide single side prelim Pac sheets shall be for the top, bottom and lock rails. Panelling of 5mm thick one side Pac sheet to be fitted in the MS. Frame and sealed to the front (prelam side) stiles and rails (which should have a 5mm 45 bent portion as beading) and attached to the back(white/ivory) stiles and rails which should have a 10mm 90 bent portion as beading) using 2nos. 15mm wide X 5mm thick Pac sheet beading inside the 90 bent beading. All stiles, rails and beadings are to be joined to the panel using solvent cement etc. an additional 5mm thick Pac strip of 20mm width to be stuck on the interior side of the 'C' channel using Pac solvent cement adhesive and 10mm(5mmX2) thick, 20mm wide cross Pac sheet to be fitted as gap insert for top and bottom rail etc. complete as per direction of Engineer – in-Charge, manufacture specification and drawing.</p>	1 sqm	2600
753	MAT-01336	BMT-N.07	<p>MOULDED PVC DOOR - WOOD FREE Providing and fixing 30mm thick Brand factory made Moulded door shutter-wood free consisting of frame made out of MS. tubes 19 gauge thickness and size of 25mmX25mm for stiles, top and bottom rails. MS. Frame shall have a</p>	1 sqm	2600

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			coat of steel primers. The inner panel shall consist of 25mm thick High density EPS conforming to IS 4671-1984 bounded with 2mm thick termite proof, water proof and fire resistant moulded Pac sheet with 2,4,6 raised panel design in different plain and / or prelam colours after routing to the moulded design on one side and 2mm plain and / or prelam Pac sheet on other side of the EPS. The edge of panel to be sealed with lipping of 10mm wide PVC sheet bottom (made by sticking 2 rigid foam sheet of 5mm thickness using Pac solvent cement) and stiles sides 25mm(5mmX5) thick and 30mm width Pac sheet fitted along Ms. Tube for lock provision for lock height 5mm thick Pac sheet of size 150mmX100mm fixed with upper and lower face of inner side of EPS Panel etc. Complete as per direction of Engineer – in-Charge, manufacture specification and drawing		
754	MAT-01337	BMT-N.08	Providing and fixing 30mm thick BRAND FACTORY MADE WIRE MESH SOLID PVC DOOR SHUTTER consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mmX19mm for stiles and 15mm for top, lock & bottom rails. MS. Frame shall have a coat of steel primers of approved make and manufacture. 19mmX19mm M.S. square tubes shall be covered with 5mm thick heat moulded PVC 'C' channel of size 30mm thickness, 90mm width out of which 75mm shall be flat and 15mm shall be flat and 15mm shall be bent in 90° on the inner side to from top and bottom rail and 130mm wide PVC sheet out of which 100mm shall be flat and 154mm shall be bent in 90° on both side to from lock rail, 10mm(5mmX2) thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail. Panel will be of G.I. wire mesh of 24 gauge to be fitted in by 'C' channel of size 35mm X10mm on the either side in the stiles. The inner side 'C' channel is fixed by 19mmX19mm MS. Tube on both sides with screws. The wire mesh in top bottom & lock rails sealed with 15mm X 15mm tube with G.I. wire 10mm(5mmX2) thick PVC strip of 25mm width is to be stuck & nails on	1 sqm	2200

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			both side of G.I. wire mesh interior at the top, bottom & lock rail. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the 'C' channel using PVC solvent cement adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawings		
755	MAT-01394	BMT-N.65	Providing and fixing frame made from 1.2 mm powder coated cold rolled steel profiles of overall section size of 60 mm x 45 mm with 21 mm rivet for shutter with necessary stiffeners hinges and screws. BOARD (IS 14862) shutter with all-round style "U" lipping of size 15 x 18x 15 mm made from 0.8 mm thick CRCA powder coated steel profile with 16 mm thick V-board with necessary screws fixed at every 1'-0" interval 250 mm long alldrops 2 nos. M.S. nickel coated 250 mm long 1 no. M.S. Tower Bolts Including cost and conveyance. One coat of primer, 2 coats of luppum and 2 coats of synthetic enamel paint as per approved colour, labour charges etc.	1 Sqm	2200
756	MAT-01357	BMT-N.28	Providing and fixing of door frame made from cold roll formed sections made of galvanized (Base steel as per IS277 with zinc of 120 Gms/sqm) colour coated steel sections with total coated thickness of 1mm, primer coated with epoxy primer coat of 5-7 microns thick, finish paint with polyester paint of 12-16 microns. The Section for door frame isto be filled with polyurethane (P.U) form of 40kg/m3. Overall size of frame section should be of 50mm x 50mm. With necessary corner brackets, stiffeners, hinges, and screws. Cement Bonded particle board shutter "Single Leaf" with all round styles "U" section of size 12m x 18m x 12mm made from 0.6 mm thick galvanized, colour coated cold rolled steel profiles with 16mm thick Cement Bonded particle Board with necessary screws fixed at every 1'-0" (304.8mm) intervals. The cost inclusive of MS nickel coated Aldrop of size 250mm long 2nos. 200mm long tower bolt 1no., 125mm handles 2nos., cost and conveyance of all materials at site and applying one coat primer , one coatof luppum and two coats of synthetic enamel paint as per approved design	1 Sqm	4500

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			for finished item of work		
-		-	DOORS FRAMES (COLOUR COATED STEEL SECTIONS) & SHUTTER USING CEMENT BONDED PARTICLE BOARD AS PER IS 14276:	-	
757 TO 760		BMT-N.40 to BMT-N.43	ITEM DELETED		
761	MAT-01373	BMT-N.44	Supplying and fixing door shutter, with shutter frame and infill panel made from PVC material conforming to IS: 10151-1982, the shutter frame made out of PVC extruded sections having overall dimension of 47 mm x 33 mm with wall thickness of 1.2mm + 0.3mm with usual process variation, the shutter frame with tapered shape to provide better grip to the infill panel end to drain out the water The Infill panel is made out of PVC Sections having Overall Dimensions of 200 mm x 20 mm with wall thickness of 1mm + 0.2mm, the shutter frames mitre cut and joined at the corner, by providing Polymeric “ L” type corners to take hardware & fixtures fixed with 10- 20mm counter sunk fully threaded parallel shank steel screws, all the hardware locations reinforced with special polymeric bars as per drawings, stickers showing locations of different hardware pasted on the shutter, the infill panels joined by tongue and groove method.	1 Sqm	1050
762	MAT-01374	BMT-N.45	Providing & Fixing of Scientific Doors with metal door frames and door shutters made of galvanize steel (base steel as per IS 513 of 0.58 mm thick D quality, galvanized as per IS 277 with Zinc of 120 GSM) coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability/Epoxy polyester powder for powder coating paint thickness 50-60 microns (Dry film thickness) outer frame section of 100 x 58 mm x 1.2 mm thick, shutter section of 0.80 mm thick galvanized steel sheet pressed (roll formed) for 46mm thick fully flush, double skin door shell seam joints at stile edges, in-fill of honeycomb kraft paper used to give the required	1 Sqm	10519

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			rigidity and effective acoustic insulation with 6" Tower bolt – 1 No., 6" D handles – 2 Nos., 10" Aldrop – 1 No., Butt Hinges – 3 Nos, Mortise Lock of approved quality – 1 No, frames fixed to the concrete/masonry wall by means of self expanding screws complete for finished item of work for Single leaf Door		
764	MAT-01375	BMT-N.46	Providing & Fixing of Scientific Doors with metal door frames and door shutters made of galvanized steel (base steel as per IS 513 of 0.58 mm thick D quality, galvanized as per IS 277 with Zinc of 120 GSM). coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability/Epoxy polyester powder for powder coating paint thickness 50-60 microns (Dry film thickness) outer frame section of 100 x 58 mm x 1.2 mm thick, shutter section of 0.80 mm thick galvanized steel sheet pressed (roll formed) for 46mm thick fully flush, double skin door shell seam joints at stile edges, in-fill of honeycomb kraft paper used to give the required rigidity and effective acoustic insulation with 6" Tower bolt – 2 Nos., 6" D handles – 2 Nos., 10" Aldrop – 1 No., Butt Hinges – 6 Nos, Mortise Lock of approved quality – 1 No, frames fixed to the concrete/masonry wall by means of self expanding screws complete for finished item of work for Double leaf Door	1 Sqm	10989
765	MAT-01380	BMT-N.51	Providing & fixing 30 mm thick solid panel PVC door shutter consisting of frame made out of 19 gauge M.S tube of 19 x 19 mm for stiles, top & bottom rail, with a coat of primer of approved make. M.S. Frame covered with 5 mm thick heat moulded PVC "C" channel of size of 30 x 50 mm forming stiles, 5 mm thick 75 mm wide PVC sheet for top, lock & bottom rail on either side 20 mm wide cross PVC sheet as gap insert for top & bottom rail, panelling of 10mm(+/-)(5mm+5mm)" thick PVC sheet fitted in the M.S. frame welded /sealed to the stiles, on either side joined together with solvent cement adhesive etc., additional 5 mm thick	1 Sqm	3161

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			PVC strip of 20 mm width stuck on the interior side of the C channel using solvent cement, complete as per direction of Engineer-in-charge, manufacturers specification.		
766	MAT-01382	BMT-N.53	Supplying & fixing SINGLE PANEL 30 mm thick PVC DOOR, door shutters with shutter frame and Infill panel made from PVC material, the shutter frame made out of PVC extruded sections having overall dimensions of 60mm x 30 mm with wall thickness of 1.3 mm ± 0.3 mm, with the Infill panel made out of multi chambered seamless hollow PVC extruded panel having overall dimensions of 610 mm x 20 mm having wall thickness 1 mm ± 0.2 mm with the shutter frame meter cut and joined at corners and all the hardware locations reinforced with special polymeric barsas per drawing including providing special PVC braket on hinge side, etc complete	1 Sqm	2656
767	MAT-01384	BMT-N.55	Supply & Fixing of Powder Coated Mild Steel doors, frames & shutters made of Skin pass galvanized Iron sheet conforming to Base Steel as per IS 513 "D" Quality, Galvanized as per IS 277 with Hot Zinc Coating of 120 grams / Sq.Mtr with powder coating of thickness 60-65 Microns, frame with 1.2mm thick Skin pass Galvanized Iron sheet formed to single rebate profile of ize 100 mm X 58 mm and filled with in-fill Polyurethane foam, the Door Shutters are with 0.80 mm thick Skin pass Galvanized Iron Sheet formed to provide a 46 mm thick fully flush, double skin door shell with Lock Seam joints at stile edges, fitted with in-fill of Honeycomb Kraft Paper and coated with polyester powders of Pure polyester/ epoxy polyester or polyurethane powder for powder coating of thickness 60 – 65 microns and are coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability, the Shutter provided with 6 MM clear float vision glass in Circular, Square or Rectangular shapes, Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame and shutter	1 Sqm	11415

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			(Profile 102x76x3mm thick).Mortise Sash Lock with Lever Handles, Mortise Dead Bolt, etc for industrial, commercial, residential, cleanroom applications		
768	MAT-01385	BMT-N.56	Supply & Fixing of Stainless steel doors, frames & shutters made of stainless steel grade 304 of hairline finish, frame with 1.2mm thick formed to single rebate profile of ize 100 mm X 58 mm and filled with in-fill Polyurethane foam, the Door Shutters are with 0.80 mm thick Stainless steel Sheet formed to provide a 46 mm thick fully flush, double skin door shell with Lock Seam joints at stile edges, fitted with in-fill of Honeycomb Kraft Paper, the Shutter provided with 6 MM clear float vision glass in Circular, Square or Rectangular shapes, Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame and shutter (Profile 102x76x3mm thick).Mortise Sash Lock with Lever Handles, Mortise Dead Bolt, etc for industrial, commercial, residential, cleanroom applications.	1 Sqm	21252
769	MAT-01386	BMT-N.57	Supply & Fixing of Powder Coated Fire Rated doors, frames & shutters made of Skin pass galvanized Iron sheet conforming to Base Steel as per IS 513 "D" Quality, Galvanized as per IS 277 with Hot Zinc Coating of 120 grams / Sq.Mtr with powder coating of thickness 60-65 Microns, frame with 1.2mm thick Skin pass Galvanized Iron sheet formed to double rebate profile of ize 143 mm X 58 mm with maximum bending radius of 1.4 mm and filled with in-fill Polyurethane foam, the Door Shutters are with 0.80 mm thick Skin pass Galvanized Iron Sheet formed to provide a 46 mm thick fully flush, double skin door shell with Lock Seam joints at stile edges, fitted with in-fill of Honeycomb Kraft Paper and coated with polyester powders of Pure polyester/ epoxy polyester or polyurethane powder for powder coating of thickness 60 – 65 microns and are coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability, the Shutter provided with 6 MM clear float vision	1 Sqm	13418

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			glass in Circular, Square or Rectangular shapes, Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame and shutter (Profile 102x76x3mm thick).Mortise Sash Lock with Lever Handles, Mortise Dead Bolt, etc for 120 minutes Fire Rated door conforming to IS:3614 (Part2) 1992		
770	MAT-01387	BMT-N.58	Supply & Fixing of Powder Coated Fire Rated doors, frames & shutters made of Skin pass galvanized Iron sheet conforming to Base Steel as per IS 513 "D" Quality, Galvanized as per IS 277 with Hot Zinc Coating of 120 grams / Sq.Mtr with powder coating of thickness 60-65 Microns, frame with 1.2mm thick Skin pass Galvanized Iron sheet formed to double rebate profile of ize 143 mm X 58 mm with maximum bending radius of 1.4 mm and filled with in-fill Polyurethane foam, the Door Shutters are with 0.80 mm thick Skin pass Galvanized Iron Sheet formed to provide a 46 mm thick fully flush, double skin door shell with Lock Seam joints at stile edges, fitted with in-fill of Honeycomb Kraft Paper and coated with polyester powders of Pure polyester/ epoxy polyester or polyurethane powder for powder coating of thickness 60 – 65 microns and are coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability, the Shutter provided with 6 MM clear float vision glass in Circular, Square or Rectangular shapes, Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame and shutter (Profile 102x76x3mm thick).Mortise Sash Lock with Lever Handles, Mortise Dead Bolt, etc for 60 minutes Fire Rated door conforming to IS:3614 (Part2) 1992	1 Sqm	12760
771	MAT-01388	BMT-N.59	Supply & Fixing of Stainless steel Fire Rated doors, frames & shutters made of Stainless steel of 304 grade hairline finish, frame with 1.2mm thick Stainless steel of 304 grade hairline finish sheet formed to double rebate profile of ize 143 mm X 58 mm with maximum bending radius of 1.4 mm and filled with in-fill Polyurethane foam, the Door	1 Sqm	20800

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			Shutters are with 0.80 mm thick Stainless steel of 304 grade hairline finish Sheet formed to provide a 46 mm thick fully flush, double skin door shell with Lock Seam joints at stile edges, fitted with in-fill of Honeycomb Kraft Paper and coated with polyester powders of Pure polyester/ epoxy polyester or polyurethane powder for powder coating of thickness 60 – 65 microns and are coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability, the Shutter provided with 6 MM clear float vision glass in Circular, Square or Rectangular shapes, Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame and shutter (Profile 102x76x3mm thick). Mortise Sash Lock with Lever Handles, Mortise Dead Bolt, etc for 120 minutes Fire Rated door conforming to IS:3614 (Part2) 1992		
772	MAT-01389	BMT-N.60	Supply & Fixing of Stainless steel Fire Rated doors, frames & shutters made of Stainless steel of 304 grade hairline finish, frame with 1.2mm thick Stainless steel of 304 grade hairline finish sheet formed to double rebate profile of size 143 mm X 58 mm with maximum bending radius of 1.4 mm and filled with in-fill Polyurethane foam, the Door Shutters are with 0.80 mm thick Stainless steel of 304 grade hairline finish Sheet formed to provide a 46 mm thick fully flush, double skin door shell with Lock Seam joints at stile edges, fitted with in-fill of Honeycomb Kraft Paper and coated with polyester powders of Pure polyester/ epoxy polyester or polyurethane powder for powder coating of thickness 60 – 65 microns and are coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability, the Shutter provided with 6 MM clear float vision glass in Circular, Square or Rectangular shapes, Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the	¹ Sqm	18600

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			frame and shutter (Profile 102x76x3mm thick).Mortise Sash Lock with Lever Handles, Mortise Dead Bolt, etc for 60 minutes Fire Rated door conforming to IS:3614 (Part2) 1992		
773	MAT-01390	BMT-N.61	Supply & Fixing of Lead Lined Clean room doors frames and shutters made of Skin pass galvanized Iron sheet (Conform to Base Steel as per IS 513 "D" Quality, Galvanized as per IS 277 with Hot Zinc Coating of 120 grams / Sq.Mtr).with powder coating of thickness 60-65 Microns, frame of 1.60mm thick galvanized steel sheet (Conform to IS 277) formed to Single/double rebate profile of size 100mm X 58mm/ 143x58mm, door frames with a single / multi Layer of Lead sheet varying thickness from 3mm /1mm to 2mm depends on radiation level, the shutter with 1.2 mm thick Galvanized Steel Sheet (Conform to IS 277) formed to provide a 46mm thick fully flush, double skin door shell with Lock Seam joints at stile edges with a single / multi Layer of Lead sheet varying thickness from 3mm /1mm to 2mm depends on radiation level, the lead sheets extend the full width and height of the door, Lead thickness is equal to the shielding in the adjacent wall, the door frames and door shutters are coated with polyester powders of Pure polyester/ epoxy polyester or polyurethane powder for powder coating of thickness 60 – 65 microns, coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability, hardware with Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame and shutter etc complete for finished item	¹ Sqm	15600
774	MAT-01391	BMT-N.62	Supply & Fixing of Lead Lined Stainless steel Clean room door frames and shutters made of Stainless steel grade of 304 hairline finish, frame with 1.60mm (16SWG) thick hairline finish Stainless steel grade of 304 formed to Single/double rebate profile of size 100 mm x 58mm/ 143 x58 mm, door frames with a single / multi	¹ Sqm	24087

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			Layer of Lead sheet varying thickness from 3mm /1mm to 2mm depends on radiation level, the shutter with 1.2 mm thick hairline finish Stainless steel grade of 304 formed to provide a 46mm thick fully flush, double skin door shell with Lock Seam joints at stile edges with a single / multi Layer of Lead sheet varying thickness from 3mm /1mm to 2mm depends on radiation level. The lead sheets extend the full width and height of the door. Lead thickness is to be equal to the shielding in the adjacent wall. Hardware can be provided with Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame and shutter etc complete for finished item of work		
775	MAT-01395	BMT-N.66	ITEM DELETED		
776	MAT-01396	BMT-N.67	<p>A) Specification for Foamed PVC Door Frame & ABS Shutters: Providing of Factory made prelaminated FPVC (Foamed Polyvinyl Chloride) Door frame of the size 105x40mm with a wall thickness of 10mm made out of extruded rigid FPVC profile mitre joined with 6 Nos. of 50mm long screw. The door frame shall be fixed to the wall by using 80mm long screws through the frame with the help of PVC fasteners of 3 no's to be provided for each vertical member, GI stiffners of ("U" chanel of size 29x9x1mm, 150mm long) -3 no's at hinge point, Frame reinforcement of ("U" GI chanel of size 46x22x.06mm), Bottomtie rod of ("U" GI chanel size of 15x15x1mm) etc. complete as per manufacturers specification for finished item of work. Maximum door frame size : 980 x 2070</p> <p>B) Providing of 35mm thick Factory made Prelaminated ABS (Acrolonitrile Butadyne Styrene) Door shutter moulded in different designs, consisting of all round Frame made out of water proof solid foam PVC bar of size 20x32mm, reinforced by 32x 32mm - 2 nos. for vertical made out of LVL (Laminated Veneer Lumber), core material of 32 mm thick high density craft paper honey comb board, sandwiched on both sides with prelaminated ABS sheet thickness of 1.5mm . PVC edge banding of size</p>	Each	15150

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			0.45mm on the vertical sides. Hardware made out of steel coated butterfly hinges - 3 Nos. for each shutter and ISI make S.S round lock completes for finished item of work. Maximum shutter size of : 910 x 2030 mm		
777	MAT-01398	BMT-N.69	Supply and fixing of Bath room / Toilet door shutter with 16mm laminated (IS 14276) door shutter with all-round 'U' lipping of PPS section of size 12mm X 18mmX 12mmX0.6mm thickness with a hardware of 12mm dia X200mm long aluminum aldrop – 2 nos(ISI make)2 No of 125mm long handles(ISI make) and also 3 no Of IS304 grade Patee Hinges 3mmX12mmX180mm long with pole receiver of 10mm dia pole X40mm long welded on 2mm X40mm(ss304) plates works as receiver for RT patte hinges. The price inclusive of all material at site	1 Sqm	2640
778	MAT-01399	BMT-N.70	Supply and fixing of toilet door shutter with frame made of M.S. door frame of 5mmX48mmX48mm (L angel) as all-round frame the frame is coated with one coat of red oxide and two coats of enamel of approved color. For shutter and the shutter is made with 16mm laminatedshutter with all-round 'U' Lipping of PPS section of 12mmX18mmX12mmX0.60mm, along hardware of 200m long and 12mm dia aluminum aldrop(ISI make)2 Nos, 2Nos of 125m m handle, 3 Nos of RT patte hinges IS 304gr SS 2mmX12mmX180mm long with a pole receiver of 10mmDia X 40mm by welded on 3mmX40mm SS 304, plate it works as receiver for RT Patee hinges it is welded to M.S. angle . M.S. angle will be fixed to wall of self expandable screws and caps.	1 Sqm	4100
779	MAT-01402	BMT-N.73	Door shutter with shutter frame and Infill panel made from PVC material conforming to IS: 10151:1982. The shutter frame is made out of PVC extruded sections having overall dimensions of 100mm X 30mm, with two self extruded grooves at 40mm & 50mm on front surface. The Infill panel is made out of multi chambered seamless hollow PVC extruded panel having overall dimensions of 610 mm X 20 mm. The shutter frame shall be meter cut and	Sqm.	1050

S. No	CFMS code	Item Code	Description of item	Unit	- Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			joined at corners by means of plastic brackets. Stickers showing locations of different hardware will be pasted on the shutter. ALL Dimensions are in MM.		
780	MAT-01403	BMT-N.74	The shutter frame made out of PVC extruded section having overall dimensions of 59mm x 24mm with wall thickness of 1.0mm +/-0.3mm with usual process variation corresponding to the Sintex Code No.DWUF-302. The shutter frame is given tapered shape to provide better grip to the infill panel and to drain out the water. The infill panel is made out of seamless one piece multi chambered PVC extruded section having overall dimension of 610mm x 20mm with wall thickness of 1mm +/-0.2mm with usual process variation corresponding to the Sintex code No.SPUF-128. The shutter frame shall be mitre cut and joined at the corner polymeric "L' Type corners shall be provided at the corners to take up hardwares & fixtures and shall be fixed with 19 x 8mm counter sunk fully threaded parallel shank steel screws. All the hardware locations shall be reinforced with special polymeric Bars.	1 Sqm	2050
781to 784		BMT-N.75 to BMT-N.78	ITEMS DELETED		
785	MAT-01338	BMT-N.09	Providing and fixing PVC door cladding to the flush doors shutters. For the new doors it shall be pasted with Fevicol SSR 998 or nailed to the old doors. complete as per direction of Engineer – in – charge, manufacturers specification and drawing - 1 mm thick	1 sqm	385
786	MAT-01339	BMT-N.10	Providing and fixing PVC door cladding to the flush doors shutters . For the new doors it shall be pasted with Fevicol SSR 998 or nailed to the old doors. complete as per direction of Engineer – in – charge, manufacturers specification and drawing - 1.5 mm thick	1 sqm	413
787	MAT-01340	BMT-N.11	Providing and fixing PVC door cladding to the flush doors shutters . For the new doors it shall be pasted with Fevicol SSR 998 or nailed to the old doors. complete as per direction of Engineer – in – charge, manufacturers specification and drawing - 2.0 mm thick	1 sqm	474
788		BMT-N.84	Providing and fixing factory made uPVC		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			<p>white colour casement/Casementcum fixed glazed door comprising of uPVC multi-chambered frame, sashand mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll formingprocess of required length (shape & size according to Upvc profile),uPVC extruded glazing beads of appropriate dimension,EPDMgasket,zinc alloy (white powder coated) 3D hinges and one handle oneach side of panels along with zinc plated mild steel multi point lockinghavingtransmission gear, cylinderwith keeps and one side key, G.lfasteners100 x 8 mm size for fixing frame to finished wall and necessarystainlesssteel screws, etc. Profile of frame & sash shall be mitred cut andfusion welded at all corners, mullion (if required) shall be also fusionweldedincluding drilling of holes for fixing hardware's and drainage ofwater etc.After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required sizeand of approved quality, all complete as per approved drawing & directionof Engineer-in-Charge inclusive of cost of Single / double glass panes and silicon sealent .</p> <p>Note: For uPVC frame, sash and mullion extruded profiles minus 5%tolerance in dimension i.e. in depth & width of profile shall be acceptable.Variation in profile dimension in higher side shall be acceptedbut no extra payment on this account shall be made.</p>		
789	MAT-05437	BMT-N.84.A	Casement door with 3D hinges made of (big series) frame 67x 64 mm & sash 67 x 110 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door upto 2.00 sqm).	1 sqm	8820
790	MAT-05438	BMT-N.84.B	Casement door with top hung ventilator with 3D and S.S. frictionhinges (400 x 19 x 1.9 mm) made of (big series) frame	1 sqm	8900

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			67 x 64 mm, sash 67 x 110 mm & mullion 67 x 80 mm all having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension.(Area of door upto 2.50 sqm)		
791		BMT-N.85	<p>Providing and fixing factory made uPVC white colour sliding glazed door comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension uPVC extruded glazing beads, uPVC extruded interlock and uPVC extruded inline sash adaptor (if required), EPDM gasket, wool pile, zinc alloy (white powder coated) handle with key on one side of extreme panels along with zinc plated mild steel multi point locking having transmission gear with keeps, zinc alloy (white powder coated) crescent lock (if required), stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge inclusive of cost of Single / double glass panes, wire mesh and silicon sealant .</p> <p>Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be</p>		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			made.		
792	MAT-05439	BMT-N.85.A	Two track two panels sliding door made of (big series) frame 67 x 50 mm & sash 46 x 82 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door above 2.00 sqm upto 5.00 sqm)	1 sqm	6100
793	MAT-05440	BMT-N.85.B	Three track three panels sliding door with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 82 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door above 2.00 sqm upto 5.00 sqm)	1 sqm	7500
794	MAT-05441	BMT-N.86	Providing and fixing of factory made of High Density High Moisture Resistant Wood Fibre (HDHMR) single shutter Duradoor made up of FRAME: Door frame manufactured with High Density High Moisture Resistant Wood Fibre (HDHMR) of 36mm width x 100mm depth, laminated with 0.2mm thick PVC Foil using hot press and PUR adhesive, fitted with Gasket for energy efficiency and noise protection, affixed to the wall using high strength expandable PU Foam/ self-expandable wall fixing screws. Max dimensions in MM of 280 (depth) x 2440 (height) SHUTTER: Factory made 41mm thick shutter sandwiched with High Density High Moisture Resistant Wood Fibre (HDHMR) of 5.5mm thick skin on both sides and HDHMR of 30mm thickness as skeleton, core of high density Honey Comb and Laminated Veneer Lumber (LVL) for holding the lock body and hardware, laminated with 0.2mm thick PVC Foil and edge-banded with 1mm thick PVC edge-band using hot press and PUR adhesives. Max dimensions in MM of 1200 (width) x 41 (thickness) x 2400 (height), ARCHITRAVE: Factory made Architrave of size 80mm x 12mm fitted to pre-made grooves within the frame for added aesthetics. Four design variants available, made with Density High Moisture Resistant Wood	1 sqm	11357

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			Fibre(HDHMR) of different thicknesses depending on the design variant, laminated with 0.2mm thickPVC Foil using hot press and PUR adhesive, fitted to the wall using strong quick actingadhesives. HARDWARE & ACCESSORIES: Imported hardware including door handles – 1 no, cylindrical magnetic lock -1 no ,SS hinges – 3 nos. Including cost and conveyance of all material, Hardware, Labour charges and transportation complete for finished item of work		
795	MAT-05442	BMT-N.87	Supply and fixing of Bath/Toilet Door frame and shutter with 8mm laminated (IS.15786)using with 50mmx35mmx1.3mmthick aluminum door frame of weight 220grm per Rftwith a rebate of 30 mm for provision for shutter , shutter made with 45mmx25mmx1.3mm thick aluminum section of weight 210grms per Rft with 8mm groove to accommodate 8mmthick laminated (IS.15786) and shutter having 3nos of ss 304gr Butt hinges of 100mm long, 100mm aluminum handles -2nos, and also 2 nos of 200mmx12mm aluminum aldrops ,the rates inclusive of all labor fixing at site and 50microns Ivory powder coated for aluminum door frame and shutter sections etc complete finished item of work .	1 sqm	5348
796	MAT-05443	BMT-N.92	Providing and fixing 28 -30 MM thick solid Wood Polymer Composite(WPC) single extruded door shutter with 3MM top and bottom rigid layer with an overalldensity of 750kg/Cum. It will be fixed to the frame using 3 inch /4 inch hinges. A minimum of 4 hinges will be required for fixing the door with the frame	1 sqm	3394
797		BMT-N.93	Classroom Door of size of 1200 mm X 2100 mm (Single shutter)(Powder Coated Mild steel doors, frames & shutters)	1 sqm	9922.58
798		BMT-N.94	Toilet Door of Size of 750 mm X 2100 mm (Single shutter) (Powder Coated Mild Steel doors, frames & Shutters)		10320.34
799		BMT-N.95	Differently abled Toilet Door of size of 1200 mm X 2100 mm (Powder Coated Mild steel doors, frames & shutters)		10143.39
800		BMT-N.96	Customized Door (Powder Coated Mild steel doors, frames & shutters)		9922.58

801		BMT-N.97	Supplying and Fixing of uPVC (Unplastered polyvinyl Chloride) windows made of uPVC profile. All sections of frames, sash and mullion shall be reinforced with galvanized mild steel, except but in corners of the windows. (Outer Frame 74x60x56mm) Mullion (72x60x36) uPVC Panel 158x20mm, single glass bead 34x18mm, Panel Glass bead 19x18mm, Bay Pole 60x60mm)		9850
IV.SUB- SECTION			CUP-BOARD DOORS		
802	MAT-01353	BMT-N.24	Supply and fixing of Cement Bonded Particle Board (IS 14276) cup board frames and shutters and using 16mm Cement Bonded Particle Board duly painted both sides with one coat of primer and two coats of synthetic / enamel paint of approved shade and brand including fixing of hardware like M.S. powder coated Piano hinges of size 18mm x 18mm, brass ball catches,	1 sqm	2400

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			Aluminum tower bolts and handles , Godrej locks, Fevicol, screws and nails including cost and conveyance of all materials, labor charges, all incidental and operational charges etc., complete for finished item of work at site as per the directions of Engineer in Charge.		
803	MAT-01358	BMT-N.29	Supply and fixing of Cement Bonded Particle Board (IS 14276) box type cup board using Cement Bonded Particle Board for making frame of size 100mm x 35mm using two sandwiched 16MM boards, one Cement Bonded Particle Board and one CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS with plain 35mm wood lipping. The Shutters are made of 16MM thick CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS (Pre-Laminated Cement Bonded Particle Board) of approved shade inclusive of hardware like M.S. powder coated Piano hinges of size 3/4" x 3/4" , Aluminum powder coated handles of size 4" (101.6mm), Aluminum tower bolt 4" (101.6mm) Godrej locks, screws, wood lipping and Fevicol etc., complete finish item of work.	1 Sqm	3900
804	MAT-01400	BMT-N.71	Supply and fixing of cupboard shutter using teakwood scantling of size 50mm X50mm teakwood as outer frame and 50mm X 30 mm of size teakwood for shutter frames , 8mm thick Bison Lam as panel to each shutter consist of 2 Nos 75mm long tower bolt – 2 nos 75 mm big handle the and other shutter will have 1 no of cupboard lack , 1 No of 75 mm long handle and 75mm10mmX1mm thick SS hinges- 2 Nos for each shutter. The above frame will be fixed to the wall with screws, the rate inclusive of screws, handle, etc., complete at site of work.	1 Sqm	4155
805		BMT-N.89	Supply and fixing of SINGLE PANEL 30mm thick door shutters(NANDI or equivalent) made of rigid PVC extruded hollow section of 20mm X 635mm with the wall thickness of 1.0mm+/- 0.1mm. The shutter frame is made of 30mmX79mm with the wall thickness of 1.5mm +/- 0.15mm section mitre-cut and joined at 4 corners with 125mmX225mm plastic brackets. Teak wood batons shall be reinforced inside the door shutter during the fabrication of the door shutter at those points wherever the hardware is fixed on to the door shutter	1 Sqm	2627

806		BMT-N.90	Supply and fixing of door frame (NANDI or EQUIVALENT) made of hollow extruded PVC section having dimensions of 40 X 57mm with the wall thickness of 2mm +1-0.2mm duly reinforced with seasoned wood plank at the hinges side. The door frame top 2corners shall be metri-cut/ welded. PVC DOOR FRAME	1 Sqm	222
807		BMT-N.91	Supplying & fixing SINGLE PANEL 30mm thick PVC DOOR frame (NANDI or EQUIVALENT), door shutters with shutter frame and Infill panel made from PVC material, the shutter frame made out of PVC extruded sections having overall dimensions of 105 mm x 30 mm with wall thickness of 1.3mm ± 0.3 mm, with the Infill panel made out of multi chambered seamless hollow PVC extruded panel having overall dimensions of 610 mm x 20 mm having wall thickness 1 mm ± 0.2 mm with the shutter frame meter cut and joined at corners and all the hardware locations reinforced with special polymeric bars/wooden Battens as per drawing including providing special PVC bracket/Wooden Battens on hinge side etc complete	1 Sqm	2627
	P.SECTION		WINDOWS (Landing cost – including loading, cost of conveyance, unloading)		
		I.SUB-SECTION	OPENABLE WINDOWS		
808			Supply and fixing of pre-painted steel openable windows base steel as per IS 513 of -0.58 mm thick 'D' quality, galvanized as per IS 277 , finish painted with a polyester paint of 12-16 microns thick and back coated with 5-7 microns thick alkyd backer, section for outer frame of 46 x 52 mm section and for shutter of 46 x 46 mm section for mullion 46 x 70 mm, and section for beading should be 18 x 25 mm with 5 mm thick plain float glass fitted with Ethyl propylene Diamine monomer Gasket (EPDM) and handle made of high grade aluminium powder coated with frames fixed to the concrete /masonry wall by means of self expanding screws including 10 mm square guard bars with 6" pitch complete for finished item of work .		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
809	MAT-01409	BMT-P.01	Windows: Single shutter 2'0" x 4'0" (609.6 x 1219.2 mm) Outer frame section size of 46 x 52 mm shutter frame section size of 46 x 46 mm	1 sqm	6201
810	MAT-01410	BMT-P.02	Windows: Double shutter 3'-0" x 4'-0" (914.4mm x 1219.2 mm) outer frame section size of 46 x 52 mm shutter frame section size of 46 x 46 mm	1 Sqm	6201
811	MAT-01411	BMT-P.03	Windows: Double shutter 3'-0" x 4'-0" (914.4mm x 1219.2 mm) outer frame section size of 46 x 52 mm shutter frame section size of 46 x 46 mm Mullion section size of 46 x 70 mm	1 Sqm	6559
812	MAT-01412	BMT-P.04	Windows: Double shutter 4'-0" x 4'-0" (1219.2x1219.2mm) outer frame section size of 46 x 52 mm shutter frame section size of 46 x 46 mm	1 Sqm	6379
813	MAT-01413	BMT-P.05	Windows: Double shutter 4'-0" x 4'-0" (1219.2x1219.2mm) outer frame section size of 46 x 52 mm shutter frame section size of 46 x 46 mm Mullion section size of 46 x 70 mm	1 Sqm	6379
814	MAT-01414	BMT-P.06	Windows: Double shutter 4'-6" x 4'-6" (1371.6x1371.6mm) outer frame section size of 46 x 52 mm shutter frame section size of 46 x 46 mm Mullion section size of 46 x 70 mm	1 Sqm	5843
815	MAT-01415	BMT-P.07	Windows: Centre fixed both side openable shutter 5'-0" x 4'-0" (1524x1219.2mm) outer frame section size of 46 x 52 mm shutter frame section size of 46 x 46 mm Mullion section size of 46 x 70 mm fixed beading section size of 18 x 25 mm	1 Sqm	5843
816	MAT-01416	BMT-P.08	Windows: Centre fixed both side openable shutter 6'-0" x 4'-0"	1 Sqm	5843

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			(1828.8x1219.2mm) outer frame section size of 46 x 52 mm shutter frame section size of 46 x 46 mm Mullion section size of 46 x 70 mm fixed beading section size of 18 x 25 mm		
817	MAT-01417	BMT-P.09	Windows: Centre fixed both side openable shutter 6'-0" x 4'-6" (1828.8x1371.6mm) outer frame section size of 46 x 52 mm shutter frame section size of 46 x 46 mm Mullion section size of 46 x 70 mm fixed beading section size of 18 x 25 mm	1 Sqm	5843
			Providing and fixing of Openable Windows made of pre-painted steel (Base steel as per IS 513 of 0.58 mm thick galvanized as per IS 277 with Zinc of 120 GSM), primer coated with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with 5-7 microns thick alkyd backer and section for outer frame of 48 x 50 mm, centre mullion of 48 x 50 mm, section for shutter of 48 x 25 mm and the fixed glass beading section should be 12 x 12 mm and the outer frame and mullions to have rebate for glazed shutter with a 20 mm provision for guard bars/grills and the sections cut to length metre joined with corner bracket, centre mullion fixed with mullion cap, handle, stay, 2 nos. of stainless steel heavy duty pivot hinges provided per shutter and windows fitted with 5 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10mm Square guard bars with 6" (152.4mm) pitch etc., complete for finished item of work.		
818	MAT-01424	BMT-P.16	Single shutter Window 2'0"x4'0" (609.6mm x 1219.2mm). Outer frame section size of 48x50mm shutter frame section size of 48 x 25 mm.	1 Sqm	5664
819	MAT-01425	BMT-P.17	Double shutter Window with vertical mullion 3'0" x 4'0" (914.4mm x 1219.2mm) outer frame section size of 48x50mm shutter frame section size of 48 x 25 mm. Mullion section size of 48x50mm.	1 Sqm	6022
820	MAT-01426	BMT-P.18	Double shutter Window with vertical member 4'0" x 4'0" (1219.2mm x	1 Sqm	6022

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			1219.2mm) outer frame section size of 48x50mm shutter frame section size of 48 x 25 mm and mullion section should be of 48x50mm.		
821	MAT-01427	BMT-P.19	Centre fixed both side openable shutter window 5'0"x4'0" (1524mm x1219.2mm). Outer frame section size of 48x50mm. Shutter frame section size of 48 x 25 mm. Mullion section size of 48x50mm. Fixed beading section size of 12x12mm.	1 Sqm	5167
822	MAT-01428	BMT-P.20	Centre fixed both side openable shutter window 6'0"x4'0" (1828.8mm x1219.2mm). Outer frame section size of 48x50mm. Shutter frame section size of 48 x 25 mm. Mullion section size of 48x50mm. Fixed beading section size of 12 x 12mm.	1 Sqm	5167
			Providing & Fixing of Openable Windows with Fly-mesh made of pre-painted steel (Base Steel as per IS 513 of 0.58 mm thick galvanized as per IS 277 with zinc of 150 GSM) primer coated with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with 5-7 microns thick alkyd backer and the section for outer frame of 72 x 55mm, centre mullion of 72 x 50mm, section for fixed glass beading section of 12 x 12 mm and section for shutters of 48 x 25 mm and outer frame & mullion sections with rebate for glazed shutters, fly mesh and a 20 mm provision for guard bars/grills and fly mesh shutter section of 20 x 40 mm and the sections cut to length metre joined with corner bracket, centre mullions fixed with mullion cap, stay, handles, latch 2 Nos of heavy duty stainless steel pivot hinges per shutter and panelled with 5mm thick plain float glass and S.S. Mesh for fly mesh shutter (304 grade), fitted using rubber gaskets including fixing the windows in the concrete/masonry wall by means of self expanding screws, including 10mm Square guard bars with 6" (152.4mm) pitch , complete for finished item of work		
823	MAT-01429	BMT-P.21	Single shutter Window 2'0"x4'0" (609.6mm x 1219.2mm). Outer frame section size of 72x50mm shutter frame section size of 48 x 25 mm.	1 Sqm	6956

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
824	MAT-01430	BMT-P.22	Double shutter Window with vertical mullion 3'0" x 4'0" (914.4mm x 1219.2mm) outer frame section size of 72x50mm shutter frame section size of 48 x 25 mm. Mullion section size of 72x50mm.	1 Sqm	7288
825	MAT-01431	BMT-P.23	Double shutter Window with vertical member 4'0" x 4'0" (1219.2mm x 1219.2mm) outer frame section size of 72x50mm shutter frame section size of 48 x 25 mm and mullion section should be of 72x50mm.	1 Sqm	7288
826	MAT-01432	BMT-P.24	Centre fixed both side openable shutter window 5'0"x4'0" (1524mm x1219.2mm). Outer frame section size of 72x50mm. Shutter frame section size of 48 x 25 mm. Mullion section size of 72x50mm. Fixed beading section size of 12 x 12 mm.	1 Sqm	6625
827	MAT-01433	BMT-P.25	Centre fixed both side openable shutter window 6'0"x4'0" (1828.8mm x1219.2mm). Outer frame section size of 72x50mm. Shutter frame section size of 48 x 25 mm. Mullion section size of 72x50mm. Fixed beading section size of 12 x 12 mm.	1 Sqm	5897
828	MAT-01438	BMT-P.30	ITEM DELETED		
829	MAT-01439	BMT-P.31	ITEM DELETED		
830	MAT-01440	BMT-P.32	Galvanized powder coated Casement Windows with openable shutters duly manufactured using pressed steel sections in mild steel conforming to IS 513 of having 1.0 mm thick and galvanized as per IS 277 of 120 GSM surface treatment with pure polyester powder coating of 30-40 microns thick and section for outer frame of 60x50mm, centre for mullion of 62x50mm, section for shutter of 52 x 22 mm, outer frame and mullions to have one side rebate for glazed shutter of size 24 mm and 10x10 mm square guard bars provided at 125 mm c/c the sections assembled with bolt & nut assembly with zinc-electroplated M-5 bolts, GI Handle of size 80 mm x 15 mm -1 No per shutter, 2 nos of stainless steel heavy duty pivot hinges of size 3" of SS 304 Grade per shutter, window panes with 5 mm thick plain float glass and fixed with glass beading section of 10x12 mm size with 0.8 mm thick	1 Sqm	5529

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			powder coated aluminium 'U' channel and window frames fixing to the concrete/masonry wall arrangement with self expanding screws, complete for finished item of work - 1220 x 1372 or below size		
831	MAT-01441	BMT-P.33	Galvanized powder coated Casement Windows with openable shutters duly manufactured using pressed steel sections in mild steel conforming to IS 513 of having 1.0 mm thick and galvanized as per IS 277 of 120 GSM surface treatment with pure polyester powder coating of 30-40 microns thick and section for outer frame of 60x50mm, centre for mullion of 62x50mm, section for shutter of 52 x 22 mm, outer frame and mullions to have one side rebate for glazed shutter of size 24 mm and 10x10 mm square guard bars provided at 125 mm c/c the sections assembled with bolt & nut assembly with zinc-electroplated M-5 bolts, GI Handle of size 80 mm x 15 mm -1 No per shutter, 2 nos of stainless steel heavy duty pivot hinges of size 3" of SS 304 Grade per shutter, window panes with 5 mm thick plain float glass and fixed with glass beading section of 10x12 mm size with 0.8 mm thick powder coated aluminium 'U' channel and window frames fixing to the concrete/masonry wall arrangement with self expanding screws, complete for finished item of work - 1530 x 1372 or above size	1 Sqm	4954
832	MAT-01442	BMT-P.34	Galvanized powder coated Casement Windows with openable shutters duly manufactured using pressed steel sections in mild steel conforming to IS 513 of having 1.0 mm thick and galvanized as per IS 277 of 120 GSM surface treatment with pure polyester powder coating of 30-40 microns thick and section for outer frame of 88x50mm, centre for mullion of 62x88 mm, section for glass and fly-proof mesh shutter of 52 x 22 mm, outer frame and mullions to have two sides rebate for glazed shutter of size 24 mm and 10x10 mm square guard bars provided at 125 mm c/c the sections assembled with bolt & nut assembly with zinc-electroplated M-5 bolts, GI Handle	1 Sqm	6947

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			of size 80 mm x 15 mm -1 No per shutter, 2 Nos of stainless steel heavy duty pivot hinges of size 3" of SS 304 Grade per shutter, window panes with 5 mm thick plain float glass and fixed with glass beading section of 10x12 mm size with 0.8 mm thick powder coated aluminium 'U' channel and fly-proof mesh of SS 304 grade fixed with 18 mm x 12 mm BT wood beading and window frames fixing arrangement to the concrete/masonry wall with self expanding screws, complete for finished item of work - 1220 x 1372 or below size		
833	MAT-01443	BMT-P.35	Galvanized powder coated Casement Windows with openable shutters duly manufactured using pressed steel sections in mild steel conforming to IS 513 of having 1.0 mm thick and galvanized as per IS 277 of 120 GSM surface treatment with pure polyester powder coating of 30-40 microns thick and section for outer frame of 88x50mm, centre for mullion of 62x88 mm, section for glass and fly-proof mesh shutter of 52 x 22 mm, outer frame and mullions to have two sides rebate for glazed shutter of size 24 mm and 10x10 mm square guard bars provided at 125 mm c/c the sections assembled with bolt & nut assembly with zinc-electroplated M-5 bolts, GI Handle of size 80 mm x 15 mm -1 No per shutter, 2 Nos of stainless steel heavy duty pivot hinges of size 3" of SS 304 Grade per shutter, window panes with 5 mm thick plain float glass and fixed with glass beading section of 10x12 mm size with 0.8 mm thick powder coated aluminium 'U' channel and fly-proof mesh of SS 304 grade fixed with 18 mm x 12 mm BT wood beading and window frames fixing arrangement to the concrete/masonry wall with self expanding screws, complete for finished item of work - 1530 x 1372 or above size	1 Sqm	6386
834	MAT-01444	BMT-P.36	Providing & Fixing of Mesh windows made of pre-painted steel (Base Steel as per IS 513 of 0.58mm thick galvanized as per IS 277 with zinc of 120 GSM), primer coated with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with 5-7	1 Sqm	4636

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			microns thick alkyd backer, section for outer frame of 47 x 36 mm, centre mullion of 60 x 36 mm, section mesh beading 18 x 6 mm and Fly mesh shutter section of 20 x 40 mm, the sections cut to length meter joined with corner bracket and centre mullions fixed with mullion cap, handles, latch, 2 Nos of heavy duty stainless steel pivot hinges per S.S. Mesh for fly mesh shutter (304 grade) including fixing the frames in the concrete/masonry wall by means of self expanding screws complete for finished item of work.		
			Providing and fixing of Openable / Casement Windows made of pre-painted steel (Base steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 with Zinc of 120 GSM), finish painted with a polyester paint of 60-65 microns thick and section for outer frame of 80 x 45 mm, centre mullion of 80 x 60 mm, section for shutter of 52 x 25 mm x 0.6 mm thick, outer frame and mullions to have rebate for glazed shutter with a provision for guard bars/grills and the sections cut to length metre joined with corner bracket, centre mullion fixed with mullion cap, 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and windows fitted with 4 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10 mm Square guard bars with 6" (152.4mm) pitch etc., complete for finished item of work.		
835	MAT-01454	BMT-P.46	Single openable shutter window size of 2' 0" x 4' 0" (609.6 x 1219.2mm) outer frame section size of 80 x 45mm, shutter frame section size of 52 x 25mm thick	1 sqm	4948
836	MAT-01455	BMT-P.47	Double openable shutter window Size of 3' 0" x 4' 0" (914.4mm x 1219.2mm) outer frame section size of 80 x 45mm, shutter frame section size of 52 x 25mm, vertical mullion section size of 80 x 60 mm	1 sqm	5261
837	MAT-01456	BMT-P.48	Double openable shutter window size of 4'0" x 4'0" (1219.2mm x 1219.2mm)	1 sqm	5261

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			outer frame section size 80 x 45mm, shutter frame section size of 52 x 25 mm ,Vertical mullion section size of 80 x 60 mm		
838	MAT-01457	BMT-P.49	Double Openable Shutter and Center Fixed window of size 5'0 x 4'0 (1524 x 1219.2mm)outer frame section size of 80mm x 45mm, shutter frame section size of 52 x 25mm ,Vertical mullion section size of 80 x 60 mm, beading section size of 9 x 12mm to be provided for glass holding	1 sqm	4636
839	MAT-01458	BMT-P.50	Double Openable Shutter and Center Fixed window of size 6'0 x4'0 (1829.6 x 1219.2mm)outer frame section size of 80mm x 45mm , shutter frame section size of 52 x 25mm ,Vertical mullion section size of 80 x 60 mm, beading section size of 9 x 12mm to be provided for glass holding	1 sqm	4636
			Note: The above rates are for normal finish, 10% extra may be allowed for Wood Grain finish		
			Providing and fixing of Openable / Casement Windows with fly mesh made of pre-painted steel (Base steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 with Zinc of 120 GSM), finish painted with a polyester paint of 60-65 microns thick and section for outer frame of 100 x 45 mm, centre mullion of 100 x 60 mm, section for shutter of 52 x 25 mm x 0.6 mm thick, section for fly-shutter of 52 x 25 mm x 0.6 mm thick and fitted with stainless steel 32 gauge fly mesh of 304 grade with 144 holes per sq.inch and mullions to have double rebate for glazed shutter and fly-shutter with a provision for guard bars/grills and the sections cut to length metre joined with corner bracket, centre mullion fixed with mullion cap, 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and windows fitted with 4 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10 mm Square guard bars with 6" (152.4mm) pitch etc., complete for finished item of work.		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
840	MAT-01459	BMT-P.51	Single openable shutter window size of 2' 0" x 4' 0" (609.6 x 1219.2mm) outer frame Double rebate section size of 100 x 45mm, Glazed and flymesh shutter profile section size of 52 x 25mm	1 sqm	6564
841	MAT-01460	BMT-P.52	Double openable shutter window Size of 3' 0" x 4' 0" (914.4mm x 1219.2mm) outer frame Double rebate section size of 100 x 45mm, Glazed and flymesh shutter profile section size of 52 x 25mm, vertical mullion section size of 100 x 60 mm	1 sqm	6875
842	MAT-01461	BMT-P.53	Double openable shutter window size of 4'0" x 4'0" (1219.2mm x 1219.2mm) outer frame Double rebate section size of 100 x 45mm, Glazed and flymesh shutter profile section size of 52 x 25mm, vertical mullion section size of 100 x 60 mm	1 sqm	6875
843	MAT-01462	BMT-P.54	Double Openable Shutter and Center Fixed window of size 5'0 x 4'0 (1524 x 1219.2mm)outer frame section size of 80mm x 45mm , shutter frame section size of 52 x 25mm ,Vertical mullion section size of 100 x 60 mm , beading section size of 9 x 12mm to be provided for glass holding	1 sqm	6486
844	MAT-01463	BMT-P.55	Double Openable Shutter and Center Fixed window of size 6'0 x4'0 (1829.6 x 1219.2mm)outer frame section size of 80mm x 45mm , shutter frame section size of 52 x 25mm ,Vertical mullion section size of 100 x 60 mm , beading section size of 9 x 12mm to be provided for glass holding	1 sqm	6252
			Note: The above rates are for normal finish, 10% extra may be allowed for Wood Grain finish		
845	MAT-01481	BMT-P.73	ITEM DELETED		
			Supplying and fixing of WINDOWS with Pre laminated Cement Bonded Particle boards and Pre-Painted Steel Sections (PPS)fabricated from pre-painted Cold rolled formed sections made of galvanized steel color coated sections (Base steel as per IS-512 D quality, galvanized as per IS-277 with Zinc of 120 gram/sqm) with total coated thickness of 0.58mm primer coated with epoxy primer of 5-7 microns thick, finish painted with polyester paint of		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			12-16 microns and back coated with alkyd backer of 5-7 microns), sections for outer frame and centre mullion (duly filled with PU foam of 40 kg/Cum) of 60mm x 50mm, with provision for fixing glazed shutter and the section for glazed/paneled of size 48 mm x 25 mm and another section of size 60 mm x 23 mm provided for separating glazed and paneled portion, the section cut to length and miter jointed with plastic corner brackets and with corner brackets for window outer frames of 50mm x 60mm, the mullion section fixed to the frame with plastic mullion cap and stiffener plates of size 60 mm x 50 mm made of 1.25mm thick CRCA electroplated provided to fix window frames to concrete/masonry, gasket for fixing glass and 10mm both sides pre-laminated cement bonded particle board and 5 mm thick color pin headed glass provided for glazing and providing guard bars of 10 mm square rods duly welded at 150 mm pitch to MS flat section of size 18 mm and 3 mm thick, and fixed to wall by means of self expansion nylon Cap (75) and electroplated wooden screws of size 100 mm, together with aluminum powder coated fittings, A) 75mm long grip handles 1 no per shutter, B) 75 mm long tower bolts 2 nos. per shutter, C) Heavy duty SS Pivot hinges 2 no's per shutter, D) MS Powder coated telescopic stay 1 no per shutter.		
846	MAT-01484	BMT-P.76-A	Pre Laminated Cement Bonded Particle Board WINDOWS – Single shutter 2'0"x4'0" outer frame section size of 50mm x 60mm shutter frame section size of 48mm x 25mm.	1 Sqm	5813
847	MAT-01485	BMT-P.76-B	Pre Laminated Cement Bonded Particle Board WINDOWS –Double shutter 3'0" x 4'0" outer frame section size of 50mm x 60mm shutter frame section size of 48mm x 25mm mullion section size of 50mm x 60mm for outer frame.	1 Sqm	5868
848	MAT-01486	BMT-P.76-C	Pre Laminated Cement Bonded Particle Board WINDOWS – Double shutter 3'0" x 3'0" outer frame section size of 50mm x 60mm shutter frame section size of 48mm x 25mm Mullion section size of 50mm x 60mm for outer frame.	1 Sqm	6103

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
849	MAT-01487	BMT-P.76-D	Pre Laminated Cement Bonded Particle Board WINDOWS – Double shutter 4'0"x4'0" outer frame section size of 50mm x 60mm shutter frame section size of 48mm x 25mm Mullion section size of 50mm x 60mm for outer frame.	1 Sqm	5645
		II.SUB-SECTION	SLIDING WINDOWS		
850	MAT-01434	BMT-P.26	<p>Providing and fixing Pre painted Steel sliding Window/Door fabricated from roll formed sections made of Galvanized steel colour coated /powder coated (Base Steel as per IS 513 'D' quality galvanized as per IS 277 with Zinc of 120 Gms./ Sq.mtr) with total coated thickness of 0.58mm. Primer Coat with epoxy primer of 5-7 microns thick, finished paint with a polyester paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns or powder coated with pure polyester powder up to 50-60 microns thick.</p> <p>The External Section for two track Sliding Window should be of 44 x 59mm with a provision for bottom track insert profile of 10x9 mm made of aluminium. Section for Window glass shutter should be of 35x49mm, Section for Window Euro groove should be of 25x24mm made of plastic to accommodate standard accessories, and section for window lap strip should be of 21x4mm made of plastic.</p> <p>Section for Door shutter should be of 35x67mm, Section for Door Euro Groove 25x31mm made of plastic to accommodate standard accessories and size of lap strip should be of 39x41mm.</p> <p>The Window/Door to be panelled with 5mm thick plain float glass. The gaskets are to be made of Ethyl Propylene Diamine Manomer [EPDM]. Corner Brackets for internal and external frame to be made of glass filled nylon. Touch lock to be provided for Window Shutter. Sections are to be cut to length, joined and assembled by means of corner brackets. The above frame to be fixed to Brick/Concrete masonry by using Nylon self-expanding caps and driving MS electroplated 80mm screws into the caps through frames. The Grill for safety for windows to be made of 10mm thick square rod bars with 152mm pitch for</p>	1 Sqm	6992

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			complete item of work . For Door there will be no Safety Grill including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.		
851	MAT-01435	BMT-P.27	ITEM DELETED		
852	MAT-01436	BMT-P.28	ITEM DELETED		
853	MAT-01437	BMT-P.29	ITEM DELETED		
854	MAT-01445	BMT-P.37	Providing and fixing COMPOSITE SLIDING WINDOW fabricated from roll formed sections made of Galvanized Steel colour Coated/Powder Coated (Base Steel as per IS 513 "D" quality, Galvanized as per IS 277 with Zinc of 120 grams /Sq.Mtr.) with total coated thickness of 0.58 mm, powder coated with pure Polyester Powder up to 50-60 microns thick and the section for external frame bottom of 68 x 25mm (Aluminium), External frame sides & Top of 68 x 25 mm (Aluminium), section for shutter of 59 x 23mm and Lap Strip of 30 x 7.5mm (uPVC) cut to length and mitre joined with L-bracket and 5 mm plain float Galss with Ethyl Propylene Diamine Monomer (EPDM) gasket, the corner bracket for external frame made of Aluminium 'L'-Angle, Corner Bracket for internal frame made of Polypropylene, Crescent Latch, Rollers, & EPDM Gaskets for shutters, wool pile for lap strip, Bump Stop Base & Rubber for shutter stopper including fixing to brick/concrete masonry using Nylon self-expanding caps and driving MS electroplated 80mm long screws into the caps through frames and fixing 10mm square guard bars with 6" pitch centre to centre (152.4mm) completed for finished item of work	1 Sqm	5789
			Providing and fixing of Two shutter Sliding Windows made of Galvanized Steel (Base Steel as per IS 513, D quality, galvanized as per IS 277 with Zinc of 120 GSM), using factory made section powder coated with Pure polyester powder upto 50-60 microns thick with total coated thickness of 0.58 mm for Outer Frame and 0.58 mm thickness for Sliding Shutter Section, the Outer Frame for Two Tracks with Grill		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			provision size of 90 mm x 50 mm and without grill provision is of 75 mm x 50 mm and the Window Shutter section of 0.58 mm x 36 mm and the outer Frame with two integrated guide tracks of 12mm width and 24mm deep for provision to slide the Shutter / sash frame and facilitates with a water drain outlet component made of PVC and the shutter frame fitted with 5mm thick plain float glass of reputed make and fixed with EPDM weathering seal resistant accessories and handle made of Aluminium 1 No. per each shutter and cut to length miter joined with corner brackets including installation of window system at site using anchor fasteners, Silicon sealant applied at the Outer frame corners inclusive of conveyance of all materials accessories, labour charges, and erection at site with complete finished item of work.		
855	MAT-01446	BMT-P.38	a) Window with Two Sliding Shutters and without Grill Outer Frame Size 75 mm x 50 mm.	1 Sqm	6030
856	MAT-01447	BMT-P.39	b) Window with Two Sliding Shutters and with Grill Outer Frame Size 90 mm x 50 mm have a rebate of 15mm x 5 mm to fit grill made of 10mm MS Sq Rods for horizontal bars welded at a regular pitch of 150mm to 12mm x 6 mm MS flat.	1 Sqm	6324
			Providing and fixing of Three shutter Sliding Windows made of Galvanized Steel (Base Steel as per IS 513, D quality, galvanized as per IS 277 with Zinc of 120 GSM), using factory made section powder coated with Pure polyester powder upto 50-60 microns thick with total coated thickness of 0.58 mm for Outer Frame and 0.58 mm thickness for Sliding Shutter Section, the Outer Frame for three tracks with grill provision size of 105 mm x 50 mm and without grill provision is of 90 mm x 50 mm and the Window Shutter section of 58 mm x 36 mm and the outer Frame with two integrated guide tracks of 12mm width and 24mm deep for provision to slide the Shutter / sash frame and facilitates with a water drain outlet component made of PVC and the shutter frame fitted with 5mm thick plain		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			float glass of reputed make and fixed with EPDM weathering seal resistant accessories and handle made of Aluminium 1 No. per each shutter and cut to length miter joined with corner brackets including installation of window system at site using anchor fasteners, Silicon sealant applied at the Outer frame corners inclusive of conveyance of all materials accessories, labour charges, and erection at site with complete finished item of work.		
			Window with 3 shutters (center fixed shutter / Center sliding shutter / center Fly mesh shutter) and with Grill Window made of Outer Frame of Size 105 mm x 50 mm. Grill made of 10mm MS Square Rods for horizontal bars at a regular pitch of 150mm welded to MS flat of 12 x 6 mm.		
857	MAT-01448	BMT-P.40	i) Center Shutter Fixed: center shutter frame made of section with size 20mm x 47mm should be fitted with 5mm thick plain float glass of reputed make, EPDM gasket all around the glass and fixed to the Outer Frame with the supporting section of size 29mm x 20mm of 0.58mm thick fixed horizontally on top and bottom of the shutter frame.	1 Sqm	6035
858	MAT-01449	BMT-P.41	ii) Center Shutter Sliding: center shutter frame made of section of size 20mm x 47mm should be fitted with 5 mm thick plain float glass of reputed make. The supporting guide section of size 15mm x 19mm of 0.58mm thick fixed horizontally at top and bottom of shutter frame and slides along the bottom and top guide tracks made of sections size 24mm x 20mm of 0.58mm thick and 29mm x 20mm of 0.58mm thick	1 Sqm	6872
859	MAT-01450	BMT-P.42	iii) Center Fly mesh Shutter Sliding: Section for Fly mesh Shutter frame should be of size 20mm x 40mm of 0.58mm thick and fitted with SS mesh (304 Grade). The supporting guide section of size 29mm x 20mm of 0.58mm thick at the bottom and 15mm x 19mm of 0.58mm thick at the top fixed horizontally to the Fly mesh frame and slides along the bottom and top guide tracks made of sections size 20mm x 20mm of 0.58mm and 29mm x 20mm of 0.58mm.	1 Sqm	6872

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			Window with 3 shutters (Center fixed shutter / Center sliding shutter / center Fly mesh shutter) and without Grill Window made of Outer Frame of size 90mm x 50mm.		
860	MAT-01451	BMT-P.43	i) Center Shutter Fixed: center shutter frame made of section with size 20mm x 47mm of 0.58mm thick should be fitted with 5mm thick plain float glass of reputed make, EPDM gasket all around the glass and fixed to the Outer Frame with the supporting section of size 29mm x 20mm of 0.58mm thick fixed horizontally on top and bottom of the shutter frame.	1 Sqm	5625
861	MAT-01452	BMT-P.44	ii) Center Shutter Sliding: center shutter frame made of section with size 20mm x 47mm of 0.58mm thick should be fitted with 5 mm thick plain float glass of reputed make. The supporting guide section of size 15mm x 19mm of 0.58mm thick fixed horizontally at top and bottom of shutter frame and slides along the bottom and top guide tracks made of sections size 24mm x 20mm of 0.58mm thick and 29mm x 20mm of 0.58mm thick.	1 Sqm	6172
862	MAT-01453	BMT-P.45	iii) Center Fly mesh Shutter Sliding: Section for Fly mesh shutter frame should be of size 20mm x 40mm and fitted with SS mesh (304 Grade). The supporting guide section of size 29mm x 20mm of 0.58mm thick at the bottom and 15mm x 19mm of 0.58mm thick at the top fixed horizontally to the Fly mesh frame and slides along the bottom and top guide tracks made of sections size 20mm x 20mm of 0.58mm thick and 29mm x 20mm of 0.58mm thick.	1 Sqm	6172
835 to 837		BMT-P.70 to P.72	ITEM DELETED		
838		BMT-P.78	Providing and fixing factory made uPVC white colour casement/casementcum fixed glazed windows comprising of uPVC multi-chambered frame,sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from rollforming process of required length (shape & size according to uPVCprofile), uPVC extruded glazing beads of appropriate		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			<p>dimension, EPDMgasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge inclusive of cost of Single / double glass panes and silicon sealant .</p> <p>Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.</p>		
867	MAT-05444	BMT-P.78.A	<p>Casement window double panels with top fixed with S.S. friction hinges (350 x 19 x 1.9 mm) made of (small series) frame 47 x 50mm, sash 47 x 68 mm & mullion 47 x 68 mm all having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window upto 2.50 sqm).</p>	Sqm	6722
868	MAT-05445	BMT-P.78.B	<p>Casement cum fixed panel window having both end single casement panel, middle fixed panels and at top completely fixed ventilator with S.S friction hinges (350 x 19 x 1.9) made of (big series) frame 67 x 60 mm , sash 67 x 80 mm & mullion 67 x 80 mm all having wall thickness of 2.3 ± 0.2 mm and single glazing bead/double glazing bead of appropriate dimension. (Area of window above 3.00 sqm upto 5.00 sqm).</p>	Sqm	6973
	MAT-05446	BMT-P.79	<p>Providing and fixing factory made uPVC white colour fixed glazed windows / Ventilators comprising of uPVC multi-</p>		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			<p>chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicone sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge inclusive of cost of Single / double glass panes and silicon sealant.</p> <p>Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.</p>		
869			Fixed windows / Ventilators made of (small series) frame 47 x 50mm & mullion 47 x 68 mm both having wall thickness of 1.9 ±0.2 mm and single glazing bead of appropriate dimension.	1 Sqm	6238
870		BMT-P.80	<p>Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white</p>		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			<p>powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screw setc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge inclusive of cost of Single / double glass panes, wire mesh and silicon sealant .</p> <p>Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.</p>		
871	MAT-05447	BMT-P.80.A	<p>Two track two panels sliding window made of (small series) frame 52 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window upto 1.75 sqm)</p>	1 Sqm	6460
872	MAT-05448	BMT-P.80.B	<p>Three track three panels sliding window with fly proof SS wire mesh (Two nos. glazed & one no. wire mesh panels) made of (small series) frame 92 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension (Area of window upto 1.75 sqm).</p>	1 Sqm	8622
873	MAT-05449	BMT-P.80.C	<p>Two track two panels sliding window made of (big series) frame 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension . (Area of window above 1.75 sqm)</p>	1 Sqm	6655

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			upto 2.50 sqm).		
874	MAT-05450	BMT-P.81	<p>Providing and fixing factory made uPVC white colour sliding glazed window above 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from rollforming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads, uPVC extruded interlocks and uPVC extruded Inline sash adaptor (if required),</p> <p>EPDM gasket, wool pile, zinc alloy (white powder coated) handle on one side of extreme panel along with zinc plated mild steel multi pointlocking having transmission gear with keeps, zinc alloy (white powdercoated) touch lock with hook (if required for wire mesh panel), stainlesssteel (SS 304 grade) body with adjustable double nylon rollers (weightbearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc.</p> <p>After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge inclusive of cost of Single / double glass panes, wire mesh and silicon sealant .</p> <p>Two track two panels sliding window made of (big series) frame 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 2.50 sqm upto 4.00 sqm.)</p> <p>Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be</p>	1 Sqm	6606

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			acceptable.Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.		
		BMT-P.82	Double Skin powder coated GI openable/casement single rebate Windows with 5mm thick Polycarbonate sheet SIZE OF WINDOW 1.50 M X 1.35M (three openable shutters) Providing and fixing of powder coated Openable/Casement GI Window of size 1.50mx1.35m (three openable shutters). Window frame having two horizontals & four verticals (Base steel as per IS513 of 0.60mm thick galvanized as per IS 277withZinc of 120 GSM), powder coated paint of 60-65microns(DFT) thick and section for double Skin outer frame of 80 mm x 65 mm x 0.6mm thick including architrave of 20mm,centre mullions of 80mm x 60mm x 0.6mm thick and section for Double Skin shutter of 52mm x25 mm x 0.6 mm thick, outer frame and mullions to have rebate for glazed shutter and the sections cut to length metre joined with corner bracket, center mullion fixed with mullion cap, shutter with 5mmthick Polycarbonate Solid clear UV resistant sheet of reputed make (UV stabilized, transparent & solid section) with EPDM rubber gaskets including fixing the frames in concrete/masonry wall by means of self-expanding screws, Including 10mm Square guard bars with 14Nos horizontals & two verticals, beading section size of 9 x12mm to be provided in shutter for Polycarbonate sheet holding, including infill material of polyurethane foam (PUF) and all fixers like 100mm long SS handle -3 Nos, 125mm long SS tower bolts-6Nos, 75mm long SS ball bearing butt Hinges-9Nos, 200mm long SS latch type window stopper -3Nos (all fixers should be stainless steel 304 grade) including all stiffeners ,supporting plates, SS 304 screws, Nylon caps, EPDM rubber gasket etc., complete for finished item of work. and including cost & conveyance of all materials and all labour charges like loading, unloading, and fixing of powder coated Galvanized Steel Window etc., complete for finished item of work. Window Frame: Frame having four verticals & two horizontals, around frame section of size;80mmx65mm x 0.6mm thick including architrave of 20mm and center mullions section of size; 80mmx60mm x0.6mm	1 Sqm	12443.00

			<p>thick. (2Nos), with single rebate. Shutters (3 Nos): Shutter section of size 52mm x25 mm x 0.6 mm thick with 5mm thick Polycarbonate Solid Clear UV resistant sheet of reputed make (UV stabilized, transparent & solid section) Infill Material: polyurethane foam (PUF) Grill : Grill having 14 Nos of 10mm sq rods (horizontal) and 2Nos of 10mm Sq rods (verticals), 10mm sq rods should be inserted into outer frame & center mullions as directed by the Engineering in charge, Fixers: 100mm long SS handle -3 Nos, 125mm long SS tower bolts-6 Nos, 75mm long SS ball bearing butt Hinges 9 Nos, 200mm long SS latch type window stopper -3 Nos Note ; all fixers should be stainless steel 304</p> <p>Shall confirm to the BIS codes: -IS 1038:1983: Steel doors and windows, IS 4351:2003: Steel Door and window shutters, IS 13871:1993: Powder coating, IS 277: Galvanized Steel Sheets, IS 513: Cold reduced low carbon steel sheets IS ; 1081: Fixing and glazing of Steel Doors and Windows, IS 14443 (1997): Polycarbonate sheets and all other relevant codes of BIS. This Item shall carry a warranty period of 5 (Five) Years from the date of supply and fixing.</p>		
		III.SUB-SECTION	VENTILLATORS		
			<p>Providing and fixing of top hung Ventilators made of pre-painted steel (Base steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 with Zinc of 120 GSM), finish painted with a polyester paint of 60-65 microns thick and section for outer frame of 80 x 45 mm, centre mullion of 80 x 60 mm, section for shutter of 52 x 25 mm x 0.6 mm thick, outer frame and mullions to have rebate for glazed shutter with a provision for guard bars/grills and the sections cut to length metre joined with corner bracket, centre mullion fixed with mullion cap, 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and windows fitted with 4 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10 mm Square guard bars with 6" (152.4mm) pitch etc., complete for finished item of work.</p>		

875	MAT-01464	BMT-P.56	Single openable ventilator shutter size of 2' 0" x 2' 0" (609.6 x 609.6mm) outer frame section size of 80 x 45mm, shutter frame section size of 52 x 25mm thick	1 sqm	5938
876	MAT-01465	BMT-P.57	Double openable ventilator shutter Size of 4' 0" x 2' 0" (1219.2mm x 609.6mm) outer frame section size of 80 x 45mm, shutter frame section size of 52 x 25mm, vertical mullion section size of 80 x 60 mm	1 sqm	5938
877	MAT-01466	BMT-P.58	Double openable fix shutter size of 4'0" x 3'0" (1219.2mm x 914.4mm) outer frame section size of 80 x 45mm , shutter frame section size of 52 x 25 mm ,Vertical mullion section size of 80 x 60 mm	1 sqm	5938
878	MAT-01467	BMT-P.59	Single fixed Louvers Ventilator size of 2' 0" x 2' 0" (609.6 x 609.6mm) outer frame box section size of 80 x 45mm	1 sqm	4062

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
879	MAT-01468	BMT-P.60	Double fixed Louvers ventilator Size of 4' 0" x 2' 0" (1219.2mm x 609.6mm) outer frame box section size of 80 x 45mm, vertical mullion section size of 80 x 60 mm	1 sqm	4062
880	MAT-01469	BMT-P.61	Double fixed Louvers Ventilator size of 4'0" x 3'0" (1219.2mm x 914.4mm) outer frame box section size of 80 x 45mm , Vertical mullion section size of 80 x 60 mm	1 sqm	4062
			Note: The above rates are for normal finish, 10% extra may be allowed for Wood Grain finish		
			Providing and fixing of top hung Ventilator with fly mesh made of pre-painted steel (Base steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 with Zinc of 120 GSM), finish painted with a polyester paint of 60-65 microns thick and section for outer frame of 100 x 45 mm, centre mullion of 100 x 60 mm, section for shutter of 52 x 25 mm x 0.6 mm thick, section for fly-shutter of 52 x 25 mm x 0.6 mm thick and fitted with stainless steel 32 gauge fly mesh of 304 grade with 144 holes per sq.inch and mullions to have double rebate for glazed shutter and fly-shutter with a provision for guard bars/grills and the sections cut to length metre joined with corner bracket, centre mullion fixed with mullion cap, 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and windows fitted with 4 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10 mm Square guard bars with 6" (152.4mm) pitch etc., complete for finished item of work.		
881	MAT-01470	BMT-P.62	Single openable ventilator shutter window size of 2' 0" x 2' 0" (609.6 x 609.6mm) outer frame section size of 100 x 45mm, Glazed and flymesh shutter frame section size of 52 x 25mm thick	1 sqm	7345
882	MAT-01471	BMT-P.63	Double openable ventilator shutter window Size of 4' 0" x 2' 0" (1219.2mm x 609.6mm) outer frame section size of 100 x 45mm, Glazed and flymesh	1 sqm	7345

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			shutter frame section size of 52 x 25mm, vertical mullion section size of 100 x 60 mm		
883	MAT-01472	BMT-P.64	Double openable fix shutter window size of 4'0" x 3'0" (1219.2mm x 914.4mm) outer frame section size 100 x 45mm , Glazed and flymesh shutter frame section size 52 x 25 mm , Vertical mullion section size of 100 x 60 mm	1 sqm	6865
884	MAT-01473	BMT-P.65	Single fixed Louvers Ventilator window size of 2' 0" x 2' 0" (609.6 x 609.6mm) outer frame box section size of 100 x 45mm, flymesh shutter frame section size 52 x 25 mm	1 sqm	4948
885	MAT-01474	BMT-P.66	Double fixed Louvers ventilator window Size of 4' 0" x 2' 0" (1219.2mm x 609.6mm) outer frame box section size of 100 x 45mm, flymesh shutter frame section size 52 x 25 mm, vertical mullion section size of 100 x 60 mm	1 sqm	4948
886	MAT-01475	BMT-P.67	Double fixed Louvers Ventilator window size of 4'0" x 3'0" (1219.2mm x 914.4mm) outer frame box section size 100 x 45mm , flymesh shutter frame section size 52 x 25 mm Vertical mullion section size of 100 x 60 mm	1 sqm	4948
			<i>Note: The above rates are for normal finish, 10% extra may be allowed for Wood Grain finish</i>		
			Supplying and fixing of Top Hung Ventilators made of pre - painted steel (base steel as per IS 513 of -0.58 mm thick 'D' quality, galvanized as per IS 277 with zinc of 120 GSM) primer coated with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with 5-7 microns thick alkyd backer, section for outer frame of 46 x 52 mm section and for shutter of 46 x 46 mm section for mullion 46 x 70 mm, The Ventilator to be panelled 4 mm pinhead glass with Ethyl propylene Diamine monomer Gasket (EPDM) and the sections cut to length mitre joined with corner bracket mullions fixed using mullion cap and with handle made of high grade aluminium powder coated and nylon receiver, corner brackets made of CRCA with Zinc Phosphate, Mullion caps made of glass filled nylon, frames fixed to the concrete /masonry		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			wall by means of self expanding screws including 10 mm square guard bars with 6" pitch complete for finished item of work.		
887	MAT-01418	BMT-P.10	Ventilators: Top Hung 2'-0" x 2'-0" (609.6x609.6mm) outer frame section size of 46mm x 52 mm shutter frame section size of 46mm x 46 mm	1 Sqm	6798
888	MAT-01419	BMT-P.11	Ventilators: Top Hung 4'-0" x 2'-0" (1219.2x609.6mm) outer frame section size of 46 x 52 m shutter frame section size of 46 x 46 mm Mullion section size of 46 x 70 mm	1 Sqm	6798
889	MAT-01420	BMT-P.12	Ventilators: Top Hung 4'-0"x 3'-0" (1219.2x914.4mm) outer frame section size of 46 x 52m m shutter frame section size of 46 x 46 mm Mullion section size of 46 x 70 mm	1 Sqm	6798
			Supplying and fixing of Fixed Louvered Ventilators made of pre - painted steel (base steel as per IS 513 of -0.58 mm thick 'D' quality, galvanized as per IS 277 with zinc of 120 GSM) primer coated with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with 5-7 microns thick alkyd backer, The section for louvered ventilators should be of of 33 x 56 mm Box section paneled with 4 mm pinhead glass with Ethyl propylene Diamine monomer Gasket (EPDM) and the sections cut to length mitre joined with corner bracket . corner brackets made of CRCA with Zinc Phosphate. The frames to be fixed to the concrete /masonry wall by means of self expanding screws including 10 mm square guard bars with 6" pitch complete for finished item of work.		
890	MAT-01421	BMT-P.13	Ventilators: Fixed louvers 2'-0" x 2'-0" (609.6x609.6mm)(Box section) outer frame section size of 33 x 56 mm	1 Sqm	4650
891	MAT-01422	BMT-P.14	Ventilators: Fixed louvers 4'-0" x 2'-0" (1219.2 x 609.6 mm) (Box section) outer frame section size of 33 x 56 mm Mullion section size of 33 x 56 mm	1 Sqm	4650
892	MAT-01423	BMT-P.15	Ventilators: Fixed louvers 4'-0" x 3'-0" (1219.2 x 914.4 mm) (Box section) outer frame section size of 33 x 56 mm Mullion section size of 33 x 56 mm	1 Sqm	4650

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
865 to 868		BMT-P.68 to P.75	ITEMS DELETED		
893	MAT-01488	BMT-P.77	<p>Providing and fixing 3 Track 3 Shutter Pre painted Steel sliding Window/Door fabricated from roll formed sections made of Galvanized steel colour coated /powder coated (Base Steel as per IS 513 'D' quality galvanized as per IS 277 with Zinc of 120 Gms./ Sq.mtr) with total coated thickness of 0.58mm. Primer Coat with epoxy primer of 5-7 microns thick, finished paint with a polyester paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns or powder coated with pure polyester powder up to 50-60 microns thick. The External Section for Three Track Three Sliding Shutter should be of 44 x 107mm with a provision for bottom track insert profile of 10x9 mm made of aluminium. Section for Window glass shutter should be of 35x49mm, Section for Window Euro groove should be of 25x24mm made of plastic to accommodate standard accessories, and section for window lap strip should be of 21x4mm made of plastic. Section for Mesh Shutter should be of 35x49mm. Section for Door shutter should be of 35x67mm, Section for Door Euro Groove 25x31mm made of plastic to accommodate standard accessories and size of lap strip should be of 39x41mm. The Window/Door to be panelled with 5mm thick plain float glass. The gaskets are to be made of Ethyl Propylene Diamine Manomer [EPDM]. Corner Brackets for internal and external frame to be made of glass filled nylon. Touch lock to be provided for Window Shutter. Sections are to be cut to length, joined and assembled by means of corner brackets. The above frame to be fixed to Brick/Concrete masonry by using Nylon self-expanding caps and driving MS electroplated 80mm screws into the caps through frames. The Grill for safety for windows to be made of 10mm thick square rod bars with 152mm pitch for complete item of work . For Door there will be no Safety Grill including cost and conveyance of all materials, accessories, labour charges for</p>	1 Sqm	7636

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			transportation, erection at site complete for finished item of work.		
Q.SECTION			STRUCTURAL GLAZING		
		I.SUB-SECTION	FIXED GLAZING		
894	MAT-01496	BMT-Q.08	ITEM DELETED		
895	MAT-01497	BMT-Q.09	ITEM DELETED		
II.SUB- SECTION			STRUCTURAL GLAZING		
896	MAT-01489	BMT-Q.01	<p>Providing and fixing Structural Glazing fabricated from Roll formed sections made of Pre-painted Steel / Powder coated (Base steel as per IS 513 of 'D' quality, galvanized as per IS 277 with Zinc of 120 Gm/Sqm) with total coated thickness of 0.72 mm and the glass holding section made of 304 grade stainless steel of 0.58 mm thick galvanised steel section as stiffeners inside the colour coated steel powder coated sections as per the design requirement & calculations to suit wind pressures as given in IS: 875, the primer coat with epoxy primer of 5 – 7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns or powder coated with pure polyester powder up to 50-60 microns thick and the vertical section of 50 mm x 99 mm x 0.72 mm, 33 mm x 56 mm x 0.72 mm for frame horizontal section, stiffener section of 47 mm x 97 mm x 1 mm, cover profiles sections of 20 mm x 58 mm x 0.58 mm, glass holding section of 37 mm x 37 mm & 37 mm x 18 mm including fixing 5mm thick Ocean Blue reflective glass, brackets made of CRCA powder coated/Electroplated to connect vertical to horizontal, vertical to slab, to fix verticals at top & bottom as per site requirement and gasket made of Ethyl Propylene Diamine Monomer, U.V. resistant silicon sealant including fixing in concrete/masonry wall with self-expanding cap & screws inclusive of cost and conveyance of all materials to site, all labour charges, incidental charges, cost of all consumables etc. and fixing charges complete for finished item of work.</p>	1 Sqm	7150

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
897	MAT-01490	BMT-Q.02	Providing and fixing Top Hung shutters in Structural Glazing fabricated from Roll formed sections made of Pre-painted Steel / Powder coated (Base steel as per IS 513 of 'D' quality, galvanized as per IS 277 with Zinc of 120 Gm/Sqm) with total coated thickness of 0.72 mm and the glass holding section made of 304 grade stainless steel of 0.58 mm thick, duly providing stiffeners inside the colour coated steel/powder coated sections as per the design requirement, calculations to suit wind pressures as given in IS 875 and primer coat with epoxy primer of 5-7 microns thick and back coated with Alkyd backer of 5-7 microns or powder coated with pure polyester powder up to 50-60 microns thick and the outer frame of 20 mm x 58 mm x 0.58 mm, shutter sections of 57 mm x 33 mm x 0.72 mm, stiffener sections of 55 mm x 31 mm x 1mm, hinges – 2 Nos for each shutter and aluminium Stays – 2 Nos. for each shutter, aluminium Handle – 1 no. for each shutter including cost and conveyance of all materials to site, all labour charges, incidental charges, cost of all consumables etc. and fixing charges etc for finished item of work	1 Sqm	5645
III SUB- SECTION			CURTAIN WALLING		
898	MAT-01491	BMT-Q.03	Supplying and fixing of curtain Glazing made of pre painted steel (base steel as per IS 513 of 0.58 mm thick D quality, galvanized as per IS 277 with Zinc of 120 GSM) Primer coated with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12- 16 microns thick and back coated with 5-7 microns thick alkyd backer using the section for outer frame of 46 x 52 mm, section for mullion of 46 x 70 mm and section for beading of 18 x 25 mm and the glazing with 5 mm thick plain float glass fitted with Ethyl Propylene diameine Monomer (EPDM) gaskets and the sections cut to length, mitre joined with corner bracket, centre mullions fixed using mullion cap including handle made of high grade Aluminium powder coated and nylon receiver, corner brackets made of CRCA with zinc phosphating, mullion caps made of Glass filled nylon including fixing the	1 Sqm	5849

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			frames in the concrete / masonry wall with self expanding screws, etc., complete for finished item.- Fixed Glazing 2'-0" x 2'-0" (609.6x609.6mm) grid outer frames section size of 46 x 52 mm		
903	MAT-01492	BMT-Q.04	Mullion section size of 46 x 70mm Beading section size of 18 x 25 mm - Fixed Glazing 2'-0" x 3'-0" (609.6x914.4mm) grid outer frame section size of 46 x 52 mm	1 Sqm	5849
904	MAT-01493	BMT-Q.05	Mullion section size of 46 x 70mm Beading section size of 18 x 25 mm Fixed Glazing 3'-0" x 3'-0" (914.4x914.4mm) grid outer frame section size of 46 x 52 mm	1 Sqm	4596
905	MAT-01494	BMT-Q.06	Mullion section size of 46 x 70mm Beading section size of 18 x 25 mm Fixed Glazing 3'-0" x 4'-0" (914.4x1219.2mm) grid outer frame section size of 46 x 52 mm	1 Sqm	4596
906	MAT-01495	BMT-Q.07	ITEM DELETED		
S.SECTION			DISMANTLING clearing away and carefully stacking materials useful for reuse.		
908	MAT-01498	BMT-S.01	Stone masonry in cement mortar	1 Cum	498
909	MAT-01499	BMT-S.02	Terracing work in roofs or floors	10 Sqm	210
910	MAT-01500	BMT-S.03	Flat stones in roof or floors including lifting	10 Sqm	182
911	MAT-01501	BMT-S.04	Pan tiled or Mangalore tiled roof without roof timbers.	10 Sqm	152
912	MAT-01502	BMT-S.05	Flat and pan tiles or Mangalore tiles over flat tiles without roof timbers	10 Sqm	182
913	MAT-01503	BMT-S.06	Wrought and framed timber in roofs or floors	1 Cum	263
914	MAT-01504	BMT-S.07	Old lime mortar plaster	10 Sqm	60
915	MAT-01505	BMT-S.08	Old cement mortar plaster	10 Sqm	75
916	MAT-01506	BMT-S.09	Dry rough stone revetment for aprons and stacking within 40 M lead	1 Cum	90
917	MAT-01507	BMT-S.10	Revetment for aprons and stacking grouted within 40 lead	1 Cum	66
918	MAT-01508	BMT-S.11	Kadapa slabs or Shahabad stone slabs	10	84

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			flooring on sand bed	Sqm	
919	MAT-01509	BMT-S.12	Through scraping of old plastered surface	10 Sqm	55
920	MAT-01510	BMT-S.13	Washing of plastered surface with soap, soda and water (or with soda lime and water)	10 Sqm	18
921	MAT-01511	BMT-S.14	clean removal of lime plaster from walls and raking out joints 20mm deep or from terraced roof and raking out joints 100 mm deep	10 Sqm	55
922	MAT-01512	BMT-S.15	Clean removal of cement plaster from walls and raking out joint 200 mm deep	10 Sqm	68
T.SECTION			READY MIX CONCRETE		DELETED
U.SECTION			EXPANSION JOINT FILLERS		
923	MAT-01513	BMT-U.01	Supply of high performance expansion joint filler board conforming to M.O.S.T - 18 mm THICK	1 Sqm	725
924	MAT-01514	BMT-U.02	Supply of high performance expansion joint filler board conforming to M.O.S.T - 20 mm THICK	1 Sqm	824
925	MAT-01515	BMT-U.03	Supply of high performance expansion joint filler board conforming to M.O.S.T - 25 mm THICK	1 Sqm	1018
926	MAT-01516	BMT-U.04	Supply of expansion joint filler board for buildings, columns, beams and slabs 20 mm THICK	1 Sqm	294
927	MAT-01517	BMT-U.05	Supply of expansion joint filler board for buildings, columns, beams and slabs 25 mm THICK	1 Sqm	360
928	MAT-01518	BMT-U.06	Supply of expansion joint filler board for buildings, columns, beams and slabs 50 mm THICK	1 Sqm	725
929	MAT-01519	BMT-U.07	Supply of back up to cold applied sealant in construction and longitudinal joint - 10 mm OD	1 RM	12
930	MAT-01520	BMT-U.08	Supply of back up to cold applied sealant in construction and longitudinal joint - 12 mm OD	1 RM	15
931	MAT-01521	BMT-U.09	Supply of back up to cold applied sealant in construction and longitudinal joint - 15 mm OD	1 RM	16.5
932	MAT-01522	BMT-U.10	Supply of back up to cold applied sealant in construction and longitudinal joint - 20 mm OD	1 RM	23.5
933	MAT-01523	BMT-U.11	Supply of back up to cold applied sealant in construction and longitudinal	1 RM	30

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			joint - 25 mm OD		
V.SECTION			LABOUR CHARGES		
934	MAT-01524	BMM-V.01	Bailing out water for earth work excavation /concrete for foundation below water level. (For building items only) - Other than sandy soil - 0.0 M to 1.0 M	1 cum	266
935	MAT-01525	BMM-V.02	Bailing out water for earth work excavation /concrete for foundation below water level. (For building items only) - Other than sandy soil - 1.0 M to 2.0 M	1 cum	315
936	MAT-01526	BMM-V.03	Bailing out water for earth work excavation /concrete for foundation below water level. (For building items only) - Other than sandy soil - 2.0 M to 3.0 M	1 cum	367
937	MAT-01527	BMM-V.04	Bailing out water for earth work excavation / for concrete foundation below water level. (For building items only) Sandy soil - 0.0 M to 1.0 M	1 cum	422
938	MAT-01528	BMM-V.05	Bailing out water for earth work excavation /for concrete foundation below water level. (For building items only) Sandy soil - 1.0 M to 2.0 M	1 cum	657
939	MAT-01529	BMM-V.06	Bailing out water for earth work excavation /concrete for foundation below water level. (For building items only) Sandy soil - 2.0 M to 3.0 M	1 cum	793
940	LAB-00418	BMM-V.07	Labour charges for making, fabricating office furniture, racks, work-station furniture, cup-board shutters with plywood/ MDF sheets, decolam/ veneer laminations including fixing cutting, making, assembling, fixing hinges, fixing fixtures, fixing locks, pasting sheets/ laminations fixing in position with necessary screws excluding cost of materials, accessories, fittings	1 Sqm	666
941	LAB-00419	BMM-V.08	Labour charges for making, fabricating kitchen furniture, cup-boards with shutters, box cup-boards, box racks, with plywood/ MDF sheets, decolam/ veneer laminations including fixing cutting, making, assembling, fixing hinges, fixing fixtures, fixing locks, pasting sheets/ laminations fixing in position with necessary screws excluding cost of materials, accessories, fittings	1 Sqm	1016

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
942	LAB-00503	BMM-V.09	Rounding the edges of Kadapa / Shahabad stone slabs of any thickness including polishing the same	1 Rm	116
943	LAB-00504	BMM-V.10	Half Rounding the edges of Marble/ Granite stone slabs of all thicknesses including polishing the same.	1 Rm	350
944	LAB-00505	BMM-V.11	Full Rounding the edges of Marble/ Granite stone slabs of all thicknesses including polishing the same.	1 Rm	453
945	LAB-00506	BMM-V.12	Machine Cutting charges - for Marble/ Granite slabs up to 50 mm thick by mechanical device.	1 RM	19
946	LAB-00507	BMM-V.13	Flat nosing to Kadapa/ Shahabad stone slabs of any thick	1 Rm	55
947	LAB-00420	BMM-V.14	Labour charges for fabricating steel works like Window Grills, Compound Wall Grills, Iron Doors, Windows including cost of welding rods, power charges, excluding cost of fixing in position	1 Kg	30
948	LAB-00421	BMM-V.15	Labour charges for fixing Iron Doors, Iron Windows and Window Grills in position	1 Kg	6
949	LAB-00422	BMM-V.16	Labour charges for fabricating all heavy steel works like Trusses, Stanchions, Heavy Beams and Girders including cost of welding rods, power charges, etc excluding cost of fixing in position	1 Kg	26
950	LAB-00423	BMM-V.17	Labour charges for fixing heavy iron grills, Trusses, Stanchions, Heavy Beams and Girders erecting in position and fixing by using chain pulley blocks, Derek pole arrangements and cranes etc., complete in position	1 Kg	23
951	LAB-00424	BMM-V.18	Labour charges for Fabrication of stainless steel railing works using stainless steel welding rods including buffing, polishing, lacquer finishing, to present seamless finish	1 Kg	144
952	LAB-00425	BMM-V.19	Labour charges for Fabrication of stainless steel sheet cladding works using stainless steel welding rods including buffing, polishing, lacquer finishing, to present seamless finish	1 sqm	1932
953	LAB-00426	BMM-V.20	Labour charges for Glass designing works on any thickness of Glass including fixing at site - Etching works	1 Sqm	1051
954	LAB-00427	BMM-V.21	Labour charges for Glass designing	1	1300

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			works on any thickness of Glass including fixing at site - Reverse Etching work	Sqm	
955	LAB-00428	BMM-V.22	Labour charges for Glass designing works on any thickness of Glass including fixing at site - Acid wash works	1 Sqm	1625
956	LAB-00429	BMM-V.23	Labour charges for fixing Flush door shutters of any thickness to the existing door frame including fixing the fixtures to the door shutter excluding cost of shutter	1 Sqm	421
957	LAB-00430	BMM-V.24	Labour charges for fixing glass panes of any thickness to the existing door / window panes including fixing the beading excluding cost of beading	1 Sqm	315
958	LAB-00431	BMM-V.25	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Fully panelled doors external or internal including frame	1 sqm	1727
959	LAB-00432	BMM-V.26	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Glazed and panelled doors including fixing glass including frame	1 sqm	1632
960	LAB-00433	BMM-V.27	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Framed and planked doors including frame	1 sqm	1432
961	LAB-00434	BMM-V.28	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Ledged, braced and planked doors including frame	1 sqm	1131
962	LAB-00435	BMM-V.29	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Flush type door shutter including frame	1 sqm	864
963	LAB-00436	BMM-V.30	Labour charges for wrought and put up including fixing in position frames of any	1 sqm	1106

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Windows glazed including outer frame and shutter frame		
964	LAB-00437	BMM-V.31	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Windows panelled including outer frame and shutter frame	1 sqm	1667
965	LAB-00438	BMM-V.32	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Windows ledged, braced and planked including outer frame	1 sqm	1137
966	LAB-00439	BMM-V.33	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Windows framed and planked including outerframe and shutter frame	1 sqm	1361
967	LAB-00440	BMM-V.34	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Ventilators glazed, fixed with double frame with wire netting including frame	1 sqm	916
968	LAB-00441	BMM-V.35	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Swing ventilators glazed including outer frame and shutter frame	1 sqm	1158
969	LAB-00442	BMM-V.36	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Weld mesh doors and windows including outer frame and shutter frame	1 sqm	651
970	LAB-00443	BMM-V.37	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary	1 sqm	758

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			fixtures etc. for Teak wood G.I or .AC sheet door & windows including outer frame and shutter frame		
971	LAB-00444	BMM-V.38	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Fully panelled doors external or internal including frame	1 sqm	1701
972	LAB-00445	BMM-V.39	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Glazed and panelled doors including fixing glass including frame	1 sqm	1597
973	LAB-00446	BMM-V.40	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Framed and planked doors including frame	1 sqm	1527
974	LAB-00447	BMM-V.41	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Ledged, braced and planked doors including frame	1 sqm	1324
975	LAB-00448	BMM-V.42	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Flush type door shutter including frame	1 sqm	1036
976	LAB-00449	BMM-V.43	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Windows glazed including outer frame and shutter frame	1 sqm	829
977	LAB-00450	BMM-V.44	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Windows panelled including outer frame and shutter frame	1 sqm	1034

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
978	LAB-00451	BMM-V.45	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Windows ledged, braced and planked including outer frame	1 sqm	1541
979	LAB-00452	BMM-V.46	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Windows framed and planked including outer frame and shutter frame	1 sqm	1053
980	LAB-00453	BMM-V.47	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Ventilators glazed, fixed with double frame with wire netting including frame	1 sqm	1257
981	LAB-00454	BMM-V.48	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Swing ventilators glazed including outer frame and shutter frame	1 sqm	891
982	LAB-00455	BMM-V.49	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Weld mesh doors and windows including outer frame and shutter frame	1 sqm	1113
983	LAB-00456	BMM-V.50	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood G.I or .AC sheet door & windows including outer frame and shutter frame	1 sqm	746
984	LAB-00508	BMM-V.51	Grooves 2-3 mm	1 Rm	64
W.SECTION			MISCELLANEOUS ITEMS		
986	MAT-01575	BMS-W.01	Supplying Aluminium anodised Sections for Doors, partitions, windows, Ventilators (including annodization cost)	1 Kg	337
987	MAT-01576	BMS-W.02	Sun Control film to the glazed windows partition including labour charges.	1 sqm	344

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
987	MAT-01577	BMS-W.03	Aluminium Venetian Blinds horizontal 25.4 mm wide with all accessories.	1 sqm	878
988	MAT-01578	BMS-W.04	Aluminium Venetian Blinds horizontal 20.0 mm wide with all accessories.	1 sqm	836
989	MAT-01579	BMS-W.05	Venetian blinds Vertical blinds 100 mm wide with all accessories.	1 sqm	1419
990	MAT-01580	BMS-W.06	Rubber Beading	1 RM	2
991	MAT-01581	BMS-W.09	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	1 Litre	239
992	MAT-01582	BMS-W.10	Soft Brush	Each	155
993	MAT-01583	BMS-W.11	Wire Brush	Each	34
994	MAT-01584	BMS-W.12	Supplying and fixing aluminium composite cladding with skin material 0.25 mm thick aluminium sheet cover material natural polyethylene aluminium cladding panel fixed with extruded aluminium basis frame (50x25x1.5mm) angle cleats, weather sealants, rivets, GI brackets all as approved, using suitable bolts on structural steel work including necessary accessories complete in all respects including all scaffolding and labour charges etc., complete for finished item of work but excluding cost of structural steel fabrication, if any, ACP Cladding - 3 mm thk	1 Sqm	2408
995	MAT-01585	BMS-W.13	Supplying and fixing aluminium composite cladding with skin material 0.25 mm thick aluminium sheet cover material natural polyethylene aluminium cladding panel fixed with extruded aluminium basis frame (50x25x1.5mm) angle cleats, weather sealants, rivets, GI brackets all as approved, using suitable bolts on structural steel work including necessary accessories complete in all respects including all scaffolding and labour charges etc., complete for finished item of work but excluding cost of structural steel fabrication, if any, ACP Cladding - 4 mm thk	1 Sqm	2626
996	MAT-01586	BMS-W.14	Supplying and fixing aluminium composite cladding with skin material 0.5 mm thick aluminium sheet cover material natural polyethylene aluminium cladding panel fixed with extruded aluminium basis frame (50x25x1.5mm) angle cleats,	1 Sqm	2946

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			weather sealants, rivets, GI brackets all as approved, using suitable bolts on structural steel work including necessary accessories complete in all respects including all scaffolding and labour charges etc., complete for finished item of work but excluding cost of structural steel fabrication, if any, ACP Cladding - 4 mm thk		
997	MAT-01587	BMS-W.15	CEMENT JALI - 25 mm thick	1 sqm	218
998	MAT-01588	BMS-W.16	CEMENT JALI - 40 mm thick	1 sqm	283
999	MAT-01589	BMS-W.17	CEMENT JALI - 50 mm thick	1 sqm	388
1000	MAT-01590	BMS-W.18	Aluminium sheet 24 Gauge	1 Sqm	282
1001	MAT-01591	BMS-W.19	7.5mm thick Aluminium Grill (as approved by the department) 3.58 Kg/Sqm.	1 Sqm	1035
1002	MAT-01592	BMS-W.20	Mastic pad 2'0 " x 4'0" (0.60M x 1.2M) of 1" (25.4 mm) thick	1 Sqm	923
1003	MAT-01593	BMS-W.21	Mastic pad 2'0 " x 4'0" (0.60M x 1.2M) of 1/2" (12.7 mm) thick	1 Sqm	529
1004			Supply of hot pressed compression moulded sign plates for making road signs ass per the approved dimensions of National Highway Authority Of India, complete, for finished item of work.		
1005	MAT-01594	BMS-W.22	Circular sign plate Dia 400mm.	Each.	537
1006	MAT-01595	BMS-W.23	Circular sign plate Dia 600mm.	Each.	1412
1007	MAT-01596	BMS-W.24	Circular sing plate Dia 870mm	Each.	2831
1008	MAT-01597	BMS-W.25	Triangular sign plate 600mm.	Each.	725
1009	MAT-01598	BMS-W.26	Triangular sign plate 900mm.	Each.	1638
1010	MAT-01599	BMS-W.27	Square sign plate 600mm.	Each.	1313
1011	MAT-01600	BMS-W.28	Square sign plate 1000mm.	Each.	4876
1012	MAT-01601	BMS-W.29	ITEM DELETED		
			Design, fabrication & supply of light weight pre engineered buildings for a maximum span of 9 metres with 50 x 50 x 2.8 mm M.S hollow square tubes for columns, trusses & purlins walls with sandwich panels made up of 2 Nos 10mm thick cement bonded particle/ fibre boards with 25mm thick 12 kg/cum density expanded polystyrene in between encased in 1.25 mm thick 24x7x26 mm 'W' tracks in bottom & top and 'H' section for sides with doors,		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			windows & ventilators, roofing with 26 gauge pre painted profiled sheets fixed with self tapping/ drilling screws, painting with enamel paint for steel items, OBD for interiors and ace for exteriors & providing base plates, templates & anchor bolts along with civil foundation designs & drawings for the finished item of work		
1013	MAT-01602	BMS-W.30	Steel Structure: - Structure is made up of 50x50X 2.8 mm/33x66x2.8mm thick hollow M.S. sections for Trusses, columns, and purlins. - Columns	1 RM	399
1014	MAT-01603	BMS-W.33	Sandwich panels: Sandwich panels of 50 mm thick with 25 mm thermocol of 12 kg / cum, fixed in between 2 Nos 10 mm cement bonded wood particle / fibre boards properly fixed together with 30 mmx30mmx30mm wood pieces along width & length wherever necessary	1 Sqm	1443
1015	MAT-01604	BMS-W.34	'U' Tracks & 'H' Section:- Bottom & Top 'U' Tracks are made of 1.25 mm thick 120 GSM G.I. Sheet of size 24x51x26 mm size.	1 RM	155
1016	MAT-01605	BMS-W.35	Fabricated 'H' sections are made up of 2 Nos 1.25 mm thick C.R. Of 40 mm width for flanges and 1 Nos of 2 mm thick C.R. of 50 mm width plate for web. will be used	1 RM	224
1017	MAT-01606	BMS-W.36	Sandwich Panel joinery is made up of couplers or equivalent made from 0.6 mm G.I. roll formed section to hold 2 Nos of 10 mm board on both sides with 25 mm thermocol in between.	1RM	256
1018	MAT-01607	BMS-W.37	Window:- windows are made up of 51 x51 mm step 'U' section made from 1.25 mm thick MS Cold rolled Steel Sheet and Windows Shutters & Grill are made of 48x25mm mm size pre painted section with 4 mm glass complete with necessary hardware. Grills are made from 8 mm square rod at 100 mm spacing.	1 Sqm	4632
1019	MAT-01608	BMS-W.38	Door Frames :-51 X 51 Stepped ' U' section made from 1.25 mm thick C.R. section with a 32 mm rebate for 30 mm flush door and Door Shutters with 30 mm thick block board / flush doors with boiling water proof plywood complete with necessary Hard ware.	1 Sqm	4222
1020	MAT-01609	BMS-W.39	Ventilators:- Ventilators are made of	1	4723

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			51x51 mm step 'U' section made From 1.25 mm thick C.R. sheet with fixed louvers and glass.	Sqm	
1021	MAT-01610	BMS-W.40	Painting:-1) Steel structure is to be painted with 2 coats of Grade I enamel paint.	1 Sqm	125
1022	MAT-01611	BMS-W.41	2) Exterior walls are painted with one coat of primer and 2 coats of exterior emulsion paint .	1 Sqm	112
1023	MAT-01612	BMS-W.42	3) Interiors are painted with 1+2 coat of O.B.D.	1 Sqm	94
1024	MAT-01613	BMS-W.43	Toilets: - Toilets are provided as per plan with a provision for fixing the wash basin, W.C. etc only is made with M.S. steel section secured to the walls with toilet bracket provision excluding cost of WC/ Wash basin etc	Each	1098
1025	MAT-01614	BMS-W.44	Sun shades: - Sun shades will be provided wherever necessary with 300 mm more than the width of window. 25x25 mm angle frame to cover 450 mm in the front and the sides. 10mm cement bonded particle board will be fixed on the frame work and sealed with green paste or equivalent.	Each	3700
1026	MAT-01615	BMS-W.45	Roofing: - Roofing will be provided with 0.5mm thick galvanized / pre painted G.I. profiled sheets fixed to the purlins with 14 size self drilling screws with neoprene washer. Side laps are stitched with self tapping / drilling screws. End laps are to be sealed with 25x3 mm Butyl tape. The sheets are provided with anti capillary groove.	1 Sqm	836
1027	MAT-01617	BMS-W.47	Preparing gabions with jungle wood	Each	3
1028	MAT-01618	BMS-W.48	Planting plants	Each	2
1029	MAT-01619	BMS-W.49	Pruning plants	Each	3
1030	MAT-01620	BMS-W.50	Maintaining avenues including fencing, weeding, mulching, watering etc per plant.	Each	8
1031	MAT-01621	BMS-W.51	- do - When scattered in hot weather with extra conveyance from March to June	Each	9
1032	MAT-01622	BMS-W.52	Hoisting or lowering of slab	1 cum	130
1033	MAT-01623	BMS-W.53	Dressing faces of granite stone (double line dressing)	1 Sqm	213
1034	MAT-01624	BMS-W.54	Dressing faces of other than granite	1	133

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			stone(double line dressing)	Sqm	
1035	MAT-01625	BMS-W.55	Supply of Pre-painted Galvalume Trapezoidal Profile Roofing sheets with 0.50mm thickness, Coating: Alu-Zinc coating AZ150 GSM. Tensile Strength: 550 MPA. Paint coating: Regular Modified Polyester painting. Painting Thickness (Top): 18 to 20 Microns, (Bottom): 5 to 7 Microns. Sheet Width: 1.020, Length: Maximum 12 Meters with Regular Range Colours	1 Sqm	407
1036	MAT-01626	BMS-W.56	Supply of Pre-painted Galvalume Trapezoidal Profile Roofing sheets with 0.47mm thickness, Coating: Alu-Zinc coating AZ150 GSM. Tensile Strength: 550 MPA. Paint coating: Regular Modified Polyester painting. Painting Thickness (Top): 18 to 20 Microns, (Bottom): 5 to 7 Microns. Sheet Width: 1.020, Length: Maximum 12 Meters with Regular Range Colours	1 Sqm	382
1037	MAT-01627	BMS-W.57	Supply of Pre-painted Galvanized Trapezoidal Profile Roofing sheets with 0.50mm thickness, Coating: Zinc coating Z120 GSM. Tensile Strength: 300 MPA. Paint coating: Regular Modified Polyester painting. Painting Thickness (Top): 18 to 20 Microns, (Bottom): 5 to 7 Microns. Sheet Width: 1.020, Length: Maximum 12 Meters with Regular Range Colours	1 Sqm	311
1038	MAT-01628	BMS-W.58	Supply of Pre-painted Galvanized Trapezoidal Profile Roofing sheets with 0.47mm thickness, Coating: Zinc coating Z120 GSM. Tensile Strength: 300 MPA. Paint coating: Regular Modified Polyester painting. Painting Thickness (Top): 18 to 20 Microns, (Bottom): 5 to 7 Microns. Sheet Width: 1.020, Length: Maximum 12 Meters with Regular Range Colours	1 Sqm	311
1039	MAT-01629	BMS-W.59	Supply of Roof Accessories medium size: Ridge, Barge Cap, Corner Trim, L-Flashing, Down Pipes, Gutter etc., with 0.50mm thick, Width: 0.585, Length: Maximum 2½ Meters	1 RM	278
1040	MAT-01630	BMS-W.60	Supply of Roof Accessories medium size: Ridge, Barge Cap, Corner Trim, L-Flashing, Down Pipes, Gutter etc., with 0.47mm thick, Width: 0.585, Length: Maximum 2½ Meters	1 RM	253

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
1041	MAT-01631	BMS-W.61	75 mm long screws -	1 Each	4
1042	MAT-01632	BMS-W.62	G.I scam bolts & nuts	1 Each	6
1043	MAT-01633	BMS-W.63	G.I bolts & nuts	1 Each	6
1044	MAT-01634	BMS-W.64	G.I 'J' bolts 8 mm dia	1 Each	11
1045	MAT-01635	BMS-W.65	G.I Washers	1 Each	2
1046	MAT-01636	BMS-W.66	Limpet washers (for scam & 'J' bolts)	1 Each	2
1047	MAT-01637	BMS-W.67	Bitumen washers	1 Each	2
1048	MAT-01638	BMS-W.68	White Cement	1 Kg	31
1049	MAT-01639	BMS-W.69	MS Z Hold fasts - 300 mm long of 40 x40 x 5 mm ISA	1 Each	39
1050	MAT-01640	BMS-W.70	Rubber/ Nylon door stop bushes	1 Each	11
1051	MAT-01641	BMS-W.71	Nylon rollers for sliding glasses/ alluminium windows	1 Each	17
1052	MAT-01642	BMS-W.72	Powder coating or colour annodization-any section	1 RM	54
1053	MAT-01643	BMS-W.73	Continuous Piano Hinges Powder coated Mild steel as per IS-3818 : 1992of nominal size 25 mm (B) of thickness 0.8 to 1.0 mm	1 RM	39
1054	MAT-01644	BMS-W.74	Box hinges for cup boards	1 Each	48
1055	MAT-01645	BMS-W.75	Magnetic Catchers	1 Each	17
1056	MAT-01646	BMS-W.76	Drilling holes in hard rock surfaces up to 18mm dia	1 RM	220
1057	MAT-01647	BMS-W.77	Drilling holes in hard rock above 18mmdia	1 RM	306
1058	MAT-01648	BMS-W.78	Making holes up to 18mm dia in RCC/any stones up to 50 mm thick	1 Each	37
1059	MAT-01649	BMS-W.79	Making holes above 18mm dia in RCC/any stones above 50 mm thick	1 Each	52
1060	MAT-01650	BMS-W.80	Pressure grouting the drilled holes with neat cement slurry or with approved epoxy bonding agent using pump	1 Each	53
1061	MAT-01651	BMS-W.81	ITEM DELETED		
1062	MAT-01652	BMS-W.82	ITEM DELETED		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			CASURINA BALLIES / STEEL BARRICADING		
1063	LAB-00552	BMS-W.83	Fixing steel barricading with MS Angle Iron Pegs and GI Pipes with nuts & bolts duly excavating pits and its removal after the function is over including transporting of the entire barricading materials from the Divisional stores to the barricading site duly engaging labour to load, transport and unload the materials at barricading site & as per the schedule given by the departmental authorities and loading back into the trucks, unloading at Divisional stores, accounting for the received materials, labour for loading, unloading, fixing, handling etc, complete for finished item of work		
			2-TIER (3 days)	1 RM	42
		BMS-W.84	Providing barricading arrangement with casurina ballies as per the design duly excavating pits and its removal after the function is over including hire charges of the barricading materials as per the schedule given by the departmental authorities complete for finished item of work		
1064	LAB-00553	BMS-W.84.A	2-TIER (2 days)	1 RM	52
1065	LAB-00554	BMS-W.84.B	2-TIER (3 days)	1 RM	53
1066	LAB-00555	BMS-W.84.C	2-TIER (4 days)	1 RM	53
1067	LAB-00556	BMS-W.84.D	3-TIER (2 days)	1 RM	55
1068	LAB-00557	BMS-W.84.E	3-TIER (3 days)	1 RM	55
1069	LAB-00558	BMS-W.84.F	3-TIER (4 days)	1 RM	56
			Testing charges		
		BMS-W.85	Coarse Aggregates		
1070	LAB-00559	BMS-W.85.A	Gradation Test	1 No.	627
1071	LAB-00560	BMS-W.85.B	Aggregate Impact Value Test	1 No.	627
1072	LAB-00561	BMS-W.85.C	Flakiness and Elongation Indices Tests	1 No.	730
1073	LAB-00562	BMS-W.85.D	Water absorption Test	1 No.	575
1074	LAB-00563	BMS-W.85.E	Abrasion Test	1 No.	890
1075	LAB-00564	BMS-W.85.F	Specific Gravity Test	1 No.	627
		BMS-W.86	Fine Aggregates		
1076	LAB-00565	BMS-W.86.A	Sieve Analysis Test	1 No.	627

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
1077	LAB-00566	BMS-W.86.B	Bulking & Moisture content	1 No.	627
1078	LAB-00567	BMS-W.86.C	Specific Gravity Test	1 No.	627
		BMS-W.87	Cement		
1079	LAB-00568	BMS-W.87.A	Fineness of cement Test	Each	627
1080	LAB-00569	BMS-W.87.B	Initial & Final setting time of cement	Each	627
		BMS-W.88	Bricks		
1081	LAB-00570	BMS-W.88.A	Compressive strength of Bricks	Each	365
1082	LAB-00571	BMS-W.88.B	Water absorption Test for Brick	Each	575
		BMS-W.89	Concrete		
1083	LAB-00572	BMS-W.89.A.	Compressive strength of concrete i.e Cube strength test	Each	365
1084	LAB-00573	BMS-W.89.B	Design mix of one grade		16720
1085	LAB-00574	BMS-W.89.C	Design mix of Two grades		27170
1086	LAB-00575	BMS-W.89.D	Design mix of three grades		37620
1087	LAB-00576	BMS-W.89.E	Design mix of four grades		44935
1088	LAB-00577	BMS-W.89.F	Design mix of five grades		53295
			Steel		
1089	LAB-00578	BMS-W.90	Tensile Strength of Each Dia 1 set (3 rods)	Each	730
		BMS-W.91	Soils		
1090	LAB-00579	BMS-W.91.A	G.S.B Mix design	Each	5225
1091	LAB-00580	BMS-W.91.B	W.M.M Mix design	Each	6375
1092	LAB-00581	BMS-W.91.C	B.M Mix design	Each	7840
1093	LAB-00582	BMS-W.91.D	SDBC/BC	Each	8465
1094	LAB-00583	BMS-W.91.E	UD samples	Each	1880
1095	LAB-00584	BMS-W.91.F	Soils MDD and CBR	Each	3865
		Note: Item BMS-W.46 is removed in the section W and is brought as new item in the Section N as BMT-N.82.			
X. SECTION			MACHINERY CHARGES, HIRE CHARGES FOR CENTRING		
1096	MAT-01653	BMC-X.01	Machine charges of rubbing/ polishing floor	1 day	2185
1097	HIR-00206	BMC-X.02	Power Saw Cutter - Hand Operated - Hire charges	1 Hr	132
1098	HIR-00207	BMC-X.03	Power Drill - Hand Operated - Hire Charges	1 Hr	121
1099	MAT-01656	BMC-X.04	Grinding Mortar (Spl Grinding)	1 day	1121
1100	MAT-01657	BMC-X.05	Casuarina Balli Props - 3" to 4" dia - 12'-0" Height	Each	78
1101	MAT-01658	BMC-X.06	Casuarina Balli Props - 4" to 8" dia - 20'-	Each	125

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2022-23 (Rs.)
1		2	3	4	5
			0" Height		
1102	MAT-01659	BMC-X.07	Wall Plate Brackets / beam bottom supports	Each	225
1103	MAT-01660	BMC-X.08	Wedge Plate fixture	Each	12
1104	MAT-01661	BMC-X.09	Runner beams of approximately 4" x 4" size	RM	443
1105	MAT-01662	BMC-X.10	Steel Plates for form works	1 Sqm	1645
1106	MAT-01663	BMC-X.11	Scaffolding Pipes & Centering accessories	1 Kg	128
1107	MAT-01664	BMC-X.12	Scaffold Boards - Bamboo scaffolds - Bamboos - 8'0" long	Each	139
1108	MAT-01665	BMC-X.13	Hire charges for stationary Concrete pump conforming to IS 21573 Part-1: 2006 to deliver the fresh green concrete	1 Hr	360
1109	MAT-01666	BMC-X.14	Concrete delivery pipes conforming to IS 15947 Part I: 2012 to be connected to the pump to delivery point (150 mm Diameter) hire charges per 10 RM	1 Hr	4.8
		BMC-X.15	<p>Providing rigid steel cup lock scaffolding system using steel pipes, adjustable Jack screw props, RHS spans, couplers, bracings and horizontal connecting members, supporting brackets, RHS span beams as per the approved scaffolding designs & plan and other accessories as per the IS Norms and stability calculations including hire charges for cup lock scaffolding pipes, RHS spans, runners, wooden members and cost and conveyance of all other consumable accessories, taxes etc complete for finished item of work</p> <p>Note: - Centering & scaffolding charges for steel scaffolding with pipes, jack props, centering for unsupported heights of every 610 mm height above 3.66 M may be allowed at 16.666% more than the basic material hire charges and relevant labour charges of the applicable floor and item</p> <p>For SHEAR WALLS, RCC WALLS, WATER TANK WALLS</p>		
			Centering charges for Deck Sheets - 9 Ply - 19 mm thick Plywood conforming to IS:303 BWR Grade ; Unsupported Height up to 3.66 M -		1480.00

			MS Cup lock System + Marine Grade Plywood shuttering		
			Centering charges with MS Steel Plate - form work : Unsupported Height up to 3.66 M - MS Cup lock System + MS Plate shuttering		1494.00
			Centering with Aluminum anodized sheets and sections conforming to IS: 11857 – 1986 : Unsupported Height up to 3.66 M - MS Cup lock System + Aluminum Plate shuttering		1790.00
Y SECTION			POST TENSIONING WORKS		
1110		BMC-Y.01	Supply of Freyssinet type wedge action anchorage cone block, couplers, anchor heads and wedges of cast iron make shot blasting finish complete assembly of size 400 x 300 mm as per IS 1343 : 2012	1 No	2090
1111		BMC-Y.02	Supply of GI corrugated sheathing duct of 0.3mm thick of 90 mm size for installing the tendons for bonded post tensioning work as per IS 1343 : 2012	1 RM	55
1112		BMC-Y.03	Supply of HDPE grout hose with flanges for bonded post tensioning work as per IS 1343 : 2012	1 RM	50
1113		BMC-Y.04	Design and execution of post tensioning work, including supplying, laying of HT tendon strands, decoiling, the strands, cutting to the required lengths, laying of HT strands in sheathing (GI corrugated ducts 0.3mm thick) jointing with couplers and inserting the strands, profiling, fixing live end anchorages, making dead end anchorages, including flowering the strands, fixing tendon support bars, supervising the fixing of antibursting reinforcement, stressing the cables using hydraulic jack, end trimming, grouting the cables, with cement slurry, mixed with admixtures	1 MT	209000
			with required tools, plants, and machineries, and consumables etc., including all leads, lifts, coordination, with the post- tensioning agency, preparation of drawings, obtaining approval from the Engineer-in-Charge with supply of approved grade tendons but excluding the cost of concrete, reinforcement steel, shuttering, anchors, sheathing duct etc.,		

Z SECTION			EXPANSION JOINTS		
			<p>Providing and fixing of expansion joint system related with floor location as per drawings and direction of Engineer-In-Charge. The joints system will be of extruded aluminum base members, self aligning / self centering arrangement and support plates etc. as per ASTM B221-02. The system shall be such that it provides floor to floor / floor to wall expansion control system for various vertical location in load application areas that accommodates multi directional seismic movement without stress to its components. System shall consist of metal profiles with a universal aluminum base member designed to accommodate various project conditions and finish floor treatments. The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self – centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to have watertight joint is mandatory requirement all as per the manufactures design and as approved by Engineer - in- Charge (Material shall confirm to ASTM 6063)</p>		
		BMT-Z.01	Expansion Joint - Floor joint 200mm wide	RM	7541
		BMT-Z.02	Expansion joint- Floor joint 250mm wide	RM	9050
			<p>Providing and fixing of expansion joint system related with wall joint (internal/ external) location as per drawings and direction of Engineer-In- Charge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221- 02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimal exposed aluminum surfaces mechanically snap locking the multi</p>		

			cellular to facilitate movement. (Material shall confirm to ASTM 6063)		
		BMT-Z.03	Expansion joint- wall joint 200mm wide	RM	3607
		BMT-Z.04	Expansion joint- wall joint 250mm wide	RM	5056
			<p>Providing and fixing of expansion joint system of approved make and manufactures for various roof locations as per approved drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members with, self aligning and self centering arrangement support plates as per ASTM B221-02. The system shall be such that it provides watertight roof to roof/roof to corner joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminum base member designed to accommodate various project conditions and roof treatments. The cover plate shall be designed of width and thickness required to satisfy movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. Material shall confirm to ASTM 6063.</p>		
		BMT-Z.05	Expansion joint- Roof joint 200mm wide	RM	5597
		BMT-Z.06	Expansion joint- Roof joint 250mm wide	RM	7045
AA SECTION			ENERGY EFFICIENT ITEMS		
SUB-SECTION -IX			External wall insulation with Polyurethane foam (PUF) slab		
		BMT-ZA.01	<p>Providing and fixing polyurethane foam (PUF) slab 40mm thick average with PU slab density 36+/-2 kg/m³ for external wall insulation including necessary polymerized plaster reinforced with glass fibre mesh, epoxy based bonding adhesive etc.,</p>	1sqm	1225

			complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM etc., complete		
SUB-SECTION -X			External wall insulation with Polyurethane foam (PUF) spray		
		BMT-ZA.02	Providing and fixing cast in situ polyurethane foam (PUF) spray of 40mm / 50mm thick with PU foam spray density 35+/-5 kg/m ³ for external wall insulation including necessary adhesive etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM of machinery etc., complete	1sqm	1257
SUB-SECTION -XI			External wall insulation with Extruded Polystyrene (XPS) thermal insulation board		
		BMT-ZA.03	Providing and fixing Extruded Polystyrene (XPS) thermal insulating boards of 25mm thick for external wall insulation including necessary fasteners etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM of machinery etc., complete	1sqm	490
		BMT-ZA.04	Providing and fixing Extruded Polystyrene (XPS) thermal insulating boards of 50mm thick for external wall insulation including necessary fasteners etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM of machinery etc., complete	1sqm	779
		BMT-ZA.05	Providing and fixing Extruded Polystyrene (XPS) thermal insulating boards of 75mm thick for external wall insulation including necessary fasteners etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM of machinery etc., complete	1sqm	1105
		BMT-ZA.06	Providing and fixing Extruded Polystyrene (XPS) thermal insulating boards of 100mm thick for external wall insulation including necessary fasteners etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM of machinery etc., complete	1sqm	1431
SUB-SECTION -XII			Cavity wall insulation with Glass Wool Slab		
		BMT-ZA.07	Providing and fixing polyurethane foam (PUF) spray with PU foam spray of 40mm thick having density 35+/-5 kg/cum density for insulation of cavity wall with including necessary fasteners etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM etc., complete	1sqm	614
		BMT-ZA.08	Providing and fixing polyurethane foam (PUF) spray with PU foam spray of	1sqm	901

			50mm thick having density 35+/-5 kg/cum density for insulation of cavity wall with including necessary fasteners etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM etc., complete		
SUB-SECTION -XIII			Cavity wall with Glass Wool Slab		
		BMT-ZA.09	Providing and fixing glass wool slab of 12mm thick - resin bonded with density 48kg/ cum for insulation of cavity wall, fixed using GI wire 200 SWG, GI chicken mesh 12.50mm x 24 SWG including necessary criss-cross GI wire mesh,raw plugs, adhesive etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM etc., complete	1sqm	508
			Providing and fixing glass wool slab of 25mm thick - resin bonded with density 48kg/ cum for insulation of cavity wall, fixed using GI wire 200 SWG, GI chicken mesh 12.50mm x 24 SWG including necessary criss-cross GI wire mesh,raw plugs, adhesive etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM etc., complete	1sqm	644
			Providing and fixing glass wool slab of 50mm thick - resin bonded with density 48kg/ cum for insulation of cavity wall, fixed using GI wire 200 SWG, GI chicken mesh 12.50mm x 24 SWG including necessary criss-cross GI wire mesh,raw plugs, adhesive etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM etc., complete	1sqm	761
SUB-SECTION -XIII			Cavity wall with Rock Wool Slab		
		BMT-ZA.10	Providing and fixing rock wool slab - resin bonded rock wool slab of 25mm thick having density 36+/-5 kg/cum for insulation of cavity wall with including necessary criss-cross GI wire, mesh,raw plugs, adhesive etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM etc., complete	1sqm	424
			Providing and fixing rock wool slab - resin bonded rock wool slab of 40mm thick having density 36+/-5 kg/cum for insulation of cavity wall with including necessary criss-cross GI wire, mesh,raw plugs, adhesive etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM etc., complete	1sqm	454
			Providing and fixing rock wool slab - resin bonded rock wool slab of 50mm thick having density 36+/-5 kg/cum for insulation of cavity wall with including necessary	1sqm	473

			criss-cross GI wire, mesh, raw plugs, adhesive etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM etc., complete		
			Providing and fixing rock wool slab - resin bonded rock wool slab of 65mm thick having density 36+/-5 kg/cum for insulation of cavity wall with including necessary criss-cross GI wire, mesh, raw plugs, adhesive etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM etc., complete	1sqm	506
			Providing and fixing rock wool slab - resin bonded rock wool slab of 75mm thick having density 36+/-5 kg/cum for insulation of cavity wall with including necessary criss-cross GI wire, mesh, raw plugs, adhesive etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM etc., complete	1sqm	526
			Providing and fixing rock wool slab - resin bonded rock wool slab of 100mm thick having density 36+/-5 kg/cum for insulation of cavity wall with including necessary criss-cross GI wire, mesh, raw plugs, adhesive etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM etc., complete	1sqm	751
SUB-SECTION -XIV			Cavity wall insulation with Extruded Polystyrene (XPS)		
		BMT-ZA.11	Providing and fixing extruded polystyrene (XPS) 50mm thick thermal insulating boards having density 36+/-5 kg/cum for insulation of cavity wall including necessary criss-cross GI wire, mesh, raw plugs, adhesive etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM etc., complete	1sqm	994
			Providing and fixing extruded polystyrene (XPS) 60 mm thick thermal insulating boards having density 36+/-5 kg/cum for insulation of cavity wall including necessary criss-cross GI wire, mesh, raw plugs, adhesive etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM etc., complete	1sqm	1014
			Providing and fixing extruded polystyrene (XPS) 70mm thick thermal insulating boards having density 36+/-5 kg/cum for insulation of cavity wall including necessary criss-cross GI wire, mesh, raw plugs, adhesive etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM etc., complete	1sqm	1323

		BMT-ZA.12	Providing and fixing extruded polystyrene (XPS) 25mm thick thermal insulating boards having density 32 kg/cum for insulation of cavity wall including necessary criss-cross GI wire, mesh, raw plugs, adhesive etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM complete.	1sqm	683
			Providing and fixing extruded polystyrene (XPS) 50mm thick thermal insulating boards having density 32 kg/cum for insulation of cavity wall including necessary criss-cross GI wire, mesh, raw plugs, adhesive etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM complete.	1sqm	994
			Providing and fixing extruded polystyrene (XPS) 75mm thick thermal insulating boards having density 32 kg/cum for insulation of cavity wall including necessary criss-cross GI wire, mesh, raw plugs, adhesive etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM complete.	1sqm	1346
			Providing and fixing extruded polystyrene (XPS) 100mm thick thermal insulating boards having density 32 kg/cum for insulation of cavity wall including necessary criss-cross GI wire, mesh, raw plugs, adhesive etc., complete with all lead and lift, transportation charges, loading unloading charges, all taxes, cost of all materials, labour, HOM complete.	1sqm	1697
SUB-SECTION -XVII			Over deck insulation with polyurethane foam (PUF) slab		
		BMT-ZA.13	40 mm thick with PU slab density 36+/-2 kg/m ³ insulation for over	1sqm	348
		BMT-ZA.14	50 mm thick with PU slab density 36+/-2 kg/m ³ insulation for over	1sqm	576
		BMT-ZA.15	60 mm thick with PU slab density 36+/-2 kg/m ³ insulation for over	1sqm	820
		BMT-ZA.16	70 mm thick with PU slab density 36+/-2 kg/m ³ insulation for over	1sqm	1059
SUB-SECTION -XVIII			Over deck insulation with polyurethane foam (PUF) spray		
		BMT-ZA.17	40mm thick with PU foam spray	1sqm	597
		BMT-ZA.19	60mm thick with PU foam spray	1sqm	1299
		BMT-ZA.20	70mm thick with PU foam spray	1sqm	1624
SUB-SECTION -XIX			Over deck thermal insulation of roof with expanded Polystyrene (EPS)		
		BMT-ZA.21	Expanded polystyrene (EPS) 50mm thick	1sqm	564

		BMT-ZA.22	Expanded polystyrene (EPS) 70mm thick	1sqm	664
		BMT-ZA.23	Expanded polystyrene (EPS) 90mm thick	1sqm	734
		BMT-ZA.24	Expanded polystyrene (EPS) 110mm thick	1sqm	834
		BMT-ZA.25	Expanded polystyrene (EPS) 120mm thick	1sqm	886
SUB-SECTION -XX			Over deck with glass wool slab		
		BMT-ZA.26	Resin bonded glass wool slab 12 mm thick having density 48kgs/ m ³	1sqm	936
		BMT-ZA.27	Resin bonded glass wool slab 25 mm thick having density 48kgs/ m ³	1sqm	1072
		BMT-ZA.28	Resin bonded glass wool slab 50 mm thick having density 48kgs/ m ³	1sqm	1190
SUB-SECTION -XXI			Over deck insulation with rock wool slab		
		BMT-ZA.28	25mm resin bonded rock wool slab having density 48kgs/ m ³	1sqm	605
		BMT-ZA.29	40mm resin bonded rock wool slab having density 48kgs/ m ³	1sqm	634
		BMT-ZA.30	50mm resin bonded rock wool slab having density 48kgs/ m ³	1sqm	651
		BMT-ZA.31	65mm resin bonded rock wool slab having density 48kgs/ m ³	1sqm	679
		BMT-ZA.32	75mm resin bonded rock wool slab having density 48kgs/ m ³	1sqm	702
		BMT-ZA.33	100mm resin bonded rock wool slab having density 48kgs/ m ³	1sqm	756
SECTION AB			PEB STRUCTURES		
		BMT-ZB.01	Pre Engineered Building (PEB): Secondary members which includes Purlins, Girts, Edge Angle, etc. Members formed from Galvanized Coils of 275 GSM and will conform to the physical specifications of ASTM A572/ A572M (Grade 50) or equivalent and shall have a minimum yield strength of 345 MPA	1MT	78000
		BMT-ZB.02	Galvanized Roofing Deck sheets with 1mm thickness, Coating: Zinc coating Z125 / Z275/ Z 500 GSM. Yield Strength: E250. crest to crest width 130 mm length 12 meters : profile width 982mm and profile depth 44mm CR steel as per IS-513 HR steel as per IS 1079 and Galvanized Steel as per IS 277	1KG	128

		BMT-ZB.03	Labor charges for fixing Galvanized Roofing Deck sheets to structural beams and columns for laying RCC slab	1KG	5
		BMT-ZB.04	High Strength friction grip bolts of 8.8 Grade with electroplated & yellow passivation for PEB structure.	1KG	112
		BMT-ZB.05	Cost of Electroplating	1KG	19
		BMT-ZB.06	Cutting Cores in 125 mm thick RCC Slabs 75 mm dia.	Each	225
		BMT-ZB.07	Cutting Cores in 125 mm thick RCC Slabs 100 mm dia	Each	275
		BMT-ZB.08	Cutting Cores in 125 mm thick RCC Slabs 150 mm dia.	Each	350
		BMT-ZB.09	Labor charges for cutting & fixing Thermocol & Cement Bonded Board for Wrapping around PEB columns	1sqm	100

- 1 All the items to be used on the works shall be of first quality & ISI marked wherever possible and as approved, workmanship shall be as approved by the Engineer-In-charge of the work.
- 2 Supply Rates for all the materials are based on market rates excluding GST.
- 3 SSR Rates for Building items are purely for the guidance of the officers in preparation of estimates vide para.113 of APPWD code. Authority who prepares the estimate is however responsible for proper rates as envisaged in para.45 of APPWD code.

LEGEND:

"BMT" -X.XX,

"BMM"-X.XX,

"BMS"-X.XX,

"BMC"-X.XX

xxx- "A".XX - Denotes the Section

XXX-X."01" - Denotes the Serial Number of the Item in the corresponding Section

SI	NAME OF THE STRUCTURAL MEMBER	Material Hire charges	Labou charges	Centring Charges for 2019-20	Unit of Measurement
1	2	3	4	5	6
HIRE CHARGES FOR CENTERING AND SCAFFOLDING					
A	FOOTINGS	Rs. 301	Rs. 672	Rs. 973	per 1 cum
B	BED BLOCKS, BANDS	Rs. 67	Rs. 363	Rs. 430	per 1 cum
C	PEDESTALS	Rs. 343	Rs. 1069	Rs. 1412	per 1 cum
D	PLINTH BEAMS	Rs. 1453	Rs. 1620	Rs. 3073	per 1 cum
HIRE CHARGES FOR CENTERING & SCAFFOLDING - Unsupported Height upto 3.66 M Steel scaffolding pipes, jack Props, wallers, Foot plates, brackets, steel Centering Plates, etc.,					
E	LINTELS	Rs. 1233	Rs. 1720	Rs. 2953	per 1 cum
F	CHAJJAS - SUNSHADES	Rs. 243	Rs. 264	Rs. 507	per 1 sqm
G	COLUMNS	Rs. 371	Rs. 2415	Rs. 2786	per 1 cum
H	BEAMS	Rs. 2179	Rs. 2027	Rs. 4206	per 1 cum
I	SLABS - Up to 150 mm thick	Rs. 247	Rs. 241	Rs. 488	per 1 sqm
J	SLABS - above 150 mm - Up to 300 mmthick	Rs. 254	Rs. 248	Rs. 502	per 1 sqm
K	SLABS - above 300 mm thick	Rs. 265	Rs. 260	Rs. 525	per 1 sqm
L	WAFFLE - (GRID) SLABS (Rib Beams with Slabs)	Rs. 897	Rs. 834	Rs. 1731	per 1 sqm
M	PERGOLA SLABS (Only Rib Beams)	Rs. 629	Rs. 585	Rs. 1214	per 1 sqm
N	ARCH BEAMS - up to 1.5 M Span	Rs. 2477	Rs. 2304	Rs. 4781	per 1 cum
O	ARCH BEAMS - above 1.5 M Span	Rs. 2512	Rs. 2336	Rs. 4848	per 1 cum
P	DOME SLABS	Rs. 4005	Rs. 3723	Rs. 7728	per 1 cum
Q	HELICAL STAIRCASES	Rs. 305	Rs. 284	Rs. 589	per 1 sqm
Q	SHEAR WALLS, RCC WALLS, WATER TANK WALLS	Rs. 472	Rs. 510	Rs. 982	per 1 sqm

HIRE CHARGES FOR CENTERING & SCAFFOLDING - Unsupported Height upto 3.66 M Casurina Ballies, Bamboos, Wooden Reapers, Runners, Wood Posts, Wall Plates etc.,					
E	LINTELS	Rs. 826	Rs. 1332	Rs. 2158	per 1 cum
F	CHAJJAS - SUNSHADES	Rs. 163	Rs. 204	Rs. 367	per 1 sqm
G	COLUMNS	Rs. 249	Rs. 1871	Rs. 2120	per 1 cum
H	BEAMS	Rs. 1458	Rs. 1569	Rs. 3027	per 1 cum
I	SLABS - Up to 150 mm thick	Rs. 165	Rs. 186	Rs. 351	per 1 sqm
J	SLABS - above 150 mm - Up to 300 mmthick	Rs. 170	Rs. 193	Rs. 363	per 1 sqm
K	SLABS - above 300 mm thick	Rs. 178	Rs. 201	Rs. 379	per 1 sqm
L	WAFFLE - (GRID) SLABS (Rib Beams with Slabs)	Rs. 601	Rs. 646	Rs. 1247	per 1 sqm
M	PERGOLA SLABS (Only Rib Beams)	Rs. 421	Rs. 453	Rs. 874	per 1 sqm
N	ARCH BEAMS - up to 1.5 M Span	Rs. 1657	Rs. 1784	Rs. 3441	per 1 cum
O	ARCH BEAMS - above 1.5 M Span	Rs. 1681	Rs. 1808	Rs. 3489	per 1 cum
P	DOME SLABS	Rs. 2681	Rs. 2884	Rs. 5565	per 1 cum
Q	HELICAL STAIRCASES	Rs. 205	Rs. 220	Rs. 425	per 1 sqm

SI	NAME OF THE STRUCTURAL MEMBER	Material Hire charges	Labou r charge s	Centring Charges for 2018-19	Unit of Measurement
1	2	3	4	5	6
HIRE CHARGES FOR ACCESS SCAFFOLDING - upto 3.66 M using Casurina Ballies, Bamboos, Wooden Reapers, Runners, Wood Posts, Wall Plates etc., for BRICK MASONRY/ STONE MASONRY - 1 sqm (Wall Area)					
A	1st - Floor	Rs. 10.78	Rs. 84.62	Rs. 95.40	per 1 sqm
B	2nd - Floor	Rs. 10.78	Rs. 121.18	Rs. 131.96	per 1 sqm
C	3rd - Floor	Rs. 10.78	Rs. 157.72	Rs. 168.50	per 1 sqm
D	4th - Floor	Rs. 10.78	Rs. 194.27	Rs. 205.05	per 1 sqm
E	5th - Floor	Rs. 10.78	Rs. 230.81	Rs. 241.59	per 1 sqm
F	6th - Floor	Rs. 10.78	Rs. 267.35	Rs. 278.13	per 1 sqm
G	7th - Floor	Rs. 10.78	Rs. 303.88	Rs. 314.66	per 1 sqm
H	8th - Floor	Rs. 10.78	Rs. 340.43	Rs. 351.21	per 1 sqm
I	9th - Floor	Rs. 10.78	Rs. 376.98	Rs. 387.76	per 1 sqm
J	10th - Floor	Rs. 10.78	Rs. 413.51	Rs. 424.29	per 1 sqm
K	11th - Floor	Rs. 10.78	Rs. 450.06	Rs. 460.84	per 1 sqm
L	12th - Floor	Rs. 10.78	Rs. 486.61	Rs. 497.39	per 1 sqm

M	13th - Floor	Rs.	10.78	Rs.	523.15	Rs.	533.93	per 1 sqm
N	14th - Floor	Rs.	10.78	Rs.	559.68	Rs.	570.46	per 1 sqm
O	15th - Floor	Rs.	10.78	Rs.	596.23	Rs.	607.01	per 1 sqm

HIRE CHARGES FOR ACCESS SCAFFOLDING - upto 3.66 M using Casurina Ballies, Bamboos, Wooden Reapers, Runners, Wood Posts, Wall Plates etc., for PLASTERING to WALLS - 1 sqm

SI	NAME OF THE STRUCTURAL MEMBER	Material Hire charges	Labour charges	Centring Charges for 2018-19	Unit of Measurement
1	2	3	4	5	6

A	1st - Floor	Rs.	1.08	Rs.	8.47	Rs.	9.55	per 1 sqm
B	2nd - Floor	Rs.	1.08	Rs.	12.12	Rs.	13.20	per 1 sqm
C	3rd - Floor	Rs.	1.08	Rs.	15.77	Rs.	16.85	per 1 sqm
D	4th - Floor	Rs.	1.08	Rs.	19.43	Rs.	20.51	per 1 sqm
E	5th - Floor	Rs.	1.08	Rs.	23.08	Rs.	24.16	per 1 sqm
F	6th - Floor	Rs.	1.08	Rs.	26.73	Rs.	27.81	per 1 sqm
G	7th - Floor	Rs.	1.08	Rs.	30.38	Rs.	31.46	per 1 sqm
H	8th - Floor	Rs.	1.08	Rs.	34.05	Rs.	35.13	per 1 sqm
I	9th - Floor	Rs.	1.08	Rs.	37.70	Rs.	38.78	per 1 sqm
J	10th - Floor	Rs.	1.08	Rs.	41.35	Rs.	42.43	per 1 sqm
K	11th - Floor	Rs.	1.08	Rs.	45.01	Rs.	46.09	per 1 sqm
L	12th - Floor	Rs.	1.08	Rs.	48.66	Rs.	49.74	per 1 sqm
M	13th - Floor	Rs.	1.08	Rs.	52.31	Rs.	53.39	per 1 sqm
N	14th - Floor	Rs.	1.08	Rs.	55.97	Rs.	57.05	per 1 sqm
O	15th - Floor	Rs.	1.08	Rs.	59.62	Rs.	60.70	per 1 sqm

HIRE CHARGES FOR STAGE SCAFFOLDING - upto 3.66 M using Casurina Ballies, Bamboos, Wooden Reapers, Runners, Wood Posts, Wall Plates etc., for CEILING PLASTERING - 1 sqm								
A	1st - Floor	Rs.	2.57	Rs.	16.94	Rs.	19.51	per 1 sqm
B	2nd - Floor	Rs.	2.57	Rs.	24.04	Rs.	26.61	per 1 sqm
C	3rd - Floor	Rs.	2.57	Rs.	31.13	Rs.	33.70	per 1 sqm
D	4th - Floor	Rs.	2.57	Rs.	38.23	Rs.	40.80	per 1 sqm
E	5th - Floor	Rs.	2.57	Rs.	45.33	Rs.	47.90	per 1 sqm
F	6th - Floor	Rs.	2.57	Rs.	52.42	Rs.	54.99	per 1 sqm
G	7th - Floor	Rs.	2.57	Rs.	59.52	Rs.	62.09	per 1 sqm
H	8th - Floor	Rs.	2.57	Rs.	66.62	Rs.	69.19	per 1 sqm
I	9th - Floor	Rs.	2.57	Rs.	73.72	Rs.	76.29	per 1 sqm
J	10th - Floor	Rs.	2.57	Rs.	80.81	Rs.	83.38	per 1 sqm
K	11th - Floor	Rs.	2.57	Rs.	87.91	Rs.	90.48	per 1 sqm
L	12th - Floor	Rs.	2.57	Rs.	95.01	Rs.	97.58	per 1 sqm
M	13th - Floor	Rs.	2.57	Rs.	102.03	Rs.	104.60	per 1 sqm
N	14th - Floor	Rs.	2.57	Rs.	109.19	Rs.	111.76	per 1 sqm
O	15th - Floor	Rs.	2.57	Rs.	116.30	Rs.	118.87	per 1 sqm

CENTERING & SCAFFOLDING CHARGES- FLOOR WISE RATES for Steel scaffolding pipes, jack Props, Steel Centering Plates,etc., for unsupported height 3.66M															
FLOOR		LINTELS	CHAJJAS - SUNSHADES	COLUMNS	BEAMS	SLABS - Up to 150 mm thick	SLABS - above 150 mm - Up to 300 mm thick	SLABS - above 300 mm thick	WAFFLE - (GRID) SLABS (Rib Beams with Slabs)	PERGOLA SLABS (Only Rib Beams)	ARCH BEAMS - up to 1.5 M Span	ARCH BEAMS - above 1.5 M Span	DOE SLABS	HELICAL STAIRCASES	SHEAR WALLS, RCC WALLS, WATER TANK WALLS
Material Hire for any Floor	H	1233	243	371	2179	247	254	265	897	629	2477	2512	4005	305	472
Labour Charges for 1st Floor	L	1720	264	2415	2027	241	248	260	834	585	2304	2336	3723	284	510
Total Hire Charges (H+L)	T	2953	507	2786	4206	488	502	525	1731	1214	4781	4848	7728	589	982
1st - Floor	L	1720	264	2415	2027	241	248	260	834	585	2304	2336	3723	284	510
2nd - Floor	L	1892	290	2657	2230	265	273	286	917	644	2534	2570	4095	312	561
3rd - Floor	L	2064	317	2898	2432	289	298	312	1001	702	2765	2803	4468	341	612
4th - Floor	L	2236	343	3140	2635	313	322	338	1084	761	2995	3037	4840	369	663
5th - Floor	L	2408	370	3381	2838	337	347	364	1168	819	3226	3270	5212	398	714
6th - Floor	L	2580	396	3623	3041	362	372	390	1251	878	3456	3504	5585	426	765
7th - Floor	L	2752	422	3864	3243	386	397	416	1334	936	3686	3738	5957	454	816
8th - Floor	L	2924	449	4106	3446	410	422	442	1418	995	3917	3971	6329	483	867
9th - Floor	L	3096	475	4347	3649	434	446	468	1501	1053	4147	4205	6701	511	918
10th -Floor	L	3268	502	4589	3851	458	471	494	1585	1112	4378	4438	7074	540	969
11th -Floor	L	3440	528	4830	4054	482	496	520	1668	1170	4608	4672	7446	568	1020
12th -Floor	L	3612	554	5072	4257	506	521	546	1751	1229	4838	4906	7818	596	1071
13th -Floor	L	3784	581	5313	4459	530	546	572	1835	1287	5069	5139	8191	625	1122
14th -Floor	L	3956	607	5555	4662	554	570	598	1918	1346	5299	5373	8563	653	1173
15th -Floor	L	4128	634	5796	4865	578	595	624	2002	1404	5530	5606	8935	682	1224
Note: - Centering & scaffolding charges for steel scaffolding with pipes, jack props, steel centring plates for unsupported heights of every 610 mm height above 3.66 M, may be allowed at 16.666% more than the basic material hire charges and relevant labour charges of the applicable floor and item															

CENTERING & SCAFFOLDING CHARGES- FLOOR WISE RATES for Casurina Ballies, Bamboos, Wooden Reapers, Runners, Wood Posts, Wall Plates, Steel Centring Plates etc., for unsupported height 3.66 M														
FLOOR		LINTELS	CHAJJAS - SUNSHADES	COLUMNS	BEAMS	SLABS - Up to 150 mm thick	SLABS - above 150 mm - Up to 300 mm thick	SLABS - above 300 mm thick	WAFFLE - (GRID) SLABS (Rib Beam with Slabs)	PERGOLA SLABS (Only Rib Beams)	ARCH BEAMS - up to 1.5M Span	ARCH BEAMS - above 1.5 M Span	DOME SLABS	HELICAL STAIRCASES
Material Hire for any Floor	H	826	163	249	1458	165	170	178	601	421	1657	1681	2681	501
Labour Charges for 1st Floor	L	1332	204	1871	1569	186	193	201	646	453	1784	1808	2884	220
Total Hire Charges (H+L)	T	2158	367	2120	3027	351	363	379	1247	874	3441	3489	5565	721
1st - Floor	L	1332	204	1871	1569	186	193	201	646	453	1784	1808	2884	220
2nd - Floor	L	1465	224	2058	1726	205	212	221	711	498	1962	1989	3172	242
3rd - Floor	L	1598	245	2245	1883	223	232	241	775	544	2141	2170	3461	264
4th - Floor	L	1732	265	2432	2040	242	251	261	840	589	2319	2350	3749	286
5th - Floor	L	1865	286	2619	2197	260	270	281	904	634	2498	2531	4038	308
6th - Floor	L	1998	306	2807	2354	279	290	302	969	680	2676	2712	4326	330
7th - Floor	L	2131	326	2994	2510	298	309	322	1034	725	2854	2893	4614	352
8th - Floor	L	2264	347	3181	2667	316	328	342	1098	770	3033	3074	4903	374
9th - Floor	L	2398	367	3368	2824	335	347	362	1163	815	3211	3254	5191	396
10th - Floor	L	2531	388	3555	2981	353	367	382	1227	861	3390	3435	5480	418
11th - Floor	L	2664	408	3742	3138	372	386	402	1292	906	3568	3616	5768	440
12th - Floor	L	2797	428	3929	3295	391	405	422	1357	951	3746	3797	6056	462
13th - Floor	L	2930	449	4116	3452	409	425	442	1421	997	3925	3978	6345	484
14th - Floor	L	3064	469	4303	3609	428	444	462	1486	1042	4103	4158	6633	506
15th - Floor	L	3197	490	4490	3766	446	463	482	1550	1087	4282	4339	6922	528

Note:-

- 1) All Materials conforming to ISI or relevant International Standards shall be used in all CIVIL, Water Supply & Sanitary Fittings, Electrical and Electro-Mechanical Works.
- 2) Concerned departments shall approve the materials either from the manufacturer or from its authorized /certified dealer only and also to approve the brands of the products / materials to be adopted in their estimates at their end. In case common approval is required by the committee, concerned authority shall propose with all the details after thorough verification, to the committee for considering the proposal.
- 3) SoR rates for Civil and Water supply & Sanitary items are purely for guidance of the officers in preparation of estimates vide para 113 of APPWD Code. Authority who prepares the estimate is, however responsible for proper rates as envisaged in Para 45 of APPWD Code.
- 4) The rates published in the Buildings SoR 2022-23 are the ceiling rates only and the estimate preparing authorities are responsible for the correctness and reasonableness of the rates and technical specifications adopted in the estimates.

List of Recommended brands/Manufacturers for guidance of field engineers :-

NOTE :

The above list of popular/reputed brands/manufacturers is for guidance. The concerned Engineer shall from time to time ensure their approval status with respect to quality approvals from standard institutions for adopting in the estimate of the works. The Engineer can exercise his/her discretion in selection while using other than above listed brands on satisfaction of their eligibility with respect to ISI or such standard institutional approvals, quality, durability and record/reputation of that product.

Sl. No	SECTION	NAMES OF THE RECOMMENDED BRAND/ MANUFACTURER/ SUPPLIER
A	SECTION	BRICKS & BUILDING BLOCKS
III	SUB-SECTION	Aerocon, Siporex, Nucon, NCL Aerated Blocks
C	SECTION	WALL & FLOOR TILES
		(Landing cost - including material VAT, loading, cost of , unloading & stacking)
I	SUB-SECTION	NON-PORCELAIN CERAMIC FLOOR TILES - Somany, H & R Johnson, Naveen Ceramics, Kajaria, Nitco, Sphinx, Orient Bell, AGL, Hindware, Cera, Varmora, Vitero, Ambani, SUNHEART CERAMIK, Anjani tek, TEGRA (DR-4), RAK ceramics, Vevon (Sree Sudheer Ceramics Pvt Ltd)
II	SUB-SECTION	PORCELAIN VITRIFIED FLOOR TILES - H & R Johnson, H & R Johnson Marbonite, H & R Johnson Endura, H & R Johnson GPS, Naveen Ceramics, Kajaria, Nitco, Orient Bell, Hindware, AGL, RicasilCermaics Exxaro, Cera, Varmora, VITERO, Ambani, SUNHEART CERAMIK, Anjani tek, TEGRA (DR-4),, RAK ceramics, Vevon (Sree Sudheer Ceramics Pvt Ltd)
III	SUB-SECTION	CERAMIC WALL TILES - Somany, H & R Johnson, Kajaria, Sphinx, Orient Bell, AGL, Hindware, RicasilCermaics Exxaro, Cera, Varmora, Vitero, Ambani, SUNHEART CERAMIK, Anjani tek, TEGRA (DR-4), RAK ceramics, Vevon (Sree Sudheer Ceramics Pvt Ltd)
IV	SUB-SECTION	PORCELAIN WALL TILES - Somany, H & R Johnson, Kajaria, Sphinx, Orient Bell, Hindware, Ricasil Cermaics Exxaro, Cera, Varmora, VITERO, Ambani, NCL Vitristik for Ceramic vitrified tiles on floor, NCL Tilostik for fixing Granite stones and NCL Marbstik for fixing Marble stones, SUNHEART CERAMIK, Anjani tek, TEGRA (DR-4), RAK ceramics, Vevon (Sree Sudheer Ceramics Pvt Ltd)
V	SUB-SECTION	GLASS MOSAIC TILES – Bisazza * Palladio * Expansive acqua reactive water barrier grouting system – NCL Tile grout, TEGRA (DR-4), RAK ceramics, Vevon (Sree Sudheer Ceramics Pvt Ltd)
VI	SUB-SECTION	WALL CLADDING TILES - Somany, H & R Johnson, Kajaria, Sphinx, Orient Bell, Hindware, Cera, SUNHEART CERAMIK, TEGRA (DR-4), RAK ceramics, Vevon (Sree Sudheer Ceramics Pvt Ltd)
VII	SUB-SECTION	ROOF TILES-BMI Monier
D	SECTION	PAVING & INTERLOCKING TILES
I	SUB-SECTION	TERRAZZO FLOOR TILES (PLAIN & CHEQUERED) - Super Decorative, Aditya Designer, Maha Bhima, Tricon, Pheonix, Eurocon, Ultra, Sphinx, Cemtech, TEGRA (DR-4), RAK ceramics,
II	SUB-SECTION	CEMENT CONCRETE FLOOR TILES (PLAIN & CHEQUERED) - Super Decorative, Aditya Designer, Maha Bhima, Tricon, Pheonix, Eurocon, Ultra, Sphinx, TEGRA (DR-4), RAK ceramics
III	SUB-SECTION	PRE-CAST CONCRETE BLOCKS FOR PAVING - Super Decorative, Aditya Designer, Maha Bhima, Tricon, Pheonix, Eurocon, Ultra, Sphinx, Cemtech, DEC Industries PVT LTD, Vishaka Master Industries, BMI Monier, TEGRA (DR-4), RAK ceramics
IV	SUB-SECTION	VINYL FLOORING - Marblex, Armstrong,

Sl. No	SECTION	NAMES OF THE RECOMMENDED BRAND/ MANUFACTURER/ SUPPLIER
		TILE ADHESIVE – MYK LATICRETE, Ambani, JK TileMaxX * Wall dado with cement based adhesive – NCL Vitristik for Ceramic vitrified tiles * Cement based adhesive – NCL Tilostik for fixing Granite stones and NCL Marbstik for fixing Marble stones * Cement based Polymer modified jointing mortar – NCL Masonry glue * Cement based Polymer modified plastering mortar – NCL Render, Berger Home sssShield, TEGRA (DR-4),, RAK ceramics
		GLASS FIBRE REINFORCED CONCRETE TILES-Vishaka Master Industries
E	SECTION	TIMBER & ROOFING MATERIAL - DEC Industries PVT LTD
F	SECTION	STEEL MATERIALS - DEC Industries PVT LTD
G	SECTION	FIXTURES FOR DOORS & WINDOWS - Hardwyn, Godrej, Dorset, Dorma, Assa Abloy, M/s DEC Industries Pvt Ltd
H	SECTION	CONSTRUCTION CHEMICALS AND ADMIXTURES
I	SUB-SECTION	REPAIRING & TREATMENT WORKS
		Armstrong / Fosroc ,PMCC, Asian LeakShield, Asianpaints, Myk Arment ,FAB Chemicals, Berger Home Shield ,TEGRA (DR-4),
II	SUB-SECTION	INTEGRAL WATER PROOFING COMPOUNDS
		Armstrong Chemicals Pvt Ltd Bengaluru , Fosroc Chemicals India Pvt Ltd Bengaluru, Asianpaints ,Zoriproof No.1 of Protect More construction, PIDILITE INDUSTRIES LIMITED,Sunanda Speciality Coatings Pvt Ltd, Asian Paints, Sunanda Myk Arment, Berger,FAB Chemicals, TEGRA (DR-4),
III	SUB-SECTION	PLASTICIZERS
		Armstrong Chemicals Pvt Ltd, Bengaluru, Fosroc Chemicals India Pvt Ltd, Bengaluru, Zoriplax of Protect More Construction chemicals, Hyderabad * BONDUF CONSTRUCTION CHEMICALS , Asianpaints, Sunanda Speciality Coatings Pvt Ltd , Asian Paints, DEC Industries PVT LTD Myk Arment, FAB Chemicals, Berger Home Shield ,TEGRA (DR-4),
IV	SUB-SECTION	GROUTS
		Armstrong Chemicals Pvt Ltd, Bengaluru, Fosroc Chemicals India Pvt Ltd, Bengaluru, Asianpaints, Protect More Construction Chemicals (Yield 0.5 Ltrs / 1 Kg Pack) Myk Arment , Berger Home Shield, FAB Chemicals, TEGRA (DR-4),
V	SUB-SECTION	BONDING AGENTS/ ADHESIVES
		Armstrong Chemicals Pvt Ltd Bengaluru, Fosroc Chemical India Pvt Ltd Bengaluru, Protect More Construction Chemicals. Asianpaints M/S DEC Industries manufactured products Myk Arment, Berger, FAB Chemicals, TEGRA (DR-4),
VIII	SUB-SECTION	ANTI-CORROSIVE AGENTS
		Armstrong Chemicals Pvt Ltd Bengaluru , Asianpaints ,sssFosroc Chemicals India Pvt Ltd Bengaluru, Protect More Construction Chemicals.(40 SFT Per Ltr / Coat) * CLEAN TECH CORROSION , Protect More Construction Chemicals Hyderabad, DEC Industries PVT LTD Myk Arment, FAB Chemicals, Berger Home Shield TEGRA (DR-4),
I	SECTION	GLASS MATERIALS - Modifloat, Asahi, Saint-Gobain, Binani, HNG, Gold Plus glass industry
J	SECTION	PAINTS & POLISHES - Asian Paints, Berger, Nerolac, British Paints, JK Cements, Nexon paints, Indocem, ESSAR, Sheenlac, Suryacem, Neon, Wallz, Walrus – SYNTHETIC PLASTER - NCL-Cement Primer (Interior, Exterior), NCL White Cement Putty, NCL-Alltek Spray Plaster, NCL-Skimcoat, Allteck Spray Plaster, NCL Gaiety, NCL-Delight, NCL-Harmony, NCL-Alltek Dune, NCL Alltek Acrylic Coarse, NCL Grey Coarse Putty, NCL Base Coat, NCL Flora, Allteck Deco Orient, MYK LATICRETE, Multichem, Essar, JK ShieldMaxX - White Cement, JK WhiteMaxX, LevelMaxX , JK GypsoMaxX , JK BondMaxX , Wall Putty (White cement based) JK WallMaxX, JK Primaxx(White Cement Based Primer), Smoothtek, Shalimar, Snowcem, Nippon, New World Paints Pvt. Ltd, Fortune Paints Pvt. Ltd, BAKELITE COATINGS AND PAINTS, NCL Topcoat paint, Alltek Trendy, Alltek Goldline, Sunanda
K	SECTION	PARTICLE BOARDS - NCL Bison, Ramco-Hilux, Ramco-Hicem, Everest-board, Visaka-board, Rajshri, Innsula, Birla Aerocon, Aerolite, Novopan, Bhutan-board, Greenply, Greenpanel, Kajariaply, ECOBOARD, Action Tesa
L	SECTION	PLYWOODS, LAMINATES & VENEERS - Kitply, Century Ply, National Ply, Bhutan

Sl. No	SECTION	NAMES OF THE RECOMMENDED BRAND/ MANUFACTURER/ SUPPLIER
		Ply, Samrat, Gurjan ply, Aamoda, Mayur, Amul Boards, Greenply, Greenpanel, Kajariaply, PRAYAG POLYMERS, Archidply/ M/S DEC Industries PVT Ltd
M	SECTION	CEILINGS, WALL PARTITIONS & WALL LININGS -Ramco-Hilux, Everest-board, Visakha-board, Rajshri, Innsula, Gypsum India, Saint-Gobain, Armstrong-Knauf Ceilings, Daikin, NCL-Seccolor, NC Bison, Rock Strength, Aerolite, USG Boral, Birla Aerocon, Diamond, Aerolite, DIAMOND FRAMES, Shaurya,iqubx, Aerolite Industries Pvt Ltd, EUROBOND
N	SECTION	DOORS, SHUTTERS & FRAMES -NCL Buildtek, Anand, Raavila, Kutty, Standard, Shubhdwar, ITP, Rajshri, NCL-Bison, Elixir, Sintex, Elgi, Oasis, Polywood, Sintex, NCL Prelaminated ABS door shutter, NCL FPS Door Frame, , NCL-Veka, Fenesta, , Masonite, Everest, Vishaka, Ambience, Aamoda, Rehau,, Nandi PVC Doors, Aparna-Venster, Ecoste, DEC Infrastructure & Projects(I) Pvt. Ltd, Ecocell, Marcolini, Greenpanel, Kajariaply, HDHMR Doors – NCL, Yashpoly , ULTIMATE SAFETY METAL DOORS, SUDHAKAR PROFILE SYSTEMS, SHREEJI WOODCRAFT PVT LTD, DEC Industries PVT LTD , Galwin Techno Fab industries Pvt.Ltd, Qute Extrusions, Action Tesa, Aparna Venster,iqubx, Plastone, SIMTA Astrix, EUROBOND
	SUB-SECTION	UPVC DOORS AND WINDOWS : Sintex, NCL Veka, Fenesta, LG, EUREKA “Eumax”/ Window systems, Sudhakar profile systems, REHAU, Qute Extrusions, Galvin Techno Fab industries, SIMTA Astrix, Action Tesa, Aparna Venster,iqubx, Plastone, EUROBOND
P	SECTION	WINDOWS - NCL-Buildtek, NCL-Bison, Elixir, Sintex, Elgi, Oasis, Polywood, NCL-Veka, Fenesta, , Ahlada, Rehau, , Win-Eshtas-Viswajeet Industries, Aparna Venster, ecoVUE, EcoCell, Yashpoly, Marcolini, , DEC Industries PVT LTD , Galwin Techno Fab industries Pvt.Ltd, Aparna Venster, SS Secure productions Pvt Ltd, Plastone ,iqubx, SIMTA Astrix, Qute Extrusions, EUROBOND
Q	SECTION	STRUCTURAL GLAZING & CURTAIN WALLING - NCL Buildtek, NCL-Bison, Elixir, Sintex, Elgi, Oasis, Polywood, Sintex, NCL-Wintech, Fenesta, LG, Rehau, Arpitha, , Galvin Techno Fab industries Pvt.Ltd, Qute Extrusions
R	SECTION	MISCELLANEOUS ITEMS
		(a) Sintex, Aquatech, Hindpipe/Hindplast/HIPPO+ for LLDPE Roto Moulding tanks (b) Centurywells & Sudarshana for Galvalume sheets (c) Elixir for PEB structures (d) Aluminium Sections - Hindalco, Nalco, Jindal, Geetha series (e)Gypsum plaster-NKV Home Depot, Gyplite, (f) AC Sheets – Charminar Fortune (g) MPC (Mineral Polymer Composite) Grills/Jali – Esoste, Carpets – Welspun (i) Polycarbonate sheets – DPI Daylighting (h) Design, fabrication & supply of light weight pre engineered buildings - DEC Industries PVT LTD, NCL Buildtek, Kirby (i) Non asbestos sheets; Charminar fortune

The rates published in the Buildings SoR 2022-23 are the ceiling rates only and the estimate preparing authorities are responsible for the correctness and reasonableness of the rates and technical specifications adopted in the estimates.

WATER SUPPLY & SANITARY ITEMS

WATER SUPPLY & SANITARY ITEMS

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
1		2	3	4	5
A			S.W.G. PIPES & FITTINGS		
1	MAT-01667	BMW-A.01	Supplying, laying, jointing and testing 101.6 mm SWG SP-1 pipes of ISI make conforming to ISI 651 & 4127 with airtight cement joints in CM 1.5:1 prop. Including excavation of trenches and socket pits in any soil (except rock requiring blasting) up to 1524 mm(5'0") depth and refilling with watering and tamping.	1 RM	419
2	MAT-01668	BMW-A.02	Supplying, laying, jointing and testing 101.6 mm SWG SP-1 pipes of ISI make conforming to ISI 651 & 4127 with airtight cement joints in CM 1:5:1 prop. including excavation of trenches and socket pits in any soil (except rock requiring blasting) up to 914.4 mm (3'0") depth and refilling with watering and tamping.	1 RM	417
3	MAT-01669	BMW-A.03	Supplying, laying, jointing and testing 152.4 mm SWG SP-1 pipes of ISI make conforming to ISI 651 & 4127 with airtight cement joints in CM 1.5:1 prop. including excavation of trenches and socket pits in any soil (except rock requiring blasting) up to 1524 mm(5'0") depth and refilling with watering and tamping.	1 RM	620
4	MAT-01670	BMW-A.04	Supplying, laying, jointing and testing 152.4 mm SWG SP-1 pipes of ISI make conforming to ISI 651 & 4127 with airtight cement joints in CM 1.5:1 prop. including excavation of trenches and socket pits in any soil (except rock requiring blasting) up to 914.4 mm (3'0")) depth and refilling with watering and tamping.	1 RM	609
5	LAB-00411	BMW-A.05	labour charges only for laying, jointing and testing SWG pipes of any dia with airtight cement joints including excavation of trenches and socket pits in any soil up to 914.4 mm (3'0") depth (except rock requiring blasting) and refilling with watering and tamping.	1 RM	260
6	LAB-00412	BMW-A.06	labour charges only for laying, jointing and testing SWG pipes of any dia with airtight cement joints including excavation of trenches and socket pits in any soil up to 1524mm (5'-0") depth (except rock requiring blasting) and refilling with watering and tamping.	1 RM	323
7	MAT-01671	BMW-A.07	a)Supplying, laying, jointing and testing 152.4 mmCC bed 1:2:4 Prop: using 19.05mm gauge graded granite metalchips and cradling 101.6 mm SWG pipe line all round to have 76.2 mm thick cover over the sockets.	1 RM	227
8	LAB-00413	BMW-A.08	b) - do - labour charges only	1 RM	11
9	MAT-01672	BMW-A.09	a)Supplying , laying, jointing and testing 152.4 mmCC bed 1:2:4 Prop: using 19.05mm gauge graded granite metalchips and cradling 152.4 mm SWG pipe line all round to have 76.2 mm thick cover over the sockets.	1 RM	315
10	LAB-00414	BMW-A.10	b) - do - labour charges only	1 RM	56
11	MAT-01673	BMW-A.11	a) Supplying & Laying 101.6 mm SWG channels with cement mortar joints with suitable brick masonry for fixing the channels in position	1 RM	88

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
12	LAB-00150	BMW-A.12	b) - do - labour charges only	1 RM	42
13	MAT-01674	BMW-A.13	a) Supplying & Laying 152.4 mm SWG channels with cement mortar joints with suitable brick masonry for fixing the channels in position	1 RM	162
14	LAB-00151	BMW-A.14	b) - do - labour charges only	1 RM	58
15	MAT-01675	BMW-A.15	Supply of SWG SP-1 Pipe conforming to ISI 651- 4" dia (101.6mm)	1 RM	167
16	MAT-01676	BMW-A.16	Supply of SWG SP-1 Pipe conforming to ISI 651- 6" dia (152.4mm)	1 RM	291
17	MAT-01677	BMW-A.17	Supply of SWG SP-1 Pipe conforming to ISI 651-8" dia (203.2mm)	1 RM	448
18	MAT-01678	BMW-A.18	Supply of SWG SP-1 Pipe conforming to ISI 651- 10" dia (254 mm)	1 RM	821
19	MAT-01679	BMW-A.19	Supply of SWG SP-1 Pipe conforming to ISI 651- 12" dia (300 mm)	1 RM	1183
20	MAT-01680	BMW-A.20	Supply of SWG SP-1 Pipe conforming to ISI 651- 14" dia (350 mm)	1 RM	1611
21	MAT-01681	BMW-A.21	Supply of SWG SP-1 Pipe conforming to ISI 651- 16" dia (400 mm)	1 RM	1941
22	MAT-01682	BMW-A.22	Supply of SWG SP-1 Pipe conforming to ISI 651- 18" dia (450 mm)	1 RM	2344
23	MAT-01683	BMW-A.23	Supply of SWG SP-2 Pipe conforming to ISI 651- 4" dia (101.6mm)	1 RM	207
24	MAT-01684	BMW-A.24	Supply of SWG SP-2 Pipe conforming to ISI 651- 6" dia (152.4mm)	1 RM	307
25	MAT-01685	BMW-A.25	Supply of SWG SP-2 Pipe conforming to ISI 651-8" dia (203.2mm)	1 RM	553
26	MAT-01686	BMW-A.26	Supply of SWG SP-2 Pipe conforming to ISI 651- 10" dia (254 mm)	1 RM	870
27	MAT-01687	BMW-A.27	Supply of SWG SP-2 Pipe conforming to ISI 651- 12" dia (300 mm)	1 RM	1337
28	MAT-01688	BMW-A.28	Supply of SWG SP-2 Pipe conforming to ISI 651- 14" dia (350 mm)	1 RM	1733
29	MAT-01689	BMW-A.29	Supply of SWG SP-2 Pipe conforming to ISI 651- 16" dia (400 mm)	1 RM	1996.
30	MAT-01690	BMW-A.30	Supply of SWG SP-2 Pipe conforming to ISI 651- 18" dia (450 mm)	1 RM	2547
31	MAT-01691	BMW-A.31	Supply of SWG SP-3 Pipe conforming to ISI 651- 4" dia (101.6mm)	1 RM	264
32	MAT-01692	BMW-A.32	Supply of SWG SP-3 Pipe conforming to ISI 651- 6" dia (152.4mm)	1 RM	383
33	MAT-01693	BMW-A.33	Supply of SWG SP-3 Pipe conforming to ISI 651-8" dia (203.2mm)	1 RM	678
34	MAT-01694	BMW-A.34	Supply of SWG SP-3 Pipe conforming to ISI 651- 10" dia (254 mm)	1 RM	1031

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
35	MAT-01695	BMW-A.35	Supply of SWG SP-3 Pipe conforming to ISI 651- 12" dia (300 mm)	1 RM	1441
36	MAT-01696	BMW-A.36	Supply of SWG SP-3 Pipe conforming to ISI 651- 14" dia (350 mm)	1 RM	1829
37	MAT-01697	BMW-A.37	Supply of SWG SP-2 Pipe conforming to ISI 651- 16" dia (400 mm)	1 RM	2105
38	MAT-01698	BMW-A.38	Supply of SWG SP-3 Pipe conforming to ISI 651- 18" dia (450 mm)	1 RM	2864
39	MAT-01699	BMW-A.39	Supply of SWG Bends conforming to IS standards -100 mm dia	Each	84
40	MAT-01700	BMW-A.40	Supply of SWG Bends conforming to IS standards -150 mm dia	Each	155
41	MAT-01701	BMW-A.41	Supply of SWG Bends conforming to IS standards -200 mm dia	Each	293
42	MAT-01702	BMW-A.42	Supply of SWG Bends conforming to IS standards -250 mm dia	Each	594
43	MAT-01703	BMW-A.43	Supply of SWG Bends conforming to IS standards -300 mm dia	Each	755
44	MAT-01704	BMW-A.44	Supply of SWG Bends conforming to IS standards -350 mm dia	Each	943
45	MAT-01705	BMW-A.45	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 100 x 100	Each	162
46	MAT-01706	BMW-A.46	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 150 x 100	Each	238
47	MAT-01707	BMW-A.47	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 150 x 150	Each	260
48	MAT-01708	BMW-A.48	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 200 x 100	Each	371
49	MAT-01709	BMW-A.49	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 200 x 150	Each	433
50	MAT-01710	BMW-A.50	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 200 x 200	Each	497
51	MAT-01711	BMW-A.51	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 250 x 100	Each	583
52	MAT-01712	BMW-A.52	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 250 x 150	Each	770
53	MAT-01713	BMW-A.53	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 250 x 200	Each	953
54	MAT-01714	BMW-A.54	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 250 x 250	Each	1141
55	MAT-01715	BMW-A.55	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 300 x 100	Each	832
56	MAT-01716	BMW-A.56	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 300 x 150	Each	1066
57	MAT-01717	BMW-A.57	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 300 x 200	Each	1299

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
58	MAT-01718	BMW-A.58	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 300 x 250	Each	1533
59	MAT-01719	BMW-A.59	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 300 x 300	Each	1767
60	MAT-01720	BMW-A.60	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 350 x 100	Each	1038
61	MAT-01721	BMW-A.61	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 350 x 150	Each	1331
62	MAT-01722	BMW-A.62	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 350 x 200	Each	1623
63	MAT-01723	BMW-A.63	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 350 x 250	Each	1913
64	MAT-01724	BMW-A.64	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 350 x 300	Each	2207
65	MAT-01725	BMW-A.65	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 350 x 350	Each	2497
66	MAT-01726	BMW-A.66	Supply of SWG Plugs conforming to IS standards for 100 mm dia	Each	30
67	MAT-01727	BMW-A.67	Supply of SWG Plugs conforming to IS standards for 150 mm dia	Each	58
68	MAT-01728	BMW-A.68	Supply of SWG Plugs conforming to IS standards for 200 mm dia	Each	111
69	MAT-01729	BMW-A.69	Supply of SWG Plugs conforming to IS standards for 250 mm dia	Each	192
70	MAT-01730	BMW-A.70	Supply of SWG Plugs conforming to IS standards for 300 mm dia	Each	305
71	MAT-01731	BMW-A.71	Supply of SWG Plugs conforming to IS standards for 350 mm dia	Each	382
72	MAT-01732	BMW-A.72	Supplying & fixing 150 mm x 100 mm SWG gully traps conforming to ISI 651 & 4127 with C.I Grating & Cost. Brick masonry in CM 1:6 prop. Intermediate chamber and fitted with 304.8 mm x 288.6mm (12"x9") C.I Frame and hinged cover	Each	533
73	MAT-01733	BMW-A.73	Supply of SWG Gully Traps (Round & Square) conforming to IS standards 150 x 100 mm	Each	240
74	LAB-00152	BMW-A.74	Labour charges for fixing and laying the SWG Junctions/ Plugs/ Bends of any dia with airtight cement joints as per standard practice	Each	34
75	MAT-01734	BMW-A.75	Supply of SWG Saddles conforming to IS standards 150 x 100 mm		170
76	MAT-01735	BMW-A.76	Supply of SWG Saddles conforming to IS standards 200 x 100 mm		293
77	MAT-01736	BMW-A.77	Supply of SWG Saddles conforming to IS standards 250 x 100 mm		474
		B	MAN HOLES & INSPECTION CHAMBERS -AS PER - IS 4111 : Part 1 : 1986		

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
78	MAT-05233	BMW-B.01	Constructing 904.0 mm (3'0") dia solid block masonry inspection chamber as per IS - 4111: Part-1:1986 with cement mortar (1:6) prop using fly-ash blocks of 225 mm thick from approved source having a minimum crushing strength of 10 N/sq.mm including plastering with cement mortar 1:3 prop; ½" thick both inside and outside fitted with 20" dia RCC manhole covers and frames including excavating pits up to a depth of 904 mm (3'-0") in all sorts of soils (excluding rock) and laying cement concrete (1:4:8) 150 mm thick using 40 mm HBG Metal and P.C.C. 1:2:4 benching and channel 100 mm thick as per Standard specification and including cost and conveyance of all materials like cement, sand, bricks, water etc., to site, cost of seigniorage charges on all materials and all incidental and operational, labour charges like mixing cement mortar, constructing masonry, lift charges, curing etc., complete for finished item of work as per Standard specification.	Each	6316
79	MAT-05234	BMW-B.02	Constructing 904.0 mm (3'0") dia solid block masonry inspection chamber as per IS - 4111: Part-1:1986 with cement mortar (1:6) prop using fly-ash blocks of 225 mm thick from approved source having a minimum crushing strength of 10 N/sq.mm including plastering with cement mortar 1:3 prop; ½" thick both inside and outside fitted with 20" dia RCC manhole covers and frames including excavating pits up to a depth of 1524 mm (5'-0") in all sorts of soils (excluding rock) and laying cement concrete (1:4:8) 150 mm thick using 40 mm HBG Metal and P.C.C. 1:2:4 benching and channel 100 mm thick as per Standard specification and including cost and conveyance of all materials like cement, sand, bricks, water etc., to site, cost of seigniorage charges on all materials and all incidental and operational, labour charges like mixing cement mortar, constructing masonry, lift charges, curing etc., complete for finished item of work as per Standard specification.	Each	9940
80	MAT-05235	BMW-B.03	Constructing 904.0 mm (3'0") dia brick masonry inspection chamber as per IS - 4111: Part-1:1986 with cement mortar (1:6) prop using 2nd Class Clay Bricks of 225 mm thick from approved source having a minimum crushing strength of 5 N/sq.mm including plastering with cement mortar 1:3 prop; ½" thick both inside and outside fitted with 20" dia RCC manhole covers and frames including excavating pits up to a depth of 904 mm (3'-0") in all sorts of soils (excluding rock) and laying cement concrete (1:4:8) 150 mm thick using 40 mm HBG Metal and P.C.C. 1:2:4 benching and channel 100 mm thick as per Standard specification and including cost and conveyance of all materials like cement, sand, bricks, water etc., to site, cost of seigniorage charges on all materials and all incidental and operational, labour charges like mixing cement mortar, constructing masonry, lift charges, curing etc., complete for finished item of work as per Standard specification.	Each	6118
81	MAT-05236	BMW-B.04	Constructing 904.0 mm (3'0") dia brick masonry inspection chamber as per IS - 4111: Part-1:1986 with cement mortar (1:6) prop using 2nd Class Clay Bricks of 225 mm thick from approved source having a minimum crushing strength of 5 N/sq.mm including plastering with cement mortar 1:3 prop;	Each	9557

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
			½" thick both inside and outside fitted with 20" dia RCC manhole covers and frames including excavating pits up to a depth of 1524 mm (5'-0") in all sorts of soils (excluding rock) and laying cement concrete (1:4:8) 150 mm thick using 40 mm HBG Metal and P.C.C. 1:2:4 benching and channel 100 mm thick as per Standard specification and including cost and conveyance of all materials like cement, sand, bricks, water etc., to site, cost of seigniorage charges on all materials and all incidental and operational, labour charges like mixing cement mortar, constructing masonry, lift charges, curing etc., complete for finished item of work as per Standard specification.		
82	MAT-01737	BMW-B.05	Constructing 914.4 mm x 457.2 mm (3'0"x1'6") brick in CM 1:6 prop. Masonry Inspection chamber up to 914.4 mm (3'0") and fitted with light weight 914.4 mm x 457.2 mm (3'0"x1'6") C.I frame and cover of 40 Kg.	Each	5957
83	MAT-01738	BMW-B.06	Constructing 457.2 mm x 457.2 mm (1'6"x1'6") brick in CM 1:6 prop. Masonry. Inspection chamber up to 914.4 mm (3'0") and fitted with light weight 457.2 mm x 457.2 mm (1'6"x1'6") C.I frame and cover of 20 Kg.	Each	3590
84	MAT-01739	BMW-B.07	a) Making drainage connection in the existing inspection including all repairs	Each	119
85	LAB-00157	BMW-B.08	b) - do - labour charges only	Each	80
		C	C.I. PIPES & FITTINGS -AS PER - IS 1729:1979 (Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)		
			Supplying and fixing of C.I. Single/ Double Socket soil pipes ISI marked conforming to IS:1729-1979 of reputed make with cement caulked joints and fixing as per site requirements including painting black with Japan paint and fixing with necessary wooden blocks fixed in the masonry walls in cement mortar (1½:1) and including fixing of M.S. clamps if necessary with required no. of Bombay nails etc., complete		
86	MAT-01740	BMW-C.01	3" dia (76.2 mm) Single Socket	1 RM	753
87	MAT-01741	BMW-C.02	4" dia (101.6mm) Single Socket	1 RM	975
88	MAT-01742	BMW-C.03	6" dia (152.4mm) Single Socket	1 RM	1539
89	MAT-01743	BMW-C.04	3" dia (76.2 mm) Double Socket	1 RM	817
90	MAT-01744	BMW-C.05	4" dia (101.6mm) Double Socket	1 RM	1080
91	MAT-01745	BMW-C.06	6" dia (152.4mm) Double Socket	1 RM	1766
92	LAB-00158	BMW-C.07	Labour charges only for fixing of C.I. Single/ Double Socket soil pipes of any dia with cement caulked joints and fixing as per site requirements including painting black with Japan paint and fixing with necessary wooden blocks fixed in the masonry walls in cement mortar and including fixing of M.S. clamps if necessary with required nails	1 RM	258
93	MAT-01746	BMW-C.08	Supplying & fixing CI Plain bends 1st quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 3" dia (76.2 mm)	Each	291

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
94	MAT-01747	BMW-C.09	Supplying & fixing CI Plain bends 1st quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 4" dia (101.6 mm)	Each	365
95	MAT-01748	BMW-C.10	Supplying & fixing CI Plain bends 1st quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 6" dia (152.4 mm)	Each	598
96	MAT-01749	BMW-C.11	Supplying & fixing CI Plug (Door) bends 1st quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 3" dia (76.2 mm)	Each	357
97	MAT-01750	BMW-C.12	Supplying & fixing CI Plug (Door) bends 1st quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 4" dia (101.6 mm)	Each	439
98	MAT-01751	BMW-C.13	Supplying & fixing CI Plug (Door) bends 1st quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 6" dia (152.4 mm)	Each	946
99	LAB-00159	BMW-C.14	Labour charges only for fixing CI Plain/ Plug (Door) bends with cement caulked joints and fixing as per site requirements with standard practice	Each	81
100	MAT-01752	BMW-C.15	Supplying and fixing of 76.2 mm (3") CI soil single junction with plug : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	452
101	MAT-01753	BMW-C.16	Supplying and fixing of 101.6 mm (4") CI soil single junction with plug : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	696
102	MAT-01754	BMW-C.17	Supplying and fixing of 152.4 mm (6") CI soil single junction with plug : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	1626
103	MAT-01755	BMW-C.18	Supplying and fixing of 76.2 mm (3") CI soil plain single junction : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	382
104	MAT-01756	BMW-C.19	Supplying and fixing of 101.6 mm (4") CI soil plain single junction : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	515
105	MAT-01757	BMW-C.20	Supplying and fixing of 152.4 mm (6") CI soil plain single junction : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	1216
106	LAB-00160	BMW-C.21	Labour charges only fixing CI soil single junctions with cement caulked joints and fixing as per site requirements with standard practice	Each	115
107	MAT-01758	BMW-C.22	Supplying and Fixing of 76.2 mm (3") CI soil Double junction with plug : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	677
108	MAT-01759	BMW-C.23	Supplying and Fixing of 101.6 mm (4") CI soil Double junction with plug : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	819

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
109	MAT-01760	BMW-C.24	Supplying and Fixing of 152.4 mm (6") CI soil Double junction with plug : conforming to IS:1729-1979 with cementcaulked joints and fixing	Each	1893
110	MAT-01761	BMW-C.25	Supplying and Fixing of 76.2 mm (3") CI soil plain Double junction : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	587
111	MAT-01762	BMW-C.26	Supplying and Fixing of 101.6 mm (4") CI soil plain Double junction : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	766
112	MAT-01763	BMW-C.27	Supplying and Fixing of 152.4 mm (6") CI soil plain Double junction : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	1774
113	LAB-00161	BMW-C.28	Labour charges only fixing CI soil Double junctions with cement caulked joints and fixing as per site requirements with standard practice	Each	113
114	MAT-01764	BMW-C.29	Supplying and Fixing of 75mm C.I. Offsets 1st quality conforming to IS:1729-1979 with cement caulked joints and fixing-for 76.20 mm (3") C.I. Pipe	Each	287
115	MAT-01765	BMW-C.30	Supplying and Fixing of 75mm C.I. Offsets 1st quality conforming to IS:1729-1979 with cement caulked joints and fixing-for 101.6 mm (4") C.I. Pipe	Each	399
116	MAT-01766	BMW-C.31	Supplying and Fixing of 75mm C.I. Offsets 1st quality conforming to IS:1729-1979 with cement caulked joints and fixing-for 152.4 mm (6") C.I. Pipe	Each	860
117	MAT-01767	BMW-C.32	Supplying and Fixing of 115 mm C.I. Offsets 1st quality conforming to IS:1729-1979 with cement caulked joints and fixing- for 76.20 mm (3") C.I. Pipe	Each	341
118	MAT-01768	BMW-C.33	Supplying and Fixing of 115 mm C.I. Offsets 1st quality conforming to IS:1729-1979 with cement caulked joints and fixing- for 101.6 mm (4") C.I. Pipe	Each	450
119	MAT-01769	BMW-C.34	Supplying and Fixing of 115 mm C.I. Offsets 1st quality conforming to IS:1729-1979 with cement caulked joints and fixing- for 152.4 mm (6") C.I. Pipe	Each	881
120	MAT-01770	BMW-C.35	Supplying and Fixing of 150 mm C.I. Offsets 1st quality conforming to IS:1729-1979 with cement caulked joints and fixingfor 76.20 mm (3") C.I. Pipe	Each	393
121	MAT-01771	BMW-C.36	Supplying and Fixing of 150 mm C.I. Offsets 1st quality conforming to IS:1729-1979 with cement caulked joints and fixingfor 101.6 mm (4") C.I. Pipe	Each	506
122	MAT-01772	BMW-C.37	Supplying and Fixing of 150 mm C.I. Offsets 1st quality conforming to IS:1729-1979 with cement caulked joints and fixingfor 152.4 mm (6") C.I. Pipe	Each	1023
123	LAB-00162	BMW-C.38	Labour charges only fixing CI soil Offsets with cement caulked joints and fixing as per site requirements with standard practice	Each	51
124	MAT-01773	BMW-C.39	Supplying & fixing CI floor traps 1st quality ISI marked conforming to IS:1729-1979 with C.P. Grating fixing with white cement as per site requirements with standard practicefor nominal dia 75 mm (3") and grating size 165 mm dia of weight not less than 5.5 Kgs	Each	515

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
125	MAT-01774	BMW-C.40	Supplying & fixing CI floor traps 1st quality ISI marked with C.P. Grating fixing with white cement as per site requirements with standard practice for nominal dia 100 mm (4") and grating size 100 mm dia of weight not less than 6 Kgs	Each	630
126	MAT-01775	BMW-C.41	Supplying & fixing CI floor traps 1st quality ISI marked conforming to IS:1729-1979 with C.P. Grating fixing with white cement as per site requirements with standard practice for nominal dia 75 mm (3") and grating size 100 mm dia of weight not less than 4.0 Kgs	Each	320
127	LAB-00163	BMW-C.42	Labour charges only for fixing CI Nahany/ Floor traps with C.P. Grating fixing with white cement as per site requirements with standard practice	Each	57
128	MAT-01776	BMW-C.43	Boxing of Nahany traps in RCC floors	Each	178
129	MAT-01777	BMW-C.44	Boxing of W.C Trap in R.C.C floors	Each	357
130	MAT-01778	BMW-C.45	Supplying & fixing CI Collars (double socket) 1st quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 76.20 mm (3") C.I. Pipe	Each	169
131	MAT-01779	BMW-C.46	Supplying & fixing CI Collars (double socket) 1st quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 101.6 mm (4") C.I. Pipe	Each	213
132	MAT-01780	BMW-C.47	Supplying & fixing CI Collars (double socket) 1st quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 152.4 mm (6") C.I. Pipe	Each	612
		D	VITREOUS CHINAWARE - SANITARY APPLIANCES as per IS:2556 – 1974 (Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)		
133	MAT-01781	BMW-D.01	Supplying & Fixing Indian pattern white glazed W.C 1st quality ISI marked conforming to IS:2556-Part-3-1981 with "P" or "S" trap: 580 mm Long	Each	1036
134	MAT-01782	BMW-D.02	Supplying & Fixing Indian pattern white glazed W.C 1st quality ISI marked conforming to IS:2556-Part-3-1981 with "P" or "S" trap: 630 mm Long	Each	1036
135	LAB-00164	BMW-D.03	Labour charges only for fixing Indian pattern W.C with "P" or "S" trap	Each	342
136	MAT-01783	BMW-D.04	Supplying & Fixing Orissa Pan white glazed W.C 1st quality ISI marked conforming to IS:2556-Part-3-1981 with "P" or "S" trap: 580 mm x 440 mm	Each	1551
137	MAT-01784	BMW-D.05	Supplying & Fixing Orissa Pan white glazed W.C 1st quality ISI marked conforming to IS:2556-Part-3-1981 with "P" or "S" trap: 630 mm x 450 mm	Each	1626
138	LAB-00165	BMW-D.06	Labour charges only Fixing Orissa pan W.C with "P" or "S" trap	Each	428
139	MAT-01785	BMW-D.07	Supplying & Fixing porcelain foot rest for squatting I.W.C. (Rectangular pair) of sizes 250 mm x 125 mm x 15 mm thick each foot rest 1st quality ISI marked conforming to IS:2556-Part-10:1974	Pair	238

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
140	LAB-00166	BMW-D.08	Labour charges only for fixing porcelain foot rest for squatting I.W.C. (Rectangular pair)	Pair	78
141	MAT-01786	BMW-D.09	Providing Brick masonry seat for Orissa pan/ Indian W.C. using 2nd class bricks as per standard practice	Each	303
142	MAT-01787	BMW-D.10	Providing Cement Concrete Squatting plate for Orissa pan/ Indian W.C. in P.C.C. 1:2:4 as per standard practice	Each	90
143	MAT-01788	BMW-D.11	Supplying & Fixing low down porcelain flushing tank 10 Lit Capacity with internal components	Each	2468
144	LAB-00167	BMW-D.12	Labour charges only for fixing low down porcelain flushing tank with internal components	Each	599
145	MAT-01789	BMW-D.13	Supplying and Fixing European Water Closet of 1st quality conforming to IS:2556-Part-2-1973 of white glazed with 'P' trap	Each	1979
146	MAT-01790	BMW-D.14	Supplying and Fixing European Water Closet of 1st quality conforming to IS:2556-Part-2-1973 of white glazed with 'S' trap	Each	1889
147	LAB-00168	BMW-D.15	Labour charges only for fixing European Water Closet with 'P' or 'S' trap as per standard practice	Each	300
148	MAT-01791	BMW-D.16	Supplying and Fixing best Indian make plastic seat and lid for European water closets with rubber or plastic Buffers as per IS 2548-1996	Each	850
149	LAB-00169	BMW-D.17	Labour charges only for fixing plastic seat and lid for European water closet	Each	87
150	MAT-01792	BMW-D.18	Supply, Installation and commissioning approved make floor mounted Close coupled EWC suit CASCADE model 'P' or 'S' trap with dual flush porcelain cistern fixed on EWC with all internal parts of dual flush cistern, ultra solid seat cover of approved make with rubber buffer and cap 15 mm angle stop cock 450 mm long PVC inter connection pipe wall flanges all of approved make etc. complete for finished item of work in all respects: White Colour	Each	9158
151	MAT-01793	BMW-D.19	Supply, Installation and commissioning approved make floor mounted Close coupled EWC suit CASCADE model 'P' or 'S' trap with dual flush porcelain cistern fixed on EWC with all internal parts of dual flush cistern, ultra solid seat cover of approved make with rubber buffer and cap 15 mm angle stop cock 450 mm long PVC inter connection pipe wall flanges all of approved make etc. complete for finished item of work in all respects: Coloured - Grade - I/ Grade - II	Each	13354
152	MAT-01794	BMW-D.20	Supply, Installation and commissioning approved make floor mounted close coupled EWC suit CASCADE model 'P' or 'S' trap with dual flush porcelain cistern fixed on EWC with all internal parts of dual flush cistern, ultra solid seat cover of approved make with rubber buffer and cap 15 mm angle stop cock 450 mm long PVC inter connection pipe wall flanges all of approved make etc. complete for finished item of work in all respects: Special Colour - Grade - III	Each	16994
153	MAT-01795	BMW-D.21	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-	Each	2611

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
			1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 660 x 460 mm - Single C.P. Pillar cock		
154	MAT-01796	BMW-D.22	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 630 x 450 mm - Single C.P. Pillar cock	Each	2318
155	MAT-01797	BMW-D.23	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 630 x 450 mm - Double C.P. Pillar cock	Each	2828
156	MAT-01798	BMW-D.24	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 550 x 400 mm - Single C.P. Pillar cock	Each	1736
157	MAT-01799	BMW-D.25	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 550 x 400 mm - Double C.P. Pillar cock	Each	2100
158	MAT-01800	BMW-D.26	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 450 x 300 mm - Single C.P. Pillar cock	Each	1519
159	MAT-01801	BMW-D.27	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-	Each	1956

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
			1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 450 x 300 mm - Double C.P. Pillar cock		
160	LAB-00170	BMW-D.28	Labour charges only for fixing Indian make Flat Back Wash Hand Basin with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting Pillar Taps complete with standard CI brackets including wooden block	Each	362
161	MAT-01802	BMW-D.29	Supplying and Fixing Pedestal for Wash Hand Basin (H.S.W / Parry / Earthenware)	Each	1202
162	LAB-00171	BMW-D.30	Labour charges only for fixing pedestal for wash hand basin	Each	154
163	MAT-01803	BMW-D.31	Supplying & Fixing 31.75 mm C.P bottle trap (Heavy type) Parryware or equivalent	Each	433
164	LAB-00172	BMW-D.32	Labour charges only for fixing bottle trap to the wash hand basin	Each	51
165	MAT-01804	BMW-D.33	Supplying & Fixing white glazed flat back Bowl urinals of size 440 mm x 265 mm x 315 mm with internal flushing rim fixed with screws complete Indian make conforming to IS:2556-1995	Each	898
166	MAT-01805	BMW-D.34	Supplying & Fixing white glazed flat back half stall urinals 1st quality conforming to IS:2556-1995 with standard C.P. Spreader of overall size 95 x 95 x 57 mm conforming to IS:2556-Part6, Sec-6-1974 fixed with screws complete Indian make : 410 x 265 x 305 mm	Each	2644
167	MAT-01806	BMW-D.35	Supplying & Fixing white glazed flat back half stall urinals 1st quality conforming to IS:2556-1995 with standard C.P. Spreader of overall size 95 x 95 x 57 mm conforming to IS:2556-Part6, Sec-6-1974 fixed with screws complete Indian make : 590 x 375 x 390 mm	Each	2935
168	LAB-00173	BMW-D.36	Labour charges only Fixing flat back Bowl/ Half stall urinals with fixing C.P. Spreader and screws complete	Each	144
169	MAT-01807	BMW-D.37	Supplying & Fixing Indian make white glazed vitreous china porcelain sink conforming to IS:2556-Part-5-1994 on cantilever brackets with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 : 600 x 400 x 250	Each	4789
170	MAT-01808	BMW-D.38	Supplying & Fixing Indian make white glazed vitreous china porcelain sink conforming to IS:2556-Part-5-1994 on cantilever brackets with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 : 750 x 450 x 250	Each	5371
171	LAB-00174	BMW-D.39	Labour charges only for fixing Vitreous china porcelain sinks with waste fittings, rubber plug, chain, cantilever brackets etc.	Each	362
172	MAT-01809	BMW-D.40	a) S & F 609.6 x 457.2 x 254 mm RCC terrazzo finished sink (or constructed at site with 50.8mm thick) brass plug and chain including CI cantilever brackets	Each	781
173	LAB-00175	BMW-D.41	b) - do - labour charges only	Each	256

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic for 2022-23 (Rs.)	Rate SoR
		E	TAPS & FAUCETS(Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)			
174	MAT-01810	BMW-E.01	a) S & F 12.7 mm NP stop cock Indian make heavy duty	Each	450	
175	LAB-00176	BMW-E.02	b) - do - labour charges only	Each	33	
176	MAT-01811	BMW-E.03	a) S & F concealed stop cock 12.7 mm (1/2") Indian Make heavy duty	Each	515	
177	LAB-00177	BMW-E.04	b) - do - labour charges only	Each	49	
178	MAT-01812	BMW-E.05	a) S & F angle stop cock 12.7 mm dia first quality Indian Make heavy duty	Each	453	
179	LAB-00178	BMW-E.06	b) - do - labour charges only	Each	49	
180	MAT-01813	BMW-E.07	a) S&F 12.7 mm N.P bib tap Indian make heavy duty	Each	387	
181	LAB-00179	BMW-E.08	b) - do - labour charges only	Each	33	
182	MAT-01814	BMW-E.09	a) S&F 12.7mm N.P bib tap Indian make heavy duty	Each	248	
183	LAB-00180	BMW-E.10	b) - do - labour charges only	Each	33	
184	MAT-01815	BMW-E.11	a) S & F 31.75 mm brass plumber Union best Indian first quality	Each	68	
185	LAB-00181	BMW-E.12	b) - do - labour charges only	Each	16	
186	MAT-01816	BMW-E.13	a) S & F 12.7 mm brass stop cock Indian make heavy duty	Each	222	
187	LAB-00182	BMW-E.14	b) - do - labour charges only	Each	33	
188	MAT-01817	BMW-E.15	a) S & F 12.7 mm brass stop cock Indian make heavy duty	Each	196	
189	LAB-00183	BMW-E.16	b) - do - labour charges only	Each	33	
190	MAT-01818	BMW-E.17	a) S & F 12.7 mm brass bib cock Indian make heavy duty	Each	222	
191	LAB-00184	BMW-E.18	b) - do - labour charges only	Each	33	
192	MAT-01819	BMW-E.19	a) S & F 12.7 mm brass bib cock Indian make heavy duty	Each	196	
193	LAB-00185	BMW-E.20	b) - do - labour charges only	Each	33	
194	MAT-01820	BMW-E.21	S & F CP Long body bib cock fancy type deluxe heavy duty 12.7 mm dia Indian make	Each	607	
195	MAT-01821	BMW-E.22	S & F CP Short body bib cock fancy type deluxe heavy duty 12.7 mm dia Indian make	Each	582	

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
196	MAT-01822	BMW-E.23	S & F 12.7mm heavy duty dia high neck pillar cock 1st quality Indian make	Each	1102
197	MAT-01823	BMW-E.24	a)S & F 12.7 mm heavy duty NP Swan Neck Pillar cock	Each	1102
198	LAB-00186	BMW-E.25	b) - do - labour charges only	Each	46.01
199	MAT-01824	BMW-E.26	a)S & F 12.7 mm heavy duty NP Sink cock	Each	1100
200	LAB-00187	BMW-E.27	b) - do - labour charges only	Each	40
201	MAT-01825	BMW-E.28	S&F 12.7 mm dia NP pillar cock heavy duty 1st quality Indian make	Each	579
202	MAT-01826	BMW-E.29	S&F 12.7 mm dia NP push cock 1st quality	Each	259
203	MAT-01827	BMW-E.30	S&F 12.7 mm dia NP lift cock 1st quality	Each	227
204	MAT-01828	BMW-E.31	a)S & F 38.1 mm C.Pwaste coupling Half or Full Thread 1st Quality Indian make Parryware or equivalent	Each	227
205	LAB-00188	BMW-E.32	b) - do - labour charges only	Each	33
206	MAT-01829	BMW-E.33	a) S & F 31.75 mm PVC bottle trap	Each	139
207	LAB-00189	BMW-E.34	b) - do - labour charges only	Each	33
208	MAT-01830	BMW-E.35	a)S& F 38.1 mm brass plumber union	Each	68
209	LAB-00190	BMW-E.36	b) - do - labour charges only	Each	16
210	MAT-01831	BMW-E.37	a)S & F 19.05 mm heavy duty NP stop cock Indian make with ISI mark	Each	579
211	LAB-00191	BMW-E.38	b) - do - labour charges only	Each	33
		F	G.I. PIPES & FITTINGS(Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)		
212	MAT-01832	BMW-F.01	S& F Glunion 12.7 mm 1st Quality	Each	42
213	MAT-01833	BMW-F.02	S& F Glunion 19.05 mm 1st Quality	Each	51
214	MAT-01834	BMW-F.03	S& F Glunion 25.4 mm 1st Quality	Each	77
215	MAT-01835	BMW-F.04	S& F Glunion 31.75 mm 1st Quality	Each	95
216	MAT-01836	BMW-F.05	S& F Glunion 38.1 mm 1st Quality	Each	114
217	MAT-01837	BMW-F.06	S& F Glunion 50.8 mm 1st Quality	Each	142
218	MAT-01838	BMW-F.07	S& F GI connector 25.4 mm dia	Each	85
219	MAT-01839	BMW-F.08	S& F 12.7 mm GI 'T' A class 1st quality	Each	52
220	MAT-01840	BMW-F.09	S& F31.75mm dia GI bend 1st quality	Each	77
221	MAT-01841	BMW-F.10	S & F 31.75 mm dia GI 'T' 1st Quality	Each	76
222	MAT-01842	BMW-F.11	a) S & F 25.4 mm copper ball cock ith PVC ball Indian make ISI mark	Each	448
223	LAB-00192	BMW-F.12	b) - do - labour charges only	Each	50
224	MAT-01843	BMW-F.13	a) S & F 19.05 mm copper ball cock ith PVCball Indian make ISI mark	Each	367
225	LAB-00193	BMW-F.14	b) - do - labour charges only	Each	45

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
226	MAT-01844	BMW-F.15	a)S & F 12.7 mm copper ball cock ith PVC ball Indian make ISI mark	Each	241
227	LAB-00194	BMW-F.16	b) - do - labour charges only	Each	50
228	MAT-01845	BMW-F.17	a)S & F Gunmetal Gate (GM peet) valve as per IS - 778 Class - I, Indian make heavy type - 25 mm NB Size	Each	1165
229	LAB-00195	BMW-F.18	b) - do - labour charges only	Each	50
230	MAT-01846	BMW-F.19	a)S & F Gunmetal Gate (GM peet) valve as per IS - 778 Class - I, Indian make heavy type - 20 mm NB Size	Each	812
231	LAB-00196	BMW-F.20	b) - do - labour charges only	Each	50
232	MAT-01847	BMW-F.21	a)S & F Gunmetal Gate (GM peet) valve as per IS - 778 Class - I, Indian make heavy type - 15 mm NB Size	Each	604
233	LAB-00197	BMW-F.22	b) - do - labour charges only	Each	50
234	MAT-01848	BMW-F.23	a)S & F Gunmetal Gate (GM peet) valve as per IS - 778 Class - I, Indian make heavy type - 32 mm NB Size	Each	1768
235	LAB-00198	BMW-F.24	b) - do - labour charges only	Each	43
236	MAT-01849	BMW-F.25	a)S & F Gunmetal Gate (GM peet) valve as per IS - 778 Class - I, Indian make heavy type - 40 mm NB Size	Each	2389
237	LAB-00199	BMW-F.26	b) - do - labour charges only	Each	75
238	MAT-01850	BMW-F.27	a)S & F Gunmetal Gate (GM peet) valve as per IS - 778 Class - I, Indian make heavy type - 50 mm NB Size	Each	3498
239	LAB-00200	BMW-F.28	b) - do - labour charges only	Each	101
240	MAT-01851	BMW-F.29	a)S & F Gunmetal Gate (GM peet) valve as per IS - 778 Class - I, Indian make heavy type - 65 mm NB Size	Each	5398
241	LAB-00201	BMW-F.30	b) - do - labour charges only	Each	5459
242	MAT-01852	BMW-F.31	a)S & F Gunmetal Gate (GM peet) valve as per IS - 778 Class - I, Indian make heavy type - 80 mm NB Size	Each	7995
243	LAB-00202	BMW-F.32	b) - do - labour charges only	Each	149
244	MAT-01853	BMW-F.33	a) Supplying & fixing Gunmetal (GM) Horizontal Check (Non return) Valve as per IS-778 I-class heavy duty - 15 mm NB Size	Each	450
245	LAB-00203	BMW-F.34	b) - do - labour charges only	Each	62
246	MAT-01854	BMW-F.35	a) Supplying & fixing Gunmetal (GM) Horizontal Check (Non return) Valve as per IS-778 I-class heavy duty - 25 mm NB Size	Each	1019
247	LAB-00204	BMW-F.36	b) - do - labour charges only	Each	75
248	MAT-01855	BMW-F.37	a) Supplying & fixing Gunmetal (GM) Horizontal Check (Non return) Valve as per IS-778 I-class heavy duty - 40 mm NB Size	Each	2069
249	LAB-00205	BMW-F.38	b) - do - labour charges only	Each	126
250	MAT-01856	BMW-F.39	a) Supplying & fixing Gunmetal (GM) Horizontal Check (Non return) Valve as per IS-778 I-class heavy duty - 50 mm NB Size	Each	2825
251	LAB-00206	BMW-F.40	b) - do - labour charges only	Each	126
252	MAT-01857	BMW-F.41	a) Supplying & fixing Gunmetal (GM) Horizontal Check (Non	Each	653

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic for 2022-23 (Rs.)	Rate SoR
			return) Valve as per IS-778 I-class heavy duty - 20 mm NB Size			
253	LAB-00207	BMW-F.42	b) - do - labour charges only	Each	61	
254	MAT-01858	BMW-F.43	a) Supplying & fixing Gunmetal (GM) Vertical Check (Non return) Valve as per IS-778 I-class heavy duty - 15 mm NB Size	Each	424	
255	LAB-00208	BMW-F.44	b) - do - labour charges only	Each	61	
256	MAT-01859	BMW-F.45	a) Supplying & fixing Gunmetal (GM) Vertical Check (Non return) Valve as per IS-778 I-class heavy duty - 20 mm NB Size	Each	550	
257	LAB-00209	BMW-F.46	b) - do - labour charges only	Each	61	
258	MAT-01860	BMW-F.47	a) Supplying & fixing Gunmetal (GM) Vertical Check (Non return) Valve as per IS-778 I-class heavy duty - 25 mm NB Size	Each	826	
259	LAB-00210	BMW-F.48	b) - do - labour charges only	Each	61	
260	MAT-01861	BMW-F.49	a) Supplying & fixing Gunmetal (GM) Vertical Check (Non return) Valve as per IS-778 I-class heavy duty - 32 mm NB Size	Each	1135	
261	LAB-00211	BMW-F.50	b) - do - labour charges only	Each	61	
262	MAT-01862	BMW-F.51	a) Supplying & fixing Gunmetal (GM) Vertical Check (Non return) Valve as per IS-778 I-class heavy duty - 40 mm NB Size	Each	1370	
263	LAB-00212	BMW-F.52	b) - do - labour charges only	Each	96	
264	MAT-01863	BMW-F.53	a) Supplying & fixing Gunmetal (GM) Vertical Check (Non return) Valve as per IS-778 I-class heavy duty - 50 mm NB Size	Each	2168	
265	LAB-00213	BMW-F.54	b) - do - labour charges only	Each	61	
266	MAT-01864	BMW-F.55	a)S & F Gunmetal (GM) Ball valve with SS Ball and SS Spindle as per IS - Class - I, Indian make heavy type - 15 mm NB Size	Each	456	
267	LAB-00214	BMW-F.56	b) - do - labour charges only	Each	61	
268	MAT-01865	BMW-F.57	a)S & F Gunmetal (GM) Ball valve with SS Ball and SS Spindle as per IS - Class - I, Indian make heavy type - 20 mm NB Size	Each	592	
269	LAB-00215	BMW-F.58	b) - do - labour charges only	Each	61	
270	MAT-01866	BMW-F.59	a)S & F Gunmetal (GM) Ball valve with SS Ball and SS Spindle as per IS - Class - I, Indian make heavy type - 25 mm NB Size	Each	864	
271	LAB-00216	BMW-F.60	b) - do - labour charges only	Each	61	
272	MAT-01867	BMW-F.61	a)S & F Gunmetal (GM) Ball valve with SS Ball and SS Spindle as per IS - Class - I, Indian make heavy type - 32 mm NB Size	Each	1563	
273	LAB-00217	BMW-F.62	b) - do - labour charges only	Each	61	
274	MAT-01868	BMW-F.63	a)S & F Gunmetal (GM) Ball valve with SS Ball and SS Spindle as per IS - Class - I, Indian make heavy type - 40 mm NB Size	Each	2340	

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
275	LAB-00218	BMW-F.64	b) - do - labour charges only	Each	2395
276	MAT-01869	BMW-F.65	a) S & F Gunmetal (GM) Ball valve with SS Ball and SS Spindle as per IS - Class - I, Indian make heavy type - 50 mm NB Size	Each	4073
277	LAB-00219	BMW-F.66	b) - do - labour charges only	Each	61
278	MAT-05237	BMW-F.67	a) S& F 15 mm Nominal Bore GI pipe Light Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	180
279	LAB-00221	BMW-F.68	b) - do - labour charges only	1 RM	46
280	MAT-05238	BMW-F.69	a) S& F 20 mm Nominal Bore GI pipe Light Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	205
281	LAB-00223	BMW-F.70	b) - do - labour charges only	1 RM	46
282	MAT-05239	BMW-F.71	a) S& F 25 mm Nominal Bore GI pipe Light Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	268
283	LAB-00225	BMW-F.72	b) - do - labour charges only	1 RM	46
284	MAT-05240	BMW-F.73	a) S& F 32 mm Nominal Bore GI pipe Light Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	37
285	LAB-00227	BMW-F.74	b) - do - labour charges only	1 RM	46
286	MAT-05241	BMW-F.75	a) S& F 40 mm Nominal Bore GI pipe Light Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	417
287	LAB-00229	BMW-F.76	b) - do - labour charges only	1 RM	50
288	MAT-05242	BMW-F.77	a) S& F 50 mm Nominal Bore GI pipe Light Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	457
289	LAB-00231	BMW-F.78	b) - do - labour charges only	1 RM	75
290	MAT-05243	BMW-F.79	a) S& F 15 mm Nominal Bore GI pipe Medium Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	199
291	LAB-00233	BMW-F.80	b) - do - labour charges only	1 RM	46
292	MAT-05244	BMW-F.81	a) S& F 20 mm Nominal Bore GI pipe Medium Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	220
293	LAB-00235	BMW-F.82	b) - do - labour charges only	1 RM	46
294	MAT-05245	BMW-F.83	a) S& F 25 mm Nominal Bore GI pipe Medium Grade properties & weight as per IS 1239 ISI mark with GI fittings	1 RM	286

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
			including the cost of pipe & its fittings & labour charges complete		
295	LAB-00237	BMW-F.84	b) - do - labour charges only	1 RM	46
296	MAT-05246	BMW-F.85	a) S& F 32 mm Nominal Bore GI pipe Medium Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	398
297	LAB-00239	BMW-F.86	b) - do - labour charges only	1 RM	46
298	MAT-05247	BMW-F.87	a) S& F 40 mm Nominal Bore GI pipe Medium Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	444
299	LAB-00241	BMW-F.88	b) - do - labour charges only	1 RM	50
300	MAT-05248	BMW-F.89	a) S& F 50 mm Nominal Bore GI pipe Medium Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	48
301	LAB-00243	BMW-F.90	b) - do - labour charges only	1 RM	76
302	MAT-01870	BMW-F.91	S & F 65 mm Nominal Bore GI pipe Medium Grade properties & weight as per IS 1239 with GI fittings such as elbows tees couplings, nipples, plugs including excavation for trenches and refilling the trenches complete except for GI bends union and GI connectors with checkout and socket Tata or Zenith make or equivalent.	1 RM	837
303	MAT-01871	BMW-F.92	a) S & F 12.7 mm holder bat clamps	Each	14
304	LAB-00244	BMW-F.93	b) - do - labour charges only	Each	9
305	MAT-01872	BMW-F.94	a) S & F 19.05 mm holder bat clamps	Each	21
306	LAB-00245	BMW-F.95	b) - do - labour charges only	Each	9
307	MAT-01873	BMW-F.96	a) S & F 25.4 mm holder bat clamps	Each	28
308	LAB-00246	BMW-F.97	b) - do - labour charges only	Each	9
309	MAT-01874	BMW-F.98	a) S & F 38.1 mm holder bat clamps	Each	31
310	LAB-00247	BMW-F.99	b) - do - labour charges only	Each	11
311	MAT-01875	BMW-F.100	a) S& F 12.7x 152.0 mm NP shower rose heavy	Each	179
312	LAB-00248	BMW-F.101	b) - do - labour charges only	Each	22
313	MAT-01876	BMW-F.102	a) S& F 12.7x 137.0 mm NP shower rose heavy	Each	171
314	LAB-00249	BMW-F.103	b) - do - labour charges only	Each	25
315	MAT-01877	BMW-F.104	a) S& F 12.7x 101.6 mm NP shower rose heavy	Each	163
316	LAB-00250	BMW-F.105	b) - do - labour charges only	Each	25
317	MAT-01878	BMW-	a) S & F 12.7 x 88.9 CP fancy shower	Each	288

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
		F.106			
318	LAB-00251	BMW-F.107	b) - do - labour charges only	Each	25
319	MAT-01879	BMW-F.108	a) Supplying & fixing 12.7 mm GI drain pipe with plug for tanks (Mud valve) including making a hole	Each	48
320	LAB-00252	BMW-F.109	b) - do - labour charges only	Each	25
321	MAT-01880	BMW-F.110	a) Supplying & fixing 19.05 mm GI drain pipe with plug for tanks (Mud valve) including making a hole	Each	68
322	LAB-00253	BMW-F.111	b) - do - labour charges only	Each	24
323	MAT-01881	BMW-F.112	a) Supplying & fixing 25.4 mm GI drain pipe with plug for tanks (Mud valve) including making a hole	Each	79
324	LAB-00254	BMW-F.113	b) - do - labour charges only	Each	27
325	MAT-01882	BMW-F.114	a) Taking branch water connection from the existing 25.4 mm GIppe including cutting threading, etc, complete with fitting	Each	152
326	LAB-00255	BMW-F.115	b) - do - labour charges only	Each	27
327	MAT-01883	BMW-F.116	a) Taking branch water connection from the existing 19.05 mm GIppe including cutting threading, etc, complete with fitting,	Each	88
328	LAB-00256	BMW-F.117	b) - do - labour charges only	Each	41
329	MAT-01884	BMW-F.118	a) Taking branch water connection from the existing 12.7 mm GIppe including cutting threading, etc, complete with fitting,	Each	67
330	LAB-00257	BMW-F.119	b) - do - labour charges only	Each	35
331	MAT-01885	BMW-F.120	Supplying & fixing leather washers for 12.7 mm bib tap and stop cock	Each	1
332	MAT-01886	BMW-F.121	Supplying & fixing leather washers for 19.05 mm bib tap and stop cock	Each	3
333	MAT-01887	BMW-F.122	Supplying & Fixing 12.7 mm fibre washers	Each	3
334	MAT-01888	BMW-F.123	Supplying & Fixing 19.05 mm fibre washers	Each	3
		G	PVC PIPES & FITTINGS(Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)		
335	MAT-01889	BMW-G.01	a) Providing & Placing on Terrace(at all floor levels) polyethylene water storage tank of Double layer Roto moulded confirming to IS:12701 approved brand & manufacture with suitable cover/cap and suitable locking arrangement & making necessary holes for inlet & outlets and over flow pipes but without fittings & base support for tanks	1 Lit	8.5
336	LAB-00258	BMW-G.02	b) - do - labour charges only	1 Lit	1

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
337	MAT-01890	BMW-G.03	Supply of Plastic storage tank lid with hinges	Each	70
338	MAT-01891	BMW-G.04	Supply & Fixing 76.2 mm dia PVC elbow 1st quality	Each	45
339	MAT-01892	BMW-G.05	Supply & fixing 31.75mm dia PVC flexible waste pipe of 914.4 mm length of 1st quality	Each	24
340	MAT-01893	BMW-G.06	Supply & Fixing 38.1 mm dia PVC solid waste pipe outlet	Each	86
341	MAT-01894	BMW-G.07	Supply & fixing Fancy PVC shelf including all fittings	Each	203
342	MAT-01895	BMW-G.08	Supply & fixing of PVC low level system with internal components & short bend:10 Litres capacity Single Flush	Each	1390
343	MAT-01896	BMW-G.09	Supply & fixing of PVC low level system with internal components & short bend:10 litres capacity Dual Flush	Each	1632
344	MAT-01897	BMW-G.10	Supply & fixing of PVC low level system with internal components & short bend:8 Litres capacity single Flush	Each	786
345	MAT-01898	BMW-G.11	75 mm dia 3 M Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	236
346	MAT-01899	BMW-G.12	90 mm dia 3 M single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	375
347	MAT-01900	BMW-G.13	110 mm dia 3 M Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	447
348	MAT-01901	BMW-G.14	75 mm dia 3 M Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	267
349	MAT-01902	BMW-G.15	90 mm dia 3 M Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	425
350	MAT-01903	BMW-G.16	110 mm dia 3 M Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	520
351	MAT-01904	BMW-G.17	75 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	166
352	MAT-01905	BMW-G.18	90 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	255
353	MAT-01906	BMW-G.19	110 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	318
354	MAT-01907	BMW-G.20	75 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	176
355	MAT-01908	BMW-G.21	90 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	272
356	MAT-01909	BMW-G.22	110 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	329
357	MAT-01910	BMW-G.23	75 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	121
358	MAT-01911	BMW-G.24	90 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	187
359	MAT-01912	BMW-G.25	110 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	225
360	MAT-01913	BMW-G.26	75 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	103
361	MAT-01914	BMW-G.27	90 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	151
362	MAT-01915	BMW-G.28	110 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	194
363	MAT-01916	BMW-G.29	75 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	62

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
364	MAT-01917	BMW-G.30	90 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	104
365	MAT-01918	BMW-G.31	110 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	130
366	MAT-01919	BMW-G.32	160 MM dia 3 M Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	1066
367	MAT-01920	BMW-G.33	75 mm dia 3 M Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	400
368	MAT-01921	BMW-G.34	90 mm dia 3 M single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	644
369	MAT-01922	BMW-G.35	110 mm dia 3 M Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	765
370	MAT-01923	BMW-G.36	75 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	437
371	MAT-01924	BMW-G.37	90 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	693
372	MAT-01925	BMW-G.38	110 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	845
373	MAT-01926	BMW-G.39	75 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	263
374	MAT-01927	BMW-G.40	90 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	407
375	MAT-01928	BMW-G.41	110 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	485
376	MAT-01929	BMW-G.42	75 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	280
377	MAT-01930	BMW-G.43	90 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	425
378	MAT-01931	BMW-G.44	110 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	524
379	MAT-01932	BMW-G.45	75 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	190
380	MAT-01933	BMW-G.46	90 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	294
381	MAT-01934	BMW-G.47	110 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	358
382	MAT-01935	BMW-G.48	75 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	164
383	MAT-01936	BMW-G.49	90 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	240
384	MAT-01937	BMW-G.50	110 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	291
385	MAT-01938	BMW-G.51	75 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	106
386	MAT-01939	BMW-G.52	90 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	165
387	MAT-01940	BMW-G.53	110 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	210
388	MAT-01941	BMW-G.54	160 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	1743

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
389	MAT-01942	BMW-G.55	75 mm dia - Plain Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	46
390	MAT-01943	BMW-G.56	90 mm dia - Plain Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	64
391	MAT-01944	BMW-G.57	110 mm dia - Plain Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	77
392	MAT-01945	BMW-G.58	75 mm dia - Door Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	62
393	MAT-01946	BMW-G.59	90 mm dia - Door Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	87
394	MAT-01947	BMW-G.60	110 mm dia - Door Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	100
395	MAT-01948	BMW-G.61	75 mm dia - 45 Degree Bend - UPVC/SWR Pipe fittings	Each	36
396	MAT-01949	BMW-G.62	90 mm dia - 45 Degree Bend - UPVC/SWR Pipe fittings	Each	50
397	MAT-01950	BMW-G.63	110 mm dia - 45 Degree Bend - UPVC/SWR Pipe fittings	Each	64
398	MAT-01951	BMW-G.64	75 mm dia - Cleaning Pipe - UPVC/SWR Pipe fittings	Each	62
399	MAT-01952	BMW-G.65	90 mm dia - Cleaning Pipe - UPVC/SWR Pipe fittings	Each	90
400	MAT-01953	BMW-G.66	110 mm dia - Cleaning Pipe - UPVC/SWR Pipe fittings	Each	109
401	MAT-01954	BMW-G.67	75 mm dia - Single Tee - UPVC/SWR Pipe fittings	Each	55
402	MAT-01955	BMW-G.68	90 mm dia - Single Tee - UPVC/SWR Pipe fittings	Each	82
403	MAT-01956	BMW-G.69	110 mm dia - Single Tee - UPVC/SWR Pipe fittings	Each	100
404	MAT-01957	BMW-G.70	75 mm dia - Single Tee with Door - UPVC/SWR Pipe fittings	Each	67
405	MAT-01958	BMW-G.71	90 mm dia - Single Tee with Door - UPVC/SWR Pipe fittings	Each	100
406	MAT-01959	BMW-G.72	110 mm dia - Single Tee with Door - UPVC/SWR Pipe fittings	Each	120
407	MAT-01960	BMW-G.73	75 mm dia - Double Tee - UPVC/SWR Pipe fittings	Each	105
408	MAT-01961	BMW-G.74	90 mm dia - Double Tee - UPVC/SWR Pipe fittings	Each	169
409	MAT-01962	BMW-G.75	110 mm dia - Double Tee - UPVC/SWR Pipe fittings	Each	200
410	MAT-01963	BMW-G.76	75 mm dia - Double Tee with Door - UPVC/SWR Pipe fittings	Each	140
411	MAT-01964	BMW-G.77	90 mm dia - Double Tee with Door - UPVC/SWR Pipe fittings	Each	265
412	MAT-01965	BMW-G.78	110 mm dia - Double Tee with Door - UPVC/SWR Pipe fittings	Each	258
413	MAT-01966	BMW-G.79	75 mm dia - Single 'Y' - UPVC/SWR Pipe fittings	Each	69
414	MAT-01967	BMW-G.80	90 mm dia - Single 'Y' - UPVC/SWR Pipe fittings	Each	109
415	MAT-01968	BMW-G.81	110 mm dia - Single 'Y' - UPVC/SWR Pipe fittings	Each	126
416	MAT-01969	BMW-G.82	75 mm dia - Single 'Y' with Door - UPVC/SWR Pipe fittings	Each	87
417	MAT-01970	BMW-G.83	90 mm dia - Single 'Y' with Door - UPVC/SWR Pipe fittings	Each	138
418	MAT-01971	BMW-G.84	110 mm dia - Single 'Y' with Door - UPVC/SWR Pipe fittings	Each	159
419	MAT-01972	BMW-G.85	75 mm dia - Double 'Y' - UPVC/SWR Pipe fittings	Each	93

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic for 2022-23 (Rs.)	Rate SoR
420	MAT-01973	BMW-G.86	90 mm dia - Double 'Y' - UPVC/SWR Pipe fittings	Each	146	
421	MAT-01974	BMW-G.87	110 mm dia - Double 'Y' - UPVC/SWR Pipe fittings	Each	166	
422	MAT-01975	BMW-G.88	75 mm dia - Double 'Y' with Door - UPVC/SWR Pipe fittings	Each	122	
423	MAT-01976	BMW-G.89	90 mm dia - Double 'Y' with Door - UPVC/SWR Pipe fittings	Each	190	
424	MAT-01977	BMW-G.90	110 mm dia - Double 'Y' with Door - UPVC/SWR Pipe fittings	Each	214	
425	MAT-01978	BMW-G.91	75 mm dia - Coupler - UPVC/SWR Pipe fittings	Each	33	
426	MAT-01979	BMW-G.92	90 mm dia - Coupler - UPVC/SWR Pipe fittings	Each	47	
427	MAT-01980	BMW-G.93	110 mm dia - Coupler - UPVC/SWR Pipe fittings	Each	53	
428	MAT-01981	BMW-G.94	90 x 75 mm dia - Reducer - UPVC/SWR Pipe fittings	Each	55	
429	MAT-01982	BMW-G.95	110 x 75 mm dia - Reducer - UPVC/SWR Pipe fittings	Each	53	
430	MAT-01983	BMW-G.96	90 x 110mm dia - Reducer - UPVC/SWR Pipe fittings	Each	74	
431	MAT-01984	BMW-G.97	63 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	8	
432	MAT-01985	BMW-G.98	75 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	13	
433	MAT-01986	BMW-G.99	90 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	16	
434	MAT-01987	BMW-G.100	110 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	18	
435	MAT-01988	BMW-G.101	40 mm dia - Pipe Clip - UPVC/SWR Pipe fittings - Pipe Clip - UPVC/SWR Pipe fittings	Each	9	
436	MAT-01989	BMW-G.102	50 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	13	
437	MAT-01990	BMW-G.103	63 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	13	
438	MAT-01991	BMW-G.104	75 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	15	
439	MAT-01992	BMW-G.105	90 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	16	
440	MAT-01993	BMW-G.106	110 mm - Pipe Clip - UPVC/SWR Pipe fittings	Each	17	
441	MAT-01994	BMW-G.107	160 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	33	
442	MAT-01995	BMW-G.108	P' Trap (Small without Air vent) 110 mm - UPVC/SWR Pipe fittings	Each	173	
443	MAT-01996	BMW-G.109	P' Trap (Small with Air vent) 110 mm - UPVC/SWR Pipe fittings	Each	192	
444	MAT-01997	BMW-G.110	P' Trap (Big with Air vent) 110 mm - UPVC/SWR Pipe fittings	Each	219	
445	MAT-01998	BMW-G.111	P' Trap (Big without Air vent) 110 mm - UPVC/SWR Pipe fittings	Each	202	
446	MAT-01999	BMW-G.112	Floor Trap (Bell Mouth) 110 mm - UPVC/SWR Pipe fittings	Each	210	
447	MAT-02000	BMW-G.113	Bell Mouth Trap 7 " (177.8 mm) - UPVC/SWR Pipe fittings	Each	305	

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
448	MAT-02001	BMW-G.114	4" (101.6 mm) Nahany Trap (Without Jali with inlet)UPVC/SWR Pipe fittings	Each	90
449	MAT-02002	BMW-G.115	3" (76.2 mm) Nahany Trap (without Jali without inlet)UPVC/SWR Pipe fittings	Each	81
450	MAT-02003	BMW-G.116	4" (101.6 mm) Nahany Trap (without inlet with out Jali)UPVC/SWR Pipe fittings	Each	90
451	MAT-02004	BMW-G.117	Mini Trap - UPVC/SWR Pipe fittings	Each	49
452	MAT-02005	BMW-G.118	3" (76.2 mm) Nahany Trap with Jali - UPVC/SWR Pipe fittings	Each	93
453	MAT-02006	BMW-G.119	4" (101.6 mm) multi floor trap with Jali- UPVC/SWR Pipe fittings	Each	133
454	MAT-02007	BMW-G.120	4" (101.6) multi floor trap with out Jalli- UPVC/SWR Pipe fittings	Each	104
455	MAT-02008	BMW-G.121	Round Jali - UPVC/SWR Pipe fittings	Each	22.
456	MAT-02009	BMW-G.122	Square tile & Jalli - UPVC/SWR Pipe fittings	Each	36
457	MAT-02010	BMW-G.123	Pipe connector(with LIP ring) - UPVC/SWR Pipe fittings	Each	133
458	MAT-02011	BMW-G.124	Pipe connector(with out LIP ring) - UPVC/SWR Pipe fittings	Each	108
459	MAT-02012	BMW-G.125	4" (101.6 mm) Floor Trap - UPVC/SWR Pipe fittings	Each	128
460	MAT-02013	BMW-G.126	5" (127.mm) floor Trap - UPVC/SWR Pipe fittings	Each	135.
461	MAT-02014	BMW-G.127	75 mm dia - Door cap - UPVC/SWR Pipe fittings	Each	34
462	MAT-02015	BMW-G.128	90 mm dia - Door cap - UPVC/SWR Pipe fittings	Each	59
463	MAT-02016	BMW-G.129	110 mm dia - Door cap - UPVC/SWR Pipe fittings	Each	49
464	MAT-02017	BMW-G.130	75 mm dia - Socket plug - UPVC/SWR Pipe fittings	Each	33
465	MAT-02018	BMW-G.131	90 mm dia - Socket plug - UPVC/SWR Pipe fittings	Each	57
466	MAT-02019	BMW-G.132	110 mm dia - Socket plug - UPVC/SWR Pipe fittings	Each	59
467	MAT-02020	BMW-G.133	75 mm dia - Rubber ring for Socket - UPVC/SWR Pipe fittings	Each	7
468	MAT-02021	BMW-G.134	90 mm dia - Rubber ring for Socket - UPVC/SWR Pipe fittings	Each	8
469	MAT-02022	BMW-G.135	110 mm dia - Rubber ring for Socket - UPVC/SWR Pipe fittings	Each	9
470	MAT-02023	BMW-G.136	75 mm dia - Door Socket - UPVC/SWR Pipe fittings	Each	8

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic for 2022-23 (Rs.)	Rate SoR
471	MAT-02024	BMW-G.137	90 mm dia - Door Socket - UPVC/SWR Pipe fittings	Each	9	
472	MAT-02025	BMW-G.138	110 mm dia - Door Socket - UPVC/SWR Pipe fittings	Each	13	
473	MAT-02026	BMW-G.139	LIP ring 110 mm - UPVC/SWR Pipe fittings	Each	63	
474	MAT-02027	BMW-G.140	Rubber Lubricant - 100 Grams	Each	24	
475	MAT-02028	BMW-G.141	Rubber Lubricant- 250Grams	Each	47	
476	MAT-02029	BMW-G.142	Rubber Lubricant - 500 Grams	Each	85	
477	MAT-02030	BMW-G.143	Rubber Lubricant - 1000 Grams	Each	202	
478	MAT-02031	BMW-G.144	P' Trap with lip UPVC/SWR Pipe fittings	Each	275	
479	MAT-02032	BMW-G.145	50 ml - Solvent Cement	Each	15	
480	MAT-02033	BMW-G.146	100 ml - Solvent Cement	Each	23	
481	MAT-02034	BMW-G.147	250 ml - Solvent Cement	Each	55	
482	MAT-02035	BMW-G.148	500 ml - Solvent Cement	Each	107	
483	MAT-02036	BMW-G.149	1000 ml - Solvent Cement	Each	210	
484	MAT-02037	BMW-G.150	110mm x 90 mm - Internal Reducer - UPVC/SWR Pipe fittings	Each	83	
485	MAT-02038	BMW-G.151	160 mm x 110 mm - Internal Reducer - UPVC/SWR Pipe fittings	Each	208	
486	LAB-00259	BMW-G.152	Labour charges for laying, fixing and commissioning thePVC pipes including couplers/ bends/ tees etc any diameter including fixing necessary fittings like bends, plugs, couplers, junctions, tees, etc with solvent jointing as per standard practice	1 RM	79	
		H	CENTRIFUGAL CAST IRON PIPES & FITTINGS AS PER IS: 3989 - 1984			
487	MAT-02039	BMW-H.01	75 mm dia CI (spun) soils Waste & Ventilating pipe (3 M)	Each	1387	
488	MAT-02040	BMW-H.02	100 mm dia CI (spun) soils Waste & Ventilating pipe (3 M)	Each	1847	
489	MAT-02041	BMW-H.03	150 mm dia CI (spun) soils Waste & Ventilating pipe (3 M)	Each	3384	
490	MAT-02042	BMW-H.04	75 mm dia CI (spun) soils Waste & Ventilating pipe (3 M) Double socket	Each	1539	
491	MAT-02043	BMW-H.05	100 mm dia CI (spun) soils Waste & Ventilating pipe (3 M) Double socket	Each	2077	
492	MAT-02044	BMW-H.06	75 mm dia 9'-0" (2743.2 mm) CI (Spun) pipes	Each	1247	

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
493	MAT-02045	BMW-H.07	100 mm dia 9'-0" (2743.2 mm) CI (Spun) pipes	Each	1666
494	MAT-02046	BMW-H.08	75 mm dia 8'-0" (2438.4 mm) CI (Spun) pipes	Each	1116
495	MAT-02047	BMW-H.09	100 mm dia 8'-0" (2438.4 mm) CI (Spun) pipes	Each	1483
496	MAT-02048	BMW-H.10	75 mm dia 6'-0" (1828.8 mm) CI (Spun) pipes	Each	907
497	MAT-02049	BMW-H.11	100 mm dia 6'-0" (1828.8 mm) CI (Spun) pipes	Each	1183
498	MAT-02050	BMW-H.12	75 mm dia 6'-0" (1828.8 mm) Double Socket CI (Spun) pipes	Each	954
499	MAT-02051	BMW-H.13	100 mm dia 6'-0" (1828.8 mm) Double Socket CI (Spun) pipes	Each	1183
500	MAT-02052	BMW-H.14	75 mm dia Cut pipes (pieces) 1 foot (304.8 mm) CI (Spun) fittings	Each	331
501	MAT-02053	BMW-H.15	100 mm dia Cut pipes (pieces) 1 foot (304.8 mm) CI (Spun) fittings	Each	380
502	MAT-02054	BMW-H.16	75 mm dia Cut pipes (pieces) 1'.6" (457.2 mm) CI (Spun) fittings	Each	474
503	MAT-02055	BMW-H.17	100 mm dia Cut pipes (pieces) 1'.6" (457.2 mm) CI (Spun) fittings	Each	545
504	MAT-02056	BMW-H.18	150 mm dia Cut pipes (pieces) 1'.6" (457.2 mm) CI (Spun) fittings	Each	1040
505	MAT-02057	BMW-H.19	75 mm dia Cut pipes (pieces) 2 feet (609.6 mm) CI (Spun) fittings	Each	654
506	MAT-02058	BMW-H.20	100 mm dia Cut pipes (pieces) 2 feet (609.6 mm) CI (Spun) fittings	Each	721
507	MAT-02059	BMW-H.21	150 mm dia Cut pipes (pieces) 2 feet (609.6 mm) CI (Spun) fittings	Each	1303
508	MAT-02060	BMW-H.22	75 mm dia Cut pipes (pieces) 3 feet (914.4 mm) CI (Spun) fittings	Each	1003
509	MAT-02061	BMW-H.23	100 mm dia Cut pipes (pieces) 3 feet (914.4 mm) CI (Spun) fittings	Each	1353
510	MAT-02062	BMW-H.24	75 mm dia Cut pipes (pieces) 4 feet (1219.2 mm) CI (Spun) fittings	Each	1103
511	MAT-02063	BMW-H.25	100 mm dia Cut pipes (pieces) 4 feet (1219.2 mm) CI (Spun) fittings	Each	1650
512	MAT-02064	BMW-H.26	75 mm dia Plain Bend - CI (Spun) fittings	Each	340
513	MAT-02065	BMW-H.27	100 mm dia Plain Bend - CI (Spun) fittings	Each	401
514	MAT-02066	BMW-H.28	150 mm dia Plain Bend - CI (Spun) fittings	Each	954
515	MAT-02067	BMW-H.29	75 mm dia Door Bend - CI (Spun) fittings	Each	353
516	MAT-02068	BMW-H.30	100 mm dia Door Bend - CI (Spun) fittings	Each	457
517	MAT-02069	BMW-H.31	150 mm dia Door Bend - CI (Spun) fittings	Each	1045
518	MAT-02070	BMW-H.32	75 mm dia Plain Bend 45 Degrees - CI (Spun) fittings	Each	340
519	MAT-02071	BMW-H.33	100 mm dia Plain Bend 45 Degrees - CI (Spun) fittings	Each	401
520	MAT-02072	BMW-H.34	150 mm dia Plain Bend 45 Degrees - CI (Spun) fittings	Each	954
521	MAT-02073	BMW-H.35	75 mm dia Door Bend 45 Degrees - CI (Spun) fittings	Each	353

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.) (Rs.)
522	MAT-02074	BMW-H.36	100 mm dia Door Bend 45 Degrees - CI (Spun) fittings	Each	457
523	MAT-02075	BMW-H.37	150 mm dia Door Bend 45 Degrees - CI (Spun) fittings	Each	1045
524	MAT-02076	BMW-H.38	Horn Bend Plain 101.6 x 50.8 mm (4" x 2") 100 mm dia - CI (Spun) fittings	Each	693
525	MAT-02077	BMW-H.39	Horn Bend door 101.6 x 50.8 mm (4" x 2") 100 mm dia - CI (Spun) fittings	Each	810
526	MAT-02078	BMW-H.40	75 mm dia Heel Rest Bend - CI (Spun) fittings	Each	362.
527	MAT-02079	BMW-H.41	100 mm dia Heel Rest Bend - CI (Spun) fittings	Each	463
528	MAT-02080	BMW-H.42	150 mm dia Heel Rest Bend - CI (Spun) fittings	Each	985
529	MAT-02081	BMW-H.43	75 mm dia Single Branch Plain "T" - CI (Spun) fittings	Each	457
530	MAT-02082	BMW-H.44	100 mm dia Single Branch Plain "T" - CI (Spun) fittings	Each	616
531	MAT-02083	BMW-H.45	150 mm dia Single Branch Plain "T" - CI (Spun) fittings	Each	1272
532	MAT-02084	BMW-H.46	75 mm dia Single Branch Door "T" - CI (Spun) fittings	Each	539
533	MAT-02085	BMW-H.47	100 mm dia Single Branch Door "T" - CI (Spun) fittings	Each	714
534	MAT-02086	BMW-H.48	150 mm dia Single Branch Door "T" - CI (Spun) fittings	Each	1342
535	MAT-02087	BMW-H.49	75 mm dia Single Branch plain "Y" - CI (Spun) fittings	Each	539
536	MAT-02088	BMW-H.50	100 mm dia Single Branch plain "Y" - CI (Spun) fittings	Each	714
537	MAT-02089	BMW-H.51	150 mm dia Single Branch plain "Y" - CI (Spun) fittings	Each	1576
538	MAT-02090	BMW-H.52	75 mm dia Single Branch Door "Y" - CI (Spun) fittings	Each	590
539	MAT-02091	BMW-H.53	100 mm dia Single Branch Door "Y" - CI (Spun) fittings	Each	789
540	MAT-02092	BMW-H.54	150 mm dia Single Branch Door "Y" - CI (Spun) fittings	Each	1697
541	MAT-02093	BMW-H.55	75 mm dia Double Branch Plain "T" - CI (Spun) fittings	Each	623
542	MAT-02094	BMW-H.56	100 mm dia Double Branch Plain "T" - CI (Spun) fittings	Each	840
543	MAT-02095	BMW-H.57	75 mm dia Double Branch Door "T" - CI (Spun) fittings	Each	695
544	MAT-02096	BMW-H.58	100 mm dia Double Branch Door "T" - CI (Spun) fittings	Each	876
545	MAT-02097	BMW-H.59	75 mm dia Double Branch Plain "Y" - CI (Spun) fittings	Each	695
546	MAT-02098	BMW-H.60	100 mm dia Double Branch Plain "Y" - CI (Spun) fittings	Each	876
547	MAT-02099	BMW-H.61	75 mm dia Double Branch Door "Y" - CI (Spun) fittings	Each	733
548	MAT-02100	BMW-H.62	100 mm dia Double Branch Door "Y" - CI (Spun) fittings	Each	950
549	MAT-02101	BMW-H.63	75 mm dia Shoe Bend - CI (Spun) fittings	Each	431
550	MAT-02102	BMW-H.64	100 mm dia Shoe Bend - CI (Spun) fittings	Each	503
551	MAT-02103	BMW-H.65	150 mm dia Shoe Bend - CI (Spun) fittings	Each	1021
552	MAT-02104	BMW-H.66	75 mm dia Collar - CI (Spun) fittings	Each	294
553	MAT-02105	BMW-H.67	100 mm dia Collar - CI (Spun) fittings	Each	357
554	MAT-02106	BMW-H.68	150 mm dia Collar - CI (Spun) fittings	Each	733
555	MAT-02107	BMW-H.69	75 mm dia Cowl - CI (Spun) fittings	Each	260
556	MAT-02108	BMW-H.70	100 mm dia Cowl - CI (Spun) fittings	Each	294
557	MAT-02109	BMW-H.71	150 mm dia Cowl - CI (Spun) fittings	Each	659

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
558	MAT-02110	BMW-H.72	75 mm dia Offset 3" (76.2 mm) projection - CI (Spun) fittings	Each	377
559	MAT-02111	BMW-H.73	100 mm dia Offset 3" (76.2 mm) projection - CI (Spun) fittings	Each	457
560	MAT-02112	BMW-H.74	150 mm dia Offset 3" (76.2 mm) projection - CI (Spun) fittings	Each	922
561	MAT-02113	BMW-H.75	75 mm dia Offset 6" (152.4mm) projection - CI (Spun) fittings	Each	412
562	MAT-02114	BMW-H.76	100 mm dia Offset 6" (152.4mm) projection - CI (Spun) fittings	Each	539
563	MAT-02115	BMW-H.77	150 mm dia Offset 6" (152.4mm) projection - CI (Spun) fittings	Each	1073
564	MAT-02116	BMW-H.78	75 mm dia Long Door Bend - CI (Spun) fittings	Each	865
565	MAT-02117	BMW-H.79	100 mm dia Long Door Bend - CI (Spun) fittings	Each	930
566	MAT-02118	BMW-H.80	75 mm dia Hand Hole pipe (Inspection pipe)	Each	497
567	MAT-02119	BMW-H.81	100 mm dia Hand Hole pipe (Inspection pipe)	Each	677
568	MAT-02120	BMW-H.82	150 mm dia Hand Hole pipe (Inspection pipe)	Each	901
569	MAT-02121	BMW-H.83	75 mm dia P Traps - CI (Spun) fittings	Each	539
570	MAT-02122	BMW-H.84	100 mm dia P Traps - CI (Spun) fittings	Each	738
571	MAT-02123	BMW-H.85	4" x 3" (101.6 mm x 76.2mm) P. Traps 100 mm dia - CI (Spun) fittings	Each	846
572	MAT-02124	BMW-H.86	4" x 3" (101.6 mm x 76.2mm) Vent Traps 100 mm dia - CI (Spun) fittings	Each	846
573	MAT-02125	BMW-H.87	4" x 3" (101.6 mm x 76.2mm) Reducer 75 mm dia - CI (Spun) fittings	Each	525
574	MAT-02126	BMW-H.88	6" x 4" (152.4 mm x 101.6 mm) Reducer 75 mm dia - CI (Spun) fittings	Each	719
575	MAT-02127	BMW-H.89	3" x 2" (76.2 mm x 50.8 mm) plain T 75 mm dia - CI (Spun) fittings	Each	448
576	MAT-02128	BMW-H.90	3" x 2" (76.2 mm x 50.8 mm) Door T 75 mm dia - CI (Spun) fittings	Each	701
577	MAT-02129	BMW-H.91	3" x 2" (76.2 mm x 50.8 mm) Plain Y 75 mm dia - CI (Spun) fittings	Each	701
578	MAT-02130	BMW-H.92	3" x 2" (76.2 mm x 50.8 mm) Door Y 75 mm dia - CI (Spun) fittings	Each	701
579	MAT-02131	BMW-H.93	4" x 3" (101.6 mm x 76.2mm) Plain T 75 mm dia - CI (Spun) fittings	Each	701
580	MAT-02132	BMW-H.94	4" x 3" (101.6 mm x 76.2mm) Door T 75 mm dia - CI (Spun) fittings	Each	742
581	MAT-02133	BMW-H.95	4" x 3" (101.6 mm x 76.2mm) Plain Y 75 mm dia - CI (Spun) fittings	Each	742
582	MAT-02134	BMW-H.96	4" x 3" (101.6 mm x 76.2mm) Door Y 75 mm dia - CI (Spun) fittings	Each	793
583	MAT-02135	BMW-H.97	6" x 4" (152.4 mm x 101.6 mm) Plain T 75 mm dia - CI	Each	1037

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
			(Spun) fittings		
584	MAT-02136	BMW-H.98	6" x 4" (152.4 mm x101.6 mm)Door T 75 mm dia - CI (Spun) fittings	Each	1124
585	MAT-02137	BMW-H.99	6" x 4" (152.4 mm x101.6 mm) Plain Y 75 mm dia - CI (Spun) fittings	Each	1190
586	MAT-02138	BMW-H.100	6" x 4" (152.4 mm x101.6 mm)DoorY 75 mm dia - CI (Spun) fittings	Each	1453
587	MAT-02139	BMW-H.101	75 mm diaPlain " T" 27 " (685.8 mm) Special Types of Long Fittings	Each	1506
588	MAT-02140	BMW-H.102	100 mm dia - Plain " T" 27 " (685.8 mm) Special Types of Long CI (Spun) fittings	Each	2115
589	MAT-02141	BMW-H.103	75 mm dia Door "T" 27" (685.8 mm)Special Types of Long CI (Spun) fittings	Each	1682
590	MAT-02142	BMW-H.104	100mm dia Door "T" 27" (685.8 mm)Special Types of Long CI (Spun) fittings	Each	2324
591	MAT-02143	BMW-H.105	75 mm diaPlain " Y" 27" (685.8 mm) Special Types of Long CI (Spun) fittings	Each	1682.1
592	MAT-02144	BMW-H.106	100mm diaPlain " Y" 27" (685.8 mm) Special Types of Long CI (Spun) fittings	Each	2324
593	MAT-02145	BMW-H.107	75 mm dia Door " Y" 27" (685.8 mm)Special Types of Long CI (Spun) fittings	Each	1875
594	MAT-02146	BMW-H.108	100mm dia Door " Y" 27" (685.8 mm)Special Types of Long CI (Spun) fittings	Each	2552
		I	MISCELLANEOUS ITEMS		
595	MAT-02147	BMW-I.01	a) Supplying & Fixing solder joints up to 50.8 mm dia	Each	62
596	LAB-00260	BMW-I.02	b) - do - labour charges only	Each	21
597	MAT-02148	BMW-I.03	a) Supplying & Fixing solution joints up to 50.8 dia Ist quality.	Each	13
598	LAB-00261	BMW-I.04	b) - do - labour charges only	Each	2
599	MAT-02149	BMW-I.05	Chiselling the stone masonry wall for fixing of wooden blocks including finishing as directed by the department	Each	34
600	MAT-02150	BMW-I.06	Chiselling the stone masonry wall and repairs as directed by the department.	1 Rm	163
601	MAT-02151	BMW-I.07	Chiselling the brick masonry wall and repairs as directed by the department.	1 Rm	34
602	MAT-02152	BMW-I.08	a) S & F NP telephonic shower spray set & valve mixer with rest and all fittings complete (ARK/ESSCO or equivalent make)	Each	2102
603	LAB-00262	BMW-I.09	b) - do - labour charges only	Each	455
604	MAT-02153	BMW-I.10	a) S & F NP shower spray fancy with NP Flexible pipe	Each	563
605	LAB-00263	BMW-I.11	b) - do - labour charges only	Each	151
606	MAT-02154	BMW-I.12	a) S & F NP cover for Nahany trap	Each	32
607	LAB-00264	BMW-I.13	b) - do - labour charges only	Each	21
608	MAT-02155	BMW-I.14	a) Painting the flushing tank with white enamel paint	Each	119

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic for 2022-23 (Rs.)	Rate SoR
609	LAB-00265	BMW-I.15	b) - do - labour charges only	Each	73	
610	MAT-02156	BMW-I.16	S & F internal fittings for flush tank Parryplast wonder flush or equivalent	Each	769	
611	MAT-02157	BMW-I.17	Repairing and over hauling flushing tank	Each	91	
612	MAT-02158	BMW-I.18	a) Supplying & Fixing NP chain rubber and plug for basin	Each	41	
613	LAB-00266	BMW-I.19	b) - do - labour charges only	Each	7	
614	MAT-02159	BMW-I.20	a) S & F 25.4 mm dia& 609.6 mm long aluminium anodized towel rod with brackets and aluminium screws	Each	162	
615	LAB-00267	BMW-I.21	b) - do - labour charges only	Each	50	
616	MAT-02160	BMW-I.22	a) S & F 19.04 mm dia& 609.6 mm long aluminium anodized towel rod with brackets and aluminium screws	Each	144	
617	LAB-00268	BMW-I.23	b) - do - labour charges only	Each	76	
618	MAT-02161	BMW-I.24	a) S & F 609.6 mm long 127 mm wide plate glass shelf with superior quality aluminium railing complete with aluminium screws	Each	206	
619	LAB-00269	BMW-I.25	b) - do - labour charges only	Each	63	
620	MAT-02162	BMW-I.26	a) S & F 609.6 mm long 127 mm wide plate glass shelf only	Each	67	
621	LAB-00270	BMW-I.27	b) - do - labour charges only	Each	13	
622	MAT-02163	BMW-I.28	a) S & F NP soap dish heavy type with NP SCREWS	Each	231	
623	LAB-00271	BMW-I.29	b) - do - labour charges only	Each	14	
624	MAT-02164	BMW-I.30	a) S & F NP holder brackets with screws	Each	48	
625	LAB-00272	BMW-I.31	b) - do - labour charges only	Each	16	
626	MAT-02165	BMW-I.32	a) S & F liquid soap container NP metallic with NP brackets and screws.	Each	232	
627	LAB-00273	BMW-I.33	b) - do - labour charges only	Each	25	
628	MAT-02166	BMW-I.34	a) S & F 31.75 mm C.P TRAPS	Each	303	
629	LAB-00274	BMW-I.35	b) - do - labour charges only	Each	50	
630	MAT-02167	BMW-I.36	a) Supplying & fixing 88.9 mm A.C cowls	Each	69	
631	LAB-00275	BMW-I.37	b) - do - labour charges only	Each	16	
632	MAT-02168	BMW-I.38	a)Supplying & fixing A.CCowl 63.5 mm dia	Each	47	
633	LAB-00276	BMW-I.39	b) - do - labour charges only	Each	13	
634	MAT-02169	BMW-I.40	Removing and refixing W.C s	Each	217	
635	MAT-02170	BMW-I.41	Removing and refixing wash hand basins of any size with fittings complete	Each	208	
636	MAT-02171	BMW-I.42	a)S & F 76.2 x 101.6 mm teak wood block complete	Each	25	
637	LAB-00277	BMW-I.43	b) - do - labour charges only	Each	11	
638	LAB-00278	BMW-I.44	Cutting holes in C.C; basement & repairs Labour charges only	Each	121	
639	LAB-00279	BMW-I.45	Cutting holes in stone masonry& basement and repairs Labour charges only	Each	81	
640	LAB-00280	BMW-I.46	Cutting holes in Brick masonry& repairs Labour charges	Each	54	

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic for 2022-23 (Rs.)	Rate SoR
			only			
641	LAB-00281	BMW-I.47	Cutting holes in RCC slab floor & repairs Labour charges only	Each	81	
642	MAT-02172	BMW-I.48	a)Supplying & Fixing 12.7 mm PVC connection with brass union nut C.P coated	Each	95	
643	LAB-00282	BMW-I.49	b) - do - labour charges only	Each	19	
644	MAT-02173	BMW-I.50	a) S & F 12.7 mm .M.P couplings	Each	34	
645	LAB-00283	BMW-I.51	b) - do - labour charges only	Each	13	
646	MAT-02174	BMW-I.52	a) S & F 19.05 mm M.P couplings	Each	41	
647	LAB-00284	BMW-I.53	b) - do - labour charges only	Each	13	
648	MAT-02175	BMW-I.54	a) S& F MP coupling 25.4 mm dia	Each	91	
	LAB-00285		b) - do - labour charges only	Each	13	
649	MAT-02176	BMW-I.55	a) S & FPVC Rubber adopter for LLC and bend	Each	19	
650	LAB-00286	BMW-I.56	b) - do - labour charges only	Each	8	
651	MAT-02177	BMW-I.57	a) S& F 31.75 mm Brass union nuts	Each	34	
652	LAB-00287	BMW-I.58	b) - do - labour charges only	Each	7	
653	MAT-02178	BMW-I.59	a) S& F 38.1 mm Brass union nuts	Each	37	
654	LAB-00288	BMW-I.60	b) - do - labour charges only	Each	11	
655	MAT-02179	BMW-I.61	a) Constructing Brick masonry chamber over the gully trap or peet valve and fitted with 304.8 x 228.6 m size CI frame and hinged cover.	Each	468	
656	LAB-00289	BMW-I.62	b) - do - labour charges only	Each	113	
657	MAT-02180	BMW-I.63	a) Constructing Brick masonry support for G.I pipe with C.M 304.8 x 228.6 x228.6 mm size includingplastering and finishing etc. complete.	Each	76	
658	LAB-00290	BMW-I.64	b) - do - labour charges only	Each	25	
659	MAT-02181	BMW-I.65	a) Supplying & fixing 304.8 x 228.6 mm CI frame & cover over gully taps	Each	122	
660	LAB-00291	BMW-I.66	b) - do - labour charges only	Each	40	
661	MAT-02182	BMW-I.67	a) Supplying & fixing CI Nahany trap grating	Each	21	
662	LAB-00292	BMW-I.68	b) - do - labour charges only	Each	13	
663	MAT-02183	BMW-I.69	a) Supplying & fixing CI gully trap grating	Each	49	
664	LAB-00293	BMW-I.70	b) - do - labour charges only	Each	13	
665	MAT-02184	BMW-I.71	a) Supplying & fixing valves for brass ball cocks 25.4 mm dia	Each	19	
666	LAB-00294	BMW-I.72	b) - do - labour charges only	Each	11	
667	MAT-02185	BMW-I.73	a) Supplying & fixing 12.7 m valve for bib tap or stop cocks	Each	18	
668	LAB-00295	BMW-I.74	b) - do - labour charges only	Each	7	
669	MAT-02186	BMW-I.75	a) Supplying & fixing 19.05 m valve for bib tap or stop cocks	Each	39	
670	LAB-00296	BMW-I.76	b) - do - labour charges only	Each	13	

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic for 2022-23 (Rs.)	Rate SoR
671	MAT-02187	BMW-I.77	Removing 12.7 mm Gpipe and refixing the same	Mr.	65	
672	MAT-02188	BMW-I.78	Removing 19.05 mm Gpipe and refixing the same	Mr.	72	
673	MAT-02189	BMW-I.79	Removing 25.4 mm Gpipe and refixing the same	Mr.	108	
674	MAT-02190	BMW-I.80	Removing 38.1 mm Gpipe and refixing the same	Rm	136	
675	MAT-02191	BMW-I.81	Removing 50.8 mm Gpipe and refixing the same	Rm	159	
676	MAT-02192	BMW-I.82	Cleaning the W.C with acid and Vim powder	Each	44	
677	MAT-02193	BMW-I.83	Cleaning the Urinal with acid and Vim power	Each	44	
678	MAT-02194	BMW-I.84	Cleaning the wash basin with acid and Vim powder	Each	44	
679	MAT-02195	BMW-I.85	Cleaning theE.W.C with acid and Vim power	Each	44	
680	MAT-02196	BMW-I.86	Supplying & fixing 914.4 x 457.2 mm CI man hole frame and cover (light weight) 30 Kgs	Each	1920	
681	MAT-02197	BMW-I.87	Supplying & fixing 602 x 602 mm CI man hole frame and cover (light weight) 30 Kgs	Each	2843	
682	LAB-00297	BMW-I.88	b) - do - labour charges only	Each	158	
683	MAT-02198	BMW-I.89	a) Supplying & fixing CI steps for septic tank.	Each	63	
684	LAB-00298	BMW-I.90	b) - do - labour charges only	Each	13	
685	MAT-02199	BMW-I.91	a) Supplying & fixing 50.8cm dia C.I. Man hole frame & cover for 914.4 mm dia chamber (20 Kgs - Light weight)	Each	1243	
686	LAB-00299	BMW-I.92	b) - do - labour charges only	Each	158	
687	MAT-02200	BMW-I.93	a) Supplying & fixing 50.8cm dia C.I. Man hole frame & cover for 914.4 mm dia chamber(Medium weight) as per IS:1726 - 40 Kgs	Each	2579	
688	LAB-00300	BMW-I.94	b) - do - labour charges only	Each	403	
689	LAB-00301	BMW-I.95	Cost. 50.8 mm thick RCM baffle wall with 2.267 Kg steel & rabbit wire mesh in CM 1:3 with fine rendering in neat cement labour charges Only	1Sqm	235	
690	MAT-02201	BMW-I.96	a) Cost. 50.8 mm RCC partition wall	1Sqm	263	
691	LAB-00302	BMW-I.97	b) - do - labour charges only	1 Sqm	50	
692	MAT-02202	BMW-I.98	a)S& F double layer of bamboo matting tarred on both sides.	10 Sqm	606	
693	LAB-00303	BMW-I.99	b) - do - labour charges only	10 Sqm	139	
694	MAT-02203	BMW-I.100	Removing of 101.6 m or 76.2 mm CI pipe	1 RM	34	
695	MAT-02204	BMW-I.101	a) Supplying & fixing 76.2 mm W.I clamps	Each	25	
696	LAB-00304	BMW-I.102	b) - do - labour charges only	Each	11	
697	MAT-02205	BMW-I.103	a) Supplying & fixing NP coat hook	Each	45	
698	LAB-00305	BMW-I.104	b) - do - labour charges only	Each	13	
699	MAT-02206	BMW-I.105	a) Supplying and fixing TV shape mirror with plastic frame size 609.6 mm x 457 .2 mm	Each	502	
700	LAB-00306	BMW-I.106	b) - do - labour charges only	Each	132	
701	MAT-02207	BMW-I.107	a) Supplying & fixing GI pipe plug of size 12.7 mm dia	Each	10	

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic for 2022-23 (Rs.)	Rate SoR
702	LAB-00307	BMW-I.108	b) - do - labour charges only	Each	1	
703	MAT-02208	BMW-I.109	a) Supplying & fixing 19.06 mm dia GI plug	Each	14	
704	LAB-00308	BMW-I.110	b) - do - labour charges only	Each	1	
705	MAT-02209	BMW-I.111	a) Supplying and fixing 38.1 mm dia of GI plug	Each	69	
706	LAB-00309	BMW-I.112	b) - do - labour charges only	Each	11	
707	MAT-02210	BMW-I.113	a) Supplying & fixing 50.8 mm dia of GI PLUG	Each	106	
708	LAB-00310	BMW-I.114	b) - do - labour charges only	Each	13	
709	MAT-02211	BMW-I.115	a) Supplying & fixing 76.2 mm dia of GI PLUG	Each	190	
710	LAB-00311	BMW-I.116	b) - do - labour charges only	Each	21	
711	MAT-02212	BMW-I.117	a) Supplying & fixing C.P flange.	Each	25	
712	LAB-00312	BMW-I.118	b) - do - labour charges only	Each	9	
713	MAT-02213	BMW-I.119	a) Supplying & fixing stainless steel sink size 36" x 18" (914.4x457.2mm) 1 mm thick with accessories	Each	7175	
714	LAB-00313	BMW-I.120	b) - do - labour charges only	Each	574	
715	MAT-02214	BMW-I.121	a) Supplying & fixing SINGLE BOWL stainless steel sink size 24"x18"x8 "(609.6 x 457.2 x 203.2mm) 1 mm thick with accessories	Each	5655	
716	LAB-00314	BMW-I.122	b) - do - labour charges only	Each	556	
717	MAT-02215	BMW-I.123	a) Supplying & fixing stainless steel sink size 20" x18" x 8 "(508x457.2x203.2mm) 1 mm thick with accessories	Each	5142	
718	MAT-02216	BMW-I.124	b) - do - labour charges only	Each	509	
719	MAT-02217	BMW-I.125	Supplying & fixing 4 " x 24 " (101.6x609.6mm) white glazed porcelain channel fixed in brick masonry white cement pointing.	Each	522	
720	MAT-02218	BMW-I.126	Supply & Fixing of steel surgical long elbow action handle 12.7 mm dia bib cock Indian make heavy type including all materials	Each	946	
721	MAT-02219	BMW-I.127	Supply & fixing 2 1/2" (63.5mm) dia Sluice valve ISI mark with 2 Nos. flanges, 8 nos, 3/4" dia nuts & bolts and all necessary washers and packing materials etc. complete	Each	5180	
722	MAT-02220	BMW-I.128	Supply & fixing porcelain P' trap	Each	223	
723	MAT-02221	BMW-I.129	Supplying & fixing oval shape basin white (520x410mm)parry or equivalent	Each	2371	
724	MAT-02222	BMW-I.130	Supply & fixing RCC cover 22" dia with nominal reinforcement 3 " thick and hooks for lifting	Each	701	
725	MAT-02223	BMW-I.131	Supply & fixing cp spl. Grating with frame and cover of 1st quality	Each	60	
726	MAT-02224	BMW-I.132	Supply & fixing towel rod (CP) of 24" long and 3/4 " dia	Each	378	
727	MAT-02225	BMW-I.133	Supply & fixing of LLC handle set 1stquality	Each	75	
728	MAT-02226	BMW-I.134	Mechanical Cleaning of water sumps with pumps & UV disinfecting	1000 Lit	52	
729	MAT-02227	BMW-I.135	Supply & fixing 4" dia CP thimble pipe: 150 mm long	Each	395	
730	MAT-02228	BMW-I.136	Supply & fixing 4" dia CP thimble pipe:220 mm long	Each	590	

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
731	MAT-02229	BMW-I.137	Supply & fixing 4" dia CP thimble pipe: 300 mm long	Each	787
732	MAT-02230	BMW-I.138	Supply & fixing CP long bend	Each	333
733	MAT-02231	BMW-I.139	Supply & fixing CP short bend	Each	167
734	MAT-02232	BMW-I.140	Supplying & fixing 15 mm bib tap with flange Chrome plated Jaquar make queen series	Each	1644
735	MAT-02233	BMW-I.141	Supply & fixing bib cock cum health faucet with 1 m long flexible tube and wall hook of Jaquar make queen series with 7 years warranty Chrome plated	Each	4166
736	MAT-02234	BMW-I.142	Supply & fixing bib cock cum health faucet with 1 m long flexible tube and wall hook of Jaquar make queen series with 7 years warranty: Ivory gold	Each	7006
737	MAT-02235	BMW-I.143	Supply & fixing pillar cock Jaquar make Queen series with 7 years warranty: Chrome plated	Each	1727
738	MAT-02236	BMW-I.144	Supply & fixing pillar cock Jaquar make Queen series with 7 years warranty: Ivory gold	Each	2948
739	MAT-02237	BMW-I.145	Supply & fixing Angular stop cocks with wall flange Jaquar make Queen series with 7 years warranty: Chrome plated	Each	1704
740	MAT-02238	BMW-I.146	Supply & fixing Angular stop cocks with wall flange Jaquar make Queen series with 7 years warranty: Ivory gold	Each	3300
741	MAT-02239	BMW-I.147	Supply & fixing Waste coupling 32 mm size full thread with 80 mm height Jaquar make with 7 years warranty: Chrome plated	Each	383
742	MAT-02240	BMW-I.148	Supply & fixing of Bottle trap Jaquar make with 7 years warranty: Chrome plated	Each	1629
743	MAT-02241	BMW-I.149	Supply & fixing of Bottle trap Jaquar make with 7 years warranty: Ivory gold	Each	2754
744	MAT-02242	BMW-I.150	Supply & Fixing copper pipe 450 mm long with nuts & washers Jaquar make with 7 years warranty: Chrome plated	Each	400
745	MAT-02243	BMW-I.151	Supply & Fixing copper pipe 450 mm long with nuts & washers Jaquar make with 7 years warranty: Ivory gold	Each	776
746	MAT-02244	BMW-I.152	Supply and fixing wall mirror with provision for over head shower and 115 mm long bend pipe with wall flange Jaquar make queen series with 7 years warranty: Chrome plated	Each	5265
747	MAT-02245	BMW-I.153	Supply and fixing wall mirror with provision for over head shower and 115 mm long bend pipe with wall flange Jaquar make queen series with 7 years warranty: Ivory gold	Each	8282
748	MAT-02246	BMW-I.154	Supply & fixing overhead shower rose with revolving joint and 150 mm long swivel shower arm Jaquar make queen series. with 7 years warranty: Chrome plated	Each	2443
749	MAT-02247	BMW-I.155	Supply & fixing overhead shower rose with revolving joint and 150 mm long swivel shower arm Jaquar make queen series. with 7 years warranty: Ivory Gold	Each	3579
750	MAT-02248	BMW-I.156	Supply and Fixing Wall Mixer with Telephonic shower arrangement with crutch and flexible pipe Jaquar series Ivory gold colour for bath tub. with 7 years warranty	Each	13953
751	MAT-02249	BMW-I.157	Supply & fixing Bath tub overflow set complete with over	Each	1699

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
			flow cap, 450 mm Ball chain with rubber plug & union bend with brass nut Jaquar make, Ivory gold colour. with 7 years warranty		
752	MAT-02250	BMW-I.158	Supply & fixing sink cock with regular swinging spout with wall flange chromeplated Jaquar make Queen series with 7 years warranty	Each	2441
753	MAT-02251	BMW-I.159	Supply & fixingsoap dish Jaquar make queen series: with 7 years warranty:Chrome plated	Each	1602
754	MAT-02252	BMW-I.160	Supply & fixingsoap dish Jaquar make queen series: with 7 years warranty: Ivory Gold	Each	2351
755	MAT-02253	BMW-I.161	Supply & fixing of toilet paper holder Jaquar make Queen series. with 7 years warranty: Chrome plated	Each	1291
756	MAT-02254	BMW-I.162	Supply & fixing of toilet paper holder Jaquar make Queen series. with 7 years warranty: Ivory Gold	Each	2272
757	MAT-02255	BMW-I.163	Supply & Fixing of Towel ring Jaquar make Queen series with 7 years warranty: Chrome plated	Each	1214
758	MAT-02256	BMW-I.164	Supply & Fixing of Towel ring Jaquar make Queen series with 7 years warranty: Ivory Gold	Each	1982
759	MAT-02257	BMW-I.165	Supply & Fixingof towel coat hook Jaquar make Queen series with 7 years warranty:Chrome plated	Each	902
760	MAT-02258	BMW-I.166	Supply & Fixingof towel coat hook Jaquar make Queen series with 7 years warranty:Ivory Gold	Each	1867
761	MAT-02259	BMW-I.167	Supply & Fixing of Towel rod 24 " Jaquar make Queen series Ivory gold colour with 7 years warranty	Each	3097
762	MAT-02260	BMW-I.168	Supply & Fixing of Tumbler holder Jaquar make Queen series, Ivory gold colour with 7 years warranty	Each	2170
763	MAT-02261	BMW-I.169	Supply & fixing of Glass shelf 22" Jaquar make Queen series, Ivory gold colour with 7 years warranty	Each	4232
764	MAT-02262	BMW-I.170	Supply & Fixing of Bibcock cum Health Faucet with 1m long tube and wall hook of Jaquar Continental series, Chrome Finish with 7 years warranty	Each	3070
765	MAT-02263	BMW-I.171	Supply & Fixing of Bibcock Jaquar Continental series, Chrome Finish with 7 years warranty	Each	902
766	MAT-02264	BMW-I.172	Supply & Fixing of Pillar cock Jaquar Continental series, Chrome Finish with 7 years warranty	Each	1121
767	MAT-02265	BMW-I.173	Supply & Fixing of Angular stopcock with wall flange Jaquar Continental series, Chrome finish with 7 years warranty	Each	834
768	MAT-02266	BMW-I.174	Supply fixing of Waste coupling Jaquar make, Chrome finish with 7 years warranty	Each	363
769	MAT-02267	BMW-I.175	Supply & Fixing of Bottle Trap Jaquar make, Chrome finish with 7 years warranty	Each	1629
770	MAT-02268	BMW-I.176	Supply & Fixing of copper pipe 450mm long with nuts & washers Jaquar make, Chrome Finish with 7 years warranty	Each	363
771	MAT-02269	BMW-I.177	Supply & Fixing of Wall Mixer with provision for overhead shower and 115mm long bend pipe with wall flange Jaquar make Continental series, Chrome finish with 7 years warranty	Each	3943

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
772	MAT-02270	BMW-I.178	Supply & Fixing of Exclusive overhead shower with 190mm long light body shower arm Jaquar make Continental series, Chrome finish with 7 years warranty	Each	1684
773	MAT-02271	BMW-I.179	Supply & Fixing wall mixer with telephonic shower arrangement with crutch and telephone shower with flexible tube Jaquar make Continental series Chrome colour for bath tub with 7 years warranty	Each	5505
774	MAT-02272	BMW-I.180	Supply & Fixing bath tub over flow set complete with over flow cap,450mm ball chain with rubber plug 7 Union bend with brass nuts Jaquar make, Chrome colour with 7 years warranty	Each	1285
775	MAT-02273	BMW-I.181	Supply & Fixing Sink cock with regular swinging spout with flange chrome plated Jaquar make Continental series with 7 years warranty	Each	1587
776	MAT-02274	BMW-I.182	Supply & Fixing soap dish Jaquar make Continental series, Chrome Finish with 7 years warranty	Each	1249
777	MAT-02275	BMW-I.183	Supply & Fixing of Toilet paper holder Jaquar make Continental series, Chrome finish with 7 years warranty	Each	834
778	MAT-02276	BMW-I.184	Supply & Fixing of Towel Ring Jaquar make Continental series, Chrome finish with 7 years warranty	Each	960
779	MAT-02277	BMW-I.185	Supply & Fixing Double coat hook Jaquar make Continental series, Chrome finish with 7 years warranty	Each	716
780	MAT-02278	BMW-I.186	Supply & Fixing of towel rail 24" Jaquar make Continental series, Chrome finish with 7 years warranty	Each	1549
781	MAT-02279	BMW-I.187	Supply & Fixing of Tumblerholder Jaquar make Continental series, Chrome finish with 7 years warranty	Each	1044
782	MAT-02280	BMW-I.188	Supply & Fixing of Glass shelf 22" Jaquar make Continental series, Chrome finish with 7 years warranty	Each	2054
783	MAT-02281	BMW-I.189	Supply & Fixing of Bibcock cum Health Faucet with 1m long tube and wall hook of Jaquar Florentine(Quarter turn) series, Chrome Finish with 7 years warranty	Each	3673
784	MAT-02282	BMW-I.190	Supply & Fixing of Bibcock Jaquar Florentine (Quarter turn)series, Chrome Finish with 7 years warranty	Each	1239
785	MAT-02283	BMW-I.191	Supply & Fixing of Pillar cock Jaquar Florentine(Quarter turn) series, Chrome Finish with 7 years warranty	Each	1239
786	MAT-02284	BMW-I.192	Supply & Fixing of Angular stopcock with wall flange Jaquar Florentine(Quarter turn)series, Chrome finish with 7 years warranty	Each	1219
787	MAT-02285	BMW-I.193	Supply & Fixing of Bottle Trap Jaquar make, Chrome finish with 7 years warranty	Each	1629
788	MAT-02286	BMW-I.194	Supply & Fixing of Wall Mixer with provision for overhead shower and 115mm long bend pipe with wall flange Jaquar make Florentine(Quarter turn) series, Chrome finish with 7 years warranty	Each	4758
789	MAT-02287	BMW-I.195	Supply & Fixing wall mixer with telephonic shower arrangement with crutch and telephone shower with flexible tube Jaquar make Florentine(Quarter turn) series Chrome colour for bath tub with 7 years warranty	Each	7170

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
790	MAT-02288	BMW-I.196	Supply & Fixing Sink cock with regular swinging spout with flange chrome plated Jaquar make Florentine(Quarter turn) series with 7 years warranty	Each	1900
791	MAT-02289	BMW-I.197	Supply & Fixing of Rose shower with revolving ball joint & 115mm long shower arm with 7 years warranty	Each	2019
792	MAT-02290	BMW-I.198	Supply & Fixing of Jaquar make chrome plated Metro pole flush valveconcealed type with cover plate 40mm size with 7 years warranty	Each	3536
793	MAT-02291	BMW-I.199	Supply & Fixing of Jaquar make Sensotronic sensor faucet for wash basin, Chrome plated with 7 years warranty	Each	13887
794	MAT-02292	BMW-I.200	Supply & fixing of Jaquar make Sensotronic concealed type flushing valve for urinal complete set with installation box with control cock, Chrome plated with 7 years warranty	Each	13887
795	MAT-02293	BMW-I.201	Supply & fixing of Jaquar make Auto closing system pillar cock for wash basin, Chrome plated with 7 years warranty	Each	2301
796	MAT-02294	BMW-I.202	Supply& Fixing of Jaquar make Auto Closing system Bibcock, Chrome plated with 7 years warranty	Each	2413
797	MAT-02295	BMW-I.203	ITEM DELETED		
798	MAT-02296	BMW-I.204	ITEM DELETED		
799	MAT-02297	BMW-I.205	ITEM DELETED		
800	MAT-02298	BMW-I.206	ITEM DELETED		
801	MAT-02299	BMW-I.207	ITEM DELETED		
802	MAT-02300	BMW-I.208	ITEM DELETED		
803	MAT-02301	BMW-I.209	ITEM DELETED		
804	MAT-02302	BMW-I.210	ITEM DELETED		
805	MAT-02303	BMW-I.211	ITEM DELETED		
806	MAT-02304	BMW-I.212	ITEM DELETED		
807	MAT-02305	BMW-I.213	ITEM DELETED		

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
808	MAT-02306	BMW-I.214	ITEM DELETED		
809	MAT-02307	BMW-I.215	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete including excavating trenches up to 1.0 M deep laying pipes, fixing in position, testing, refilling excavated earth and commissioning etc 16 mm OD pipe	1 RM	175
810	MAT-02308	BMW-I.216	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete including excavating trenches up to 1.0 M deep laying pipes, fixing in position, testing, refilling excavated earth and commissioning etc 20 mm OD pipe	1 RM	206
811	MAT-02309	BMW-I.217	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete including excavating trenches up to 1.0 M deep laying pipes, fixing in position, testing, refilling excavated earth and commissioning etc 25mm OD pipe	1 RM	251
812	MAT-02310	BMW-I.218	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete including excavating trenches up to 1.0 M deep laying pipes, fixing in position, testing, refilling excavated earth and commissioning etc 32 mm OD pipe	1 RM	324
813	MAT-02311	BMW-I.219	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete including excavating trenches up to 1.0 M deep laying pipes, fixing in position, testing, refilling excavated earth and commissioning etc 40 mm OD pipe	1 RM	415

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
			Supply and Fixing of Premium make CPVC Pipes and Fittings to meet the requirement of ASTM-D 2846 and are produced in CTS (Copper Tube Sizes 1/2" ton 2" SDR 11 and SDR 13.5 pipes are made from identical CPVC compounds having the same physical Properties for Hot and Cold Water (IS 15778:2007)		
814	MAT-02312	BMW-I.220	15.90mm OD Pipe - SDR 13.5	1 RM	59
815	MAT-02313	BMW-I.221	22.20mm OD Pipe - SDR 13.5	1 RM	94
816	MAT-02314	BMW-I.222	28.60mm OD Pipe - SDR 13.5	1 RM	136
817	MAT-02315	BMW-I.223	34.90mm OD Pipe - SDR 13.5	1 RM	214
818	MAT-02316	BMW-I.224	41.30mm OD Pipe - SDR 13.5	1 RM	295
819	MAT-02317	BMW-I.225	54mm OD Pipe - SDR 13.5	1 RM	485
820	MAT-02318	BMW-I.226	15.90mm OD Pipe - SDR 11	1 RM	68
821	MAT-02319	BMW-I.227	22.20mm OD Pipe - SDR 11	1 RM	103
822	MAT-02320	BMW-I.228	28.60mm OD Pipe - SDR 11	1 RM	160
823	MAT-02321	BMW-I.229	34.90mm OD Pipe - SDR 11	1 RM	254
824	MAT-02322	BMW-I.230	41.30mm OD Pipe - SDR 11	1 RM	348
825	MAT-02323	BMW-I.231	54mm OD Pipe - SDR 11	1 RM	535
826	MAT-02324	BMW-I.232	Supply of 20mm x 1.9mm PN 10/PPR Pipe conforming to DIN Standards 8077/8078 conforming to IS15801	1 RM	45
827	MAT-02325	BMW-I.233	Supply of 25mm x 2.3mm PN 10/PPR Pipe conforming to DIN Standards 8077/8078 conforming to IS15801	1 RM	67
828	MAT-02326	BMW-I.234	Supply of 32mm x 2.9mm PN 10/PPR Pipe conforming to DIN Standards 8077/8079 conforming to IS15801	1 RM	106
829	MAT-02327	BMW-I.235	Supply of 40mm x 3.7mm PN 10/PPR Pipe conforming to DIN Standards 8077/8079 conforming to IS15801	1 RM	166
830	MAT-02328	BMW-I.236	Supply of 50mm x 4.6mm PN 10/PPR Pipe conforming to DIN Standards 8077/8080 conforming to IS15801	1 RM	297
831	MAT-02329	BMW-I.237	Supply of 63mm x 5.8mm PN 10/PPR Pipe conforming to DIN Standards 8077/8081 conforming to IS15801	1 RM	466
832	MAT-02330	BMW-I.238	Supply of 75mm x 6.8mm PN 10/PPR Pipe conforming to DIN Standards 8077/8082 conforming to IS15801	1 RM	649
833	MAT-02331	BMW-I.239	Supply of 90mm x 8.2mm PN 10/PPR Pipe conforming to DIN Standards 8077/8083 conforming to IS15801	1 RM	890
834	MAT-02332	BMW-I.240	Supply of 110mm x 10mm PN 10/PPR Pipe conforming to DIN Standards 8077/8084 conforming to IS15801	1 RM	1319
835	MAT-02333	BMW-I.241	Supply of 20mm x 2.8mm PN 16/PPR Pipe conforming to DIN Standards 8077/8078 conforming to IS15801	1 RM	61
836	MAT-02334	BMW-I.242	Supply of 25mm x 3.5mm PN 16/PPR Pipe conforming to DIN Standards 8077/8078 conforming to IS15801	1 RM	93

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
837	MAT-02335	BMW-I.243	Supply of 32mm x 4.4mm PN 16/PPR Pipe conforming to DIN Standards 8077/8079 conforming to IS15801	1 RM	151
838	MAT-02336	BMW-I.244	Supply of 40mm x 5.5mm PN 16/PPR Pipe conforming to DIN Standards 8077/8079 conforming to IS15801	1 RM	231
839	MAT-02337	BMW-I.245	Supply of 50mm x 6.9mm PN 16/PPR Pipe conforming to DIN Standards 8077/8080 conforming to IS15801	1 RM	415
840	MAT-02338	BMW-I.246	Supply of 63mm x 8.6mm PN 16/PPR Pipe conforming to DIN Standards 8077/8081 conforming to IS15801	1 RM	654
841	MAT-02339	BMW-I.247	Supply of 75mm x 10.3mm PN 16/PPR Pipe conforming to DIN Standards 8077/8082 conforming to IS15801	1 RM	924
842	MAT-02340	BMW-I.248	Supply of 90mm x 12.3mm PN 16/PPR Pipe conforming to DIN Standards 8077/8083 conforming to IS15801	1 RM	1317
843	MAT-02341	BMW-I.249	Supply of 110mm x 15.1mm PN 16/PPR Pipe conforming to DIN Standards 8077/8084 conforming to IS15801	1 RM	1973
844	MAT-02342	BMW-I.250	Supply of 20mm x 3.4mm PN 20/PPR Pipe conforming to DIN Standards 8077/8078 conforming to IS15801	1 RM	71
845	MAT-02343	BMW-I.251	Supply of 25mm x 4.2mm PN 20/PPR Pipe conforming to DIN Standards 8077/8078 conforming to IS15801	1 RM	109
846	MAT-02344	BMW-I.252	Supply of 32mm x 5.4mm PN 20/PPR Pipe conforming to DIN Standards 8077/8079 conforming to IS15801	1 RM	175
847	MAT-02345	BMW-I.253	Supply of 40mm x 6.7mm PN 20/PPR Pipe conforming to DIN Standards 8077/8079 conforming to IS15801	1 RM	270
848	MAT-02346	BMW-I.254	Supply of 50mm x 8.3mm PN 20/PPR Pipe conforming to DIN Standards 8077/8080 conforming to IS15801	1 RM	480
849	MAT-02347	BMW-I.255	Supply of 63mm x 10.5mm PN 20/PPR Pipe conforming to DIN Standards 8077/8081 conforming to IS15801	1 RM	757
850	MAT-02348	BMW-I.256	Supply of 75mm x 12.5mm PN 20/PPR Pipe conforming to DIN Standards 8077/8082 conforming to IS15801	1 RM	1074
851	MAT-02349	BMW-I.257	Supply of 90mm x 15mm PN 20/PPR Pipe conforming to DIN Standards 8077/8083	1 RM	1460
852	MAT-02350	BMW-I.258	Supply of 110mm x 18.3mm PN 20/PPR Pipe conforming to DIN Standards 8077/8084 conforming to IS15801	1 RM	2298
853	MAT-02351	BMW-I.259	Supply of 20mm PPR Socket conforming to DIN Standards 8077/8084	1 RM	9
854	MAT-02352	BMW-I.260	Supply of 25mm PPR Socket conforming to DIN Standards 8077/8085	1 RM	15
855	MAT-02353	BMW-I.261	Supply of 32mm PPR Socket conforming to DIN Standards 8077/8086	1 RM	20
856	MAT-02354	BMW-I.262	Supply of 40mm PPR Socket conforming to DIN Standards 8077/8087	1 RM	33
857	MAT-02355	BMW-I.263	Supply of 50mm PPR Socket conforming to DIN Standards 8077/8088	1 RM	64
858	MAT-02356	BMW-I.264	Supply of 63mm PPR Socket conforming to DIN Standards 8077/8089	1 RM	124
859	MAT-02357	BMW-I.265	Supply of 75mm PPR Socket conforming to DIN Standards 8077/8090	1 RM	189

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
860	MAT-02358	BMW-I.266	Supply of 90mm PPR Socket conforming to DIN Standards 8077/8091	1 RM	361
861	MAT-02359	BMW-I.267	Supply of 110mm PPR Socket conforming to DIN Standards 8077/8092	1 RM	644
862	MAT-02360	BMW-I.268	Supply of 32mm PPR Core Flange conforming to DIN Standards 8077/8086	Each	39
863	MAT-02361	BMW-I.269	Supply of 40mm PPR Core Flange conforming to DIN Standards 8077/8087	Each	62
864	MAT-02362	BMW-I.270	Supply of 50mm PPR Core Flange conforming to DIN Standards 8077/8088	Each	81
865	MAT-02363	BMW-I.271	Supply of 63mm PPR Core Flange conforming to DIN Standards 8077/8089	Each	128
866	MAT-02364	BMW-I.272	Supply of 75mm PPR Core Flange conforming to DIN Standards 8077/8090	Each	148
867	MAT-02365	BMW-I.273	Supply of 90mm PPR Core Flange conforming to DIN Standards 8077/8091	Each	380
868	MAT-02366	BMW-I.274	Supply of 110mm PPR Core Flange conforming to DIN Standards 8077/8092	Each	491
869	MAT-02367	BMW-I.275	Supply of 20mm PPR Elbow conforming to DIN Standards 8077/8084	Each	17
870	MAT-02368	BMW-I.276	Supply of 25mm PPR Elbow conforming to DIN Standards 8077/8085	Each	21
871	MAT-02369	BMW-I.277	Supply of 32mm PPR Elbow conforming to DIN Standards 8077/8086	Each	39
872	MAT-02370	BMW-I.278	Supply of 40mm PPR Elbow conforming to DIN Standards 8077/8087	Each	69
873	MAT-02371	BMW-I.279	Supply of 50mm PPR Elbow conforming to DIN Standards 8077/8088	Each	130
874	MAT-02372	BMW-I.280	Supply of 63mm PPR Elbow conforming to DIN Standards 8077/8089	Each	253
875	MAT-02373	BMW-I.281	Supply of 75mm PPR Elbow conforming to DIN Standards 8077/8090	Each	410
876	MAT-02374	BMW-I.282	Supply of 90mm PPR Elbow conforming to DIN Standards 8077/8091	Each	762
877	MAT-02375	BMW-I.283	Supply of 110mm PPR Elbow conforming to DIN Standards 8077/8092	Each	1414
878	MAT-02376	BMW-I.284	Supply of 20mm PPR Tee conforming to DIN Standards 8077/8084	Each	16
879	MAT-02377	BMW-I.285	Supply of 25mm PPR Tee conforming to DIN Standards 8077/8085	Each	26
880	MAT-02378	BMW-I.286	Supply of 32mm PPR Tee conforming to DIN Standards 8077/8086	Each	47
881	MAT-02379	BMW-I.287	Supply of 40mm PPR Tee conforming to DIN Standards 8077/8087	Each	83
882	MAT-02380	BMW-I.288	Supply of 50mm PPR Tee conforming to DIN Standards 8077/8088	Each	147

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
883	MAT-02381	BMW-I.289	Supply of 63mm PPR Tee conforming to DIN Standards 8077/8089	Each	300
884	MAT-02382	BMW-I.290	Supply of 75mm PPR Tee conforming to DIN Standards 8077/8090	Each	588
885	MAT-02383	BMW-I.291	Supply of 90mm PPR Tee conforming to DIN Standards 8077/8091	Each	853
886	MAT-02384	BMW-I.292	Supply of 110mm PPR Tee conforming to DIN Standards 8077/8092	Each	1477
887	MAT-02385	BMW-I.293	Supply of 20mm PPR End Cap conforming to DIN Standards 8077/8084	Each	6
888	MAT-02386	BMW-I.294	Supply of 25mm PPR End Cap conforming to DIN Standards 8077/8085	Each	9
889	MAT-02387	BMW-I.295	Supply of 32mm PPR End Cap conforming to DIN Standards 8077/8086	Each	20
890	MAT-02388	BMW-I.296	Supply of 40mm PPR End Cap conforming to DIN Standards 8077/8087	Each	33
891	MAT-02389	BMW-I.297	Supply of 50mm PPR End Cap conforming to DIN Standards 8077/8088	Each	58
892	MAT-02390	BMW-I.298	Supply of 63mm PPR End Cap conforming to DIN Standards 8077/8089	Each	124
893	MAT-02391	BMW-I.299	Supply of 75mm PPR End Cap conforming to DIN Standards 8077/8090	Each	208
894	MAT-02392	BMW-I.300	Supply of 90mm PPR End Cap conforming to DIN Standards 8077/8091	Each	331
895	MAT-02393	BMW-I.301	Supply of 110mm PPR End Cap conforming to DIN Standards 8077/8092	Each	654
896	MAT-02394	BMW-I.302	Supply of 25mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	12
897	MAT-02395	BMW-I.303	Supply of 32mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	21
898	MAT-02396	BMW-I.304	Supply of 32mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	20
899	MAT-02397	BMW-I.305	Supply of 40mm x 32mm PPR Reducer conforming to DIN Standards 8077/8092	Each	34
900	MAT-02398	BMW-I.306	Supply of 40mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	33
901	MAT-02399	BMW-I.307	Supply of 40mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	33
902	MAT-02400	BMW-I.308	Supply of 50mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	50
903	MAT-02401	BMW-I.309	Supply of 50mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	51
904	MAT-02402	BMW-I.310	Supply of 50mm x 32mm PPR Reducer conforming to DIN Standards 8077/8092	Each	51
905	MAT-02403	BMW-I.311	Supply of 50mm x 40mm PPR Reducer conforming to DIN Standards 8077/8092	Each	53

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
906	MAT-02404	BMW-I.312	Supply of 63mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	114
907	MAT-02405	BMW-I.313	Supply of 63mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	114
908	MAT-02406	BMW-I.314	Supply of 63mm x 32mm PPR Reducer conforming to DIN Standards 8077/8092	Each	116
909	MAT-02407	BMW-I.315	Supply of 63mm x 40mm PPR Reducer conforming to DIN Standards 8077/8092	Each	117
910	MAT-02408	BMW-I.316	Supply of 63mm x 50mm PPR Reducer conforming to DIN Standards 8077/8092	Each	118
911	MAT-02409	BMW-I.317	Supply of 75mm x 40mm PPR Reducer conforming to DIN Standards 8077/8092	Each	170
912	MAT-02410	BMW-I.318	Supply of 75mm x 50mm PPR Reducer conforming to DIN Standards 8077/8092	Each	171
913	MAT-02411	BMW-I.319	Supply of 75mm x 63mm PPR Reducer conforming to DIN Standards 8077/8092	Each	217
914	MAT-02412	BMW-I.320	Supply of 90mm x 63mm PPR Reducer conforming to DIN Standards 8077/8092	Each	415
915	MAT-02413	BMW-I.321	Supply of 90mm x 75mm PPR Reducer conforming to DIN Standards 8077/8092	Each	440
916	MAT-02414	BMW-I.322	Supply of 110mm x 63mm PPR Reducer conforming to DIN Standards 8077/8092	Each	554
917	MAT-02415	BMW-I.323	Supply of 110mm x 75mm PPR Reducer conforming to DIN Standards 8077/8092	Each	646
918	MAT-02416	BMW-I.324	Supply of 110mm x 90mm PPR Reducer conforming to DIN Standards 8077/8092	Each	695
919	MAT-02417	BMW-I.325	Supply of 25mm x 20mm x 25mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	33
920	MAT-02418	BMW-I.326	Supply of 32mm x 25mm x 32mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	57
921	MAT-02419	BMW-I.327	Supply of 32mm x 20mm x 32mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	57
922	MAT-02420	BMW-I.328	Supply of 40mm x 20mm x 40mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	93
923	MAT-02421	BMW-I.329	Supply of 40mm x 25mm x 40mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	95
924	MAT-02422	BMW-I.330	Supply of 40mm x 32mm x 40mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	98
925	MAT-02423	BMW-I.331	Supply of 50mm x 20mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	135
926	MAT-02424	BMW-I.332	Supply of 50mm x 25mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	137
927	MAT-02425	BMW-I.333	Supply of 50mm x 32mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	141
928	MAT-02426	BMW-I.334	Supply of 50mm x 40mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	142

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
929	MAT-02427	BMW-I.335	Supply of 63mm x 20mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	391
930	MAT-02428	BMW-I.336	Supply of 63mm x 25mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	393
931	MAT-02429	BMW-I.337	Supply of 63mm x 32mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	399
932	MAT-02430	BMW-I.338	Supply of 63mm x 40mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	405
933	MAT-02431	BMW-I.339	Supply of 63mm x 50mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	412
934	MAT-02432	BMW-I.340	Supply of 75mm x 50mm x 75mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	552
935	MAT-02433	BMW-I.341	Supply of 75mm x 63mm x 75mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	562
936	MAT-02434	BMW-I.342	Supply of 90mm x 50mm x 90mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	743
937	MAT-02435	BMW-I.343	Supply of 90mm x 63mm x 90mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	791
938	MAT-02436	BMW-I.344	Supply of 110mm x 75mm x 110mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	1348
939	MAT-02437	BMW-I.345	Supply of 110mm x 90mm x 110mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	1402
940	MAT-02438	BMW-I.346	Supply of 20mm x ½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	104
941	MAT-02439	BMW-I.347	Supply of 25mm x ½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	106
942	MAT-02440	BMW-I.348	Supply of 25mm x ¾" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	186
943	MAT-02441	BMW-I.349	Supply of 32mm x ½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	190
944	MAT-02442	BMW-I.350	Supply of 32mm x ¾" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	195
945	MAT-02443	BMW-I.351	Supply of 32mm x 1" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	302
946	MAT-02444	BMW-I.352	Supply of 40mm x 1¼" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	447
947	MAT-02445	BMW-I.353	Supply of 50mm x 1½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	625
948	MAT-02446	BMW-I.354	Supply of 63mm x 2" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	831
949	MAT-02447	BMW-I.355	Supply of 75mm x 2½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	1602
950	MAT-02448	BMW-I.356	Supply of 20mm x ½" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	161
951	MAT-02449	BMW-I.357	Supply of 25mm x ½" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	166

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
952	MAT-02450	BMW-I.358	Supply of 25mm x 3/4" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	243
953	MAT-02451	BMW-I.359	Supply of 32mm x 3/4" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	253
954	MAT-02452	BMW-I.360	Supply of 32mm x 1" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	470
955	MAT-02453	BMW-I.361	Supply of 40mm x 1 1/4" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	551
956	MAT-02454	BMW-I.362	Supply of 50mm x 1 1/2" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	771
957	MAT-02455	BMW-I.363	Supply of 63mm x 2" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	1185
958	MAT-02456	BMW-I.364	Supply of 75mm x 2 1/2" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	1896
959	MAT-02457	BMW-I.365	Supply of 20mm x 1/2" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	111
960	MAT-02458	BMW-I.366	Supply of 25mm x 1/2" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	116
961	MAT-02459	BMW-I.367	Supply of 25mm x 3/4" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	179
962	MAT-02460	BMW-I.368	Supply of 32mm x 1/2" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	171
963	MAT-02461	BMW-I.369	Supply of 32mm x 3/4" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	200
964	MAT-02462	BMW-I.370	Supply of 32mm x 1" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	334
965	MAT-02463	BMW-I.371	Supply of 20mm x 1/2" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	166
966	MAT-02464	BMW-I.372	Supply of 25mm x 1/2" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	183
967	MAT-02465	BMW-I.373	Supply of 25mm x 3/4" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	242
968	MAT-02466	BMW-I.374	Supply of 32mm x 1/2" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	231
969	MAT-02467	BMW-I.375	Supply of 32mm x 1" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	500
970	MAT-02468	BMW-I.376	Supply of 20mm x 1/2" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	107
971	MAT-02469	BMW-I.377	Supply of 25mm x 1/2" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	118
972	MAT-02470	BMW-I.378	Supply of 25mm x 3/4" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	195
973	MAT-02471	BMW-I.379	Supply of 32mm x 1/2" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	207
974	MAT-02472	BMW-I.380	Supply of 32mm x 3/4" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	231

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
975	MAT-02473	BMW-I.381	Supply of 32mm x 1" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	326
976	MAT-02474	BMW-I.382	Supply of 20mm x 1/2" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	167
977	MAT-02475	BMW-I.383	Supply of 25mm x 1/2" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	179
978	MAT-02476	BMW-I.384	Supply of 25mm x 3/4" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	255
979	MAT-02477	BMW-I.385	Supply of 32mm x 1/2" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	263
980	MAT-02478	BMW-I.386	Supply of 32mm x 3/4" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	276
981	MAT-02479	BMW-I.387	Supply of 32mm x 1" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	510
982	MAT-02480	BMW-I.388	Supply of 20mm x 1/2" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	431
983	MAT-02481	BMW-I.389	Supply of 25mm x 3/4" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	646
984	MAT-02482	BMW-I.390	Supply of 32mm x 1" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	862
985	MAT-02483	BMW-I.391	Supply of 40mm x 1 1/4" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	1208
986	MAT-02484	BMW-I.392	Supply of 50mm x 1 1/2" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	1940
987	MAT-02485	BMW-I.393	Supply of 63mm x 2" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	3082
988	MAT-02486	BMW-I.394	Supply of 20mm x 1/2" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	494
989	MAT-02487	BMW-I.395	Supply of 25mm x 3/4" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	656
990	MAT-02488	BMW-I.396	Supply of 32mm x 1" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	862
991	MAT-02489	BMW-I.397	Supply of 40mm x 1 1/4" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	1076
992	MAT-02490	BMW-I.398	Supply of 50mm x 1 1/2" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	2048
993	MAT-02491	BMW-I.399	Supply of 63mm x 2" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	3449
994	MAT-02492	BMW-I.400	Supply of 20mm PPR Union conforming to DIN Standards 8077/8092	Each	93
995	MAT-02493	BMW-I.401	Supply of 25mm PPR Union conforming to DIN Standards 8077/8092	Each	110
996	MAT-02494	BMW-I.402	Supply of 32mm PPR Union conforming to DIN Standards 8077/8092	Each	182
997	MAT-02495	BMW-I.403	Supply of 20mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	171

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for 2022-23 (Rs.)
998	MAT-02496	BMW-I.404	Supply of 25mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	215
999	MAT-02497	BMW-I.405	Supply of 32mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	227
1000	MAT-02498	BMW-I.406	Supply of 40mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	463
1001	MAT-02499	BMW-I.407	Supply of 50mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	540
1002	MAT-02500	BMW-I.408	Supply of 63mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	874
1003	MAT-02501	BMW-I.409	Supply of 75mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	1437
1004	MAT-02502	BMW-I.410	Supply of 90mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	2054
1005	MAT-02503	BMW-I.411	Supply of 20mm PPR Clamp conforming to DIN Standards 8077/8092	Each	9
1006	MAT-02504	BMW-I.412	Supply of 25mm PPR Clamp conforming to DIN Standards 8077/8092	Each	12
1007	MAT-02505	BMW-I.413	Supply of 32mm PPR Clamp conforming to DIN Standards 8077/8092	Each	15
1008	MAT-02506	BMW-I.414	Supply of 40mm PPR Clamp conforming to DIN Standards 8077/8092	Each	16
1009	LAB-00315	BMW-I.415	Labour charges for laying, joining, welding, fixing and commissioning the PPR pipes including all specials such as couplers/ bends/ tees etc including fixing necessary fittings like bends, plugs, couplers, junctions, tees, etc with welding the joint as per standard practice - up to 40 mm dia	1 RM	33
1010	LAB-00316	BMW-I.416	Labour charges for laying, joining, welding, fixing and commissioning the PPR pipes including all specials such as couplers/ bends/ tees etc including fixing necessary fittings like bends, plugs, couplers, junctions, tees, etc with welding the joint as per standard practice - above 40 mm dia	1 RM	56
			Supply and fixing of UPVC Pipes and Fittings SCH-40 Grade to meet the requirement of ASTM-D 2846 for hot and cold water (IS 15778:2007) including cost and conveyance of all materials to site, labor charges for fixing, overheads & contractors profit complete for finished item of work at all floor levels.		
		BMW-I.417	65 mm OD Pipe	1 RM	807
		BMW-I.418	80 mm OD Pipe	1 RM	966
		BMW-I.419	100 mm OD Pipe	1 RM	1051

		BMW-I.420	125 mm OD Pipe	1 RM	1236
		BMW-I.421	150 mm OD Pipe	1 RM	1420

List of Recommended brands/Manufacturers for guidance of field engineers :-

NOTE :

The above list of popular/reputed brands are recommended for guidance. The concerned Engineer shall from time to time ensure their approvals with respect to quality approvals from standard institutions and use in the estimate of the works. The Engineer can exercise his/her discretion in selection while using other than above listed brands on satisfaction of their eligibility with respect to ISI or such standard institutional approvals, durability and record/reputation of that product.

Sl. No	SECTION	NAMES OF THE RECOMMENDED BRAND/ MANUFACTURER/ SUPPLIER
A	SECTION	S.W.G. PIPES & FITTINGS
		(Landing cost - including material VAT/ loading/ cost of conveyance/ unloading & stacking)
		1. SUPPLY & LAYING OF SWG PIPES - Any ISI Brand 2. S.W.G. FITTINGS - Any ISI Brand
D	SECTION	VITREOUS CHINAWARE - SANITARY APPLIANCES
		1. INDIAN WATER CLOSETS - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA/Jaquar / Somany, Watertec, Kerovit by Kajaria, Asianpaints ,Prayag Polymers, UNISPACE, RAK ceramics, , JAL (Jupiter Aqua lines ltd) 2. FLOOR MOUNTED EWC - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA/Jaquar / Somany, Watertec, Kerovit by Kajaria, Asianpaints ,Prayag Polymers, UNISPACE, , JAL (Jupiter Aqua lines ltd), RAK ceramics 3. WALL MOUNTED EWC - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA /Jaquar/ Somany, Watertec, Kerovit by Kajaria, Asianpaints, Prayag Polymers,UNISPACE, RAK ceramics, , JAL (Jupiter Aqua lines ltd) 4. CISTERNS FOR WATER CLOSETS - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA /Jaquar / Somany, Watertec, Kerovit by Kajaria, Asianpaints ,Prayag Polymers, UNISPACE, RAK ceramics, , Jupiter Aqua lines ltd 5. PLASTIC SEATS FOR WATER CLOSETS - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA /Jaquar / Somany, Watertec, Asianpaints, Kerovit by Kajaria,Suki, Prayag Polymers,UNISPACE, RAK ceramics, , JAL (Jupiter Aqua lines ltd) 6. WASH HAND BASINS - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA /Jaquar / Somany, Watertec,Suki, Asianpaints, Kerovit by Kajaria/ DEC Industries PVT LTD, Prayag Polymers,UNISPACE, RAK ceramics, , JAL (Jupiter Aqua lines ltd) 7. URINALS - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA /Jaquar / Somany, Naturesani, Watertec, Suki, Asianpaints, ssKerovit by Kajaria, Prayag Polymers,UNISPACE, RAK ceramics, , JAL (Jupiter Aqua lines ltd)
E	SECTION	CP FITTINGS - TAPS/ FAUCETS & ACCESSORIES
		1. TAPS&FAUCETS - BIB TAPS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware RAK ceramics, , JAL (Jupiter Aqua lines ltd)- PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla / Essco / Somany/Kingston/Prayag Polymer/KUNCHAL (Aluminium Udyog)/M/s Sumo Polyplast Pvt. Ltd (Sumolex), Watertec, Ambani, Suki ,Kerovit by Kajaria, Austro,/ ESS ESS/ BATHSENSE/ ROYALE, RAK ceramics,CERA, , JAL (Jupiter Aqua lines ltd) 2. XTAPS&FAUCETS - PILLAR TAPS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware- RAK ceramics, , JAL (Jupiter Aqua lines ltd)ltd PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla / Essco / Somany/ Kingston/Prayag Polymer/ KUNCHAL (Aluminium Udyog)/ M/s Sumo Polyplast Pvt. Ltd (Sumolex), Watertec, Ambani, Suki, Kerovit by Kajaria, Austro/ ESS ESS/ BATHSENSE/ ROYALE RAK ceramics,CERA, , JAL (Jupiter Aqua lines ltd) 3. XTAPS&FAUCETS - OTHER TAPS & SPOUTS - Seiko/ Senior/ Nice/ Senior/ Nice/CERA/ Hindware RAK ceramics, , JAL (Jupiter Aqua lines ltd)- PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla / Essco

Sl. No	SECTION	NAMES OF THE RECOMMENDED BRAND/ MANUFACTURER/ SUPPLIER
		<p>/Somany/ Kingston/Prayag Polymer/ KUNCHAL (Aluminium Udyog)/ M/s Sumo Polyplast Pvt. Ltd (Sumolex) Watertec, Ambani, Suki, Kerovit by Kajaria, Austro/ ESS ESS / BATHSENSE/ ROYALE RAK ceramics,CERA, , JAL (Jupiter Aqua lines ltd)</p> <p>4. XSTOP & ANGLE VALVES - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - RAK ceramics, , JAL (Jupiter Aqua lines ltd)PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla / Essco / Somany/ Kingston/Prayag Polymer/ KUNCHAL (Aluminium Udyog), Watertec, Ambani, Suki ,Kerovit by Kajaria, Austro/ ESS ESS/ BATHSENSE/ ROYALE, RAK ceramics,CERA, , JAL (Jupiter Aqua lines ltd)</p> <p>5. COMBINATION FAUCETS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - RAK ceramics, , JAL (Jupiter Aqua lines ltd)PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla / Essco / Somany/ Kingston/Prayag Polymer/ KUNCHAL (Aluminium Udyog) Watertec, Ambani, Kerovit by Kajaria, Austro / ESS ESS/ BATHSENSE/ ROYALE, RAK ceramics,CERA, , JAL (Jupiter Aqua lines ltd)</p> <p>6. SHOWERS & FITTINGS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - RAK ceramics, , JAL (Jupiter Aqua lines ltd)PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla / Essco / Somany/ Kingston/Prayag Polymer/ KUNCHAL (Aluminium Udyog), Watertec, Ambani, Suki Kerovit by Kajaria, Austro / ESS ESS/ BATHSENSE/ ROYALE, RAK ceramics,CERA, , JAL (Jupiter Aqua lines ltd)</p> <p>7. MISCELLANEOUS CP FITTINGS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware RAK ceramics, JAL (Jupiter Aqua lines ltd)- PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla / Essco / Somany/ Kingston/Prayag Polymer/ KUNCHAL (Aluminium Udyog), Watertec, Ambani, Suki Kerovit by Kajaria, Austro / ESS ESS/ BATHSENSE/ ROYALE, RAK ceramics,CERA, , JAL (Jupiter Aqua lines ltd)</p>
F	SECTION	G.I. PIPES & FITTINGS
		<ol style="list-style-type: none"> 1. G.I. PIPES - Tata/ JSW/ Oswal/ Zenith, PRECISION pipes & fittings 2. G.I. FITTINGS - HB / Kirti/ R-Brand, PRECISION pipes & fittings 3. BRONZE (COPPER ALLOY) VALVES - Zoloto/ R-Brand
G	SECTION	PVC PIPES & FITTINGS
		<ol style="list-style-type: none"> 1. PVC PIPES - Prince/Sudhakar/Kisan/Supreme/ Astral/ Finolex/ Ajay/ Ashirvad/Birla Aerocon/Trueflow by Hindware/Prayag Polymer, Watertec, Austro, Suki ,Nandi/ APOLLO PIPES LTD / DEC Industries PVT LTD, SENTINI Flo pipes, PRECISION pipes & fittings, AKG Extrusions, Hindpipes /Hindplast , Chem fab alkalis limited, JAL (Jupiter Aqua lines ltd) 2. PVC FITTINGS- Prince/Sudhakar/Kisan/Supreme/ Astral/ Finolex/ Ajay/ Ashirvad/ Birla Aerocon/ Trueflow by Hindware/Prayag Polymer, Watertec, Austro, Suki, Nandi/ APOLLO PIPES LTD / DEC Industries PVT LTD , PRECISION pipes& fittings, Sentini flo pipes and fittings, AKG Extrusions , Hind pipes /Hind Plast, , JAL (Jupiter Aqua lines ltd) 3. PVC PLUMBING ACCESSORIES - Prince/Sudhakar/Kisan/Supreme/ Astral/ Finolex/ Ajay/ Ashirvad/ Birla Aerocon/ Trueflow by Hindware, Watertec, Austro, Suki, Nandi/ APOLLO PIPES LTD , PRECISION pipes & fittings, Sentini flo pipes , AKG Extrusions, Hind pipes /Hind plast, , JAL (Jupiter Aqua lines ltd).ss 4. LLDPE ROTO water Tanks - Sintex, Aquatech, Nandi, Hind pipes and Hind plast, HIPPO+, Sudhakar irrigation systems, JAL (Jupiter Aqua lines ltd), Agarwal. 5. PVC - LLC Cisterns - Parryware/ Slimlines/ CERA/ Hindware/Prayag Polymer/ APOLLO PIPES LTD, , JAL (Jupiter Aqua lines ltd)
H	SECTION	CENTRIFUGAL CI PIPES & FITTINGS - IS : 1729
		<ol style="list-style-type: none"> 1. SUPPLY & LAYING OF CAST IRON PIPES - BIC/ NECO/ Jayaswal Neco 2. SUPPLYING & LAYING OF C.I. FITTINGS - BIC/ NECO/ Jayaswal Neco
I	SECTION	MISCELLANEOUS ITEMS
		<ol style="list-style-type: none"> 1. POLYETHYLENE-ALUMINIUM-POLYETHYLENE COMPOSITE PIPES - Kitec/ Kisan/ Uniflex/M/s Sumolex Polyplast Pvt. Ltd/ APOLLO PIPES LTD 2. CPVC PIPES - Supreme/ Ashirvad/ Astral/ Prince / Kisan / Ajay/Birla Aerocon/ Hindware Trueflo/Sudhakar/Prayag Polymer/ M/s Sumolex Polyplast Pvt. Ltd, Watertec, Ambani, Suki, Austro, Nandi/ DEC Industries PVT LTD, Sentini flo pipes, AKG Extrusions Pvt Ltd , Hind pipes and Hind plast HIPPO+

Sl. No	SECTION	NAMES OF THE RECOMMENDED BRAND/ MANUFACTURER/ SUPPLIER
		3. PPR PIPES - Supreme/ Ashirvad/ Astral/ Prince/ Kisan / SFMC / KPT/ M/s Sumolex Polyplast Pvt. Ltd, Hind pipes and Hind plast,HIPPO+ 4. Steel sinks: M/s Futura kitchen sinks Pvt Ltd , JAL (Jupiter Aqua lines ltd), Suki 5. KITCHEN SANITARY AND SPA ITEMS FOR VIP BUILDINGS: UNISPACE, JAL (Jupiter Aqua lines ltd)



Andhra Pradesh Government

SCHEDULE OF RATES

ELECTRICAL AND ELECTRO-MECHANICAL WORKS

**PART III -BUILDINGS
FOR THE YEAR
2022-23**

PREAMBLE FOR ELECTRICAL WORKS

1. Overheads and Contractor Profit and over head charges as mentioned in the preamble for Buildings SoR 2022-23 (Civil and Electrical) is applicable to all original electrical works subject to the fulfilment of conditions mentioned in Para 4.0 of preamble.
2. Municipal Area Allowance, Agency or Tribal area allowance or any such allowance on the labour components is applicable to Electrical works as per the Preamble for Buildings SOR 2022-23
3. The contractor is solely responsible for both quality and quantity.
4. Proposing specific make in the estimate from the SOR is within the scope of concerned field officers based on the necessity and availability of materials in such areas.
5. In case of 2way points i.e. stair case point etc where two way switch control is necessary, an extra at 50 % excess over each point shall be allowed
6. Where ever the light/fan point is provided at a height/length of 15 feet and above, then an extra of 50% over the point rates shall be allowed.
7. The rates for common civil items including labour rates have to be adopted from prevailing SOR.
8. The rates for all types of electrical items proposed in SOR are exclusive of GST (basic rates).
9. The rates for other items (Not covered in SoR) have to be invariably followed based on the prevailing market rates, since the rates and specification varies from manufacturer to manufacturer considerably. Hence, rates for certain items are not incorporated in the SOR. However, relevant data without rates is provided in the standard datas for electrical works.
10. In case of any addition/alteration/rectification to the proposed SOR, the approval has to be obtained from the Chief Engineer R&B Electrical. Temporary approvals for materials which are under relevant specifications of the BIS / IEC and BEE star ratings can be given by the Chief Engineer (R&B) Electrical.
11. The Superintending Engineer (R&B) Electrical will review the performance over the quality of the makes proposed in the SOR from time to time and in case any inferior quality is observed the same shall be brought to the notice of the Chief Engineer (R&B) Electrical to consider for deletion from the SOR.
12. The schedule of rates is only for guidance of officers for preparation of estimates as per the Para 113 of APPWD code. The authority that sanctioned the estimate is however responsible for adopting the proper rates in the estimates as envisaged in para 45 of APPWD code.
13. As per GO Ms No.51 Industries and commence (MSME) Dept Dt:01.06.2010, all the indenting departments / Agents should give preference to local MSME which are manufacturing quality products having ISO 9001 – 2000, GEM, BIS certification

Chief Engineer(R&B) Electrical

S L. N O.	INDEX
	SECTION - 1
1.1	M.S.CONDUIT PIPES
1.2	PVCCONDUITPIPES
1.3	METAL BOXES FOR SWITCHBOARDS
1.4	T.W.BOARDS
1.5	COPPER FLEXIBLECABLES
1.6	SERVICEMAINSANDFLAT CABLES OF ISI FOR SUBMERSIBLEMOTORS.
1.7	FLUSH TYPESWITCHES AND ACCESSORIES
1.8	MODULARSWITCHESAND ACCESSORIES
	SECTION - 2
2.1	PANELMOUNTING SWITCHDISCONNECTOR FUSE UNITS
2.2	ON LOAD CHANGE OVER SWITCHES.(OPEN EXECUTION)
2.3	OFF LOAD CHANGEOVER SWITCHESIN SS ENCLOUSURE
2.4	AUTOTRANSFER SWITCH
2.5	REWIRABLE/ DOUBLEBREAK SWITCHESIN SS ENCLOSURE
2.6	HRCFUSELINKS (BOLTED TYPE)
2.7	PORCELAIN REWIRABLEFUSE UNITS.
2.8	VOLTAGESURGEPROTECTORS
2.9	PANELMOUNTING MCCBs/ ACBs/BUS DUCTs
2.1 0	MCBs
2.1 1	ISOLATORS
2.1 2	RCCBs
2.1 3	MCBDISTRIBUTIONBOARDS
	SECTION - 3

3.1	STREET LIGHT LUMINAIRES
3.2	LED POST TOP LANTERN LUMINAIRES

SL. NO.	INDEX
3.3	ACCESSORIES FORMV / SV /MH LUMINAIRES i.e., COPPER BALLASTS,ENERGY SAVING ELECTRONIC BALLAST FOR STREETLIGHT,CAPACITORS,IGNITORS
3.4	LAMPS
3.5	AUTOMATIC STREETLIGHT CONTROL SYSTEMS
3.6	INTERNAL LUMINAIRES
3.7	FLUORESCENT / CFL LAMPS/LED BULBS
3.8	LED LUMINAIRES
	SECTION - 4
4.1	U.G.CABLES
4.2	CABLE TRAYS
4.3	DOUBLE WALL CORRUGATED HDPE PIPE
	SECTION - 5
5.1	FANS
5.2	WATER HEATERS (CONVENTIONAL & SOLAR)
5.3	ACCESSORIES FOR WATER HEATERS
5.4	PUMPSETS AND ITS CONTROL PANEL BOARDS
5.5	AIR CONDITIONERS(SPLIT/CASSETTE)
5.6	HVAC SYSTEMS(VRV/VRF)
5.7	EVAPORATIVE AIR COOLING SYSTEM
5.8	STABILIZERS
5.9	REPAIRING OF FANS,COOLERS,PUMPS,MOTORS, FRIDGES AND AIR CONDITIONERS
	SECTION - 6
6.1	SWAGED,OCTOGONAL AND GRP POLES AND ACCESSORIES.
6.2	LT PANEL AND ACCESSORIES

6.3	SUBSTATION EQUIPMENT AND TRANSFORMERS
6.4	MAINTENANCEAND REPAIRS OF TRANSFORMERS
6.5	OVERHEAD LINES AND LINE MATERIALS
6.6	LIGHNING PROTECTIVE SYSTEMS
6.7	EARTHINGS
SECTION - 7	
7.1	LOCALAREA NETWORK
7.2	RACEWAYS AND JUNCTION BOXES
7.3	COMPUTERS, PRINTERS, SCANNERS
7.4	SMALL EPABX SYSTEM
7.5	LARGE EPABX SYSTEM
7.6	C.C.TV & SURVEILLANCE SYSTEM
7.7	PUBLIC ADDRESS SYSTEMS
7.8	AUDIO-VIDEO SYSTEMS
SECTION - 8	
8.1	MISCELLANIOUS ITEMS
8.2	LEGEND PLATES
8.3	COPPER/ALUMINIUM/GI ITEMS
8.4	SMCTYPESUPPORTSFOR BUSBARS
8.5	LABOUR RATES
SECTION - 9	
9.1	WIRELESS FIRE ALARAMSYSTEM
9.2	ADDRESSABLE - FIREALARAM SYSTEM
9.3	CONVENTIONAL - FIREALARAM SYSTEM
9.4	POWDER BASED FIRE EXTINGUISHERS
9.5	FIRE HYDRANT AND SPRINKLER SYSTEM

	SECTION - 10
10.1	DIESEL GENERATORS
	SECTION - 11
11.1	INVERTERS AND ONLINE UPS SYSTEMS
	SECTION- 12
12.1	TEMPORARY ILLUMINATION
12.2	HIRING OF GENERATORS (TE-DG)
	SECTION- 13
13	13.1 ,13.2 & 13.3 LIFTS & Dismantling
	SECTION- 14 (Electrical items recommended by Chief Engineer (APMSIDC))
14.1	MEDICAL GAS PIPE LINE SYSTEM
14.2.	STP & ETP WORKS (ELECTRO-MECHANICAL ITEMS)
14.3	BUILDING MANAGEMENT SYSTEMS
14.4	ACCESS CONTROL SYSTEMS
14.5	NURSE-CALL SYSTEM
A-I	List of recommended Brands / manufacturers
A-II	General Guide Lines

SCHEDULED RATES FOR ELECTRICAL & ELECTRO MECHANICAL ITEMS SOR 2022-23

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			SECTION - 1		
		1.1	M.S. CONDUIT PIPES		
1		ELEC-1.1.1	Supply of ISI, outer dia,..... thickness MS conduit pipe as per IS-9537 Part II . Makes : As per list of recommended brands		
	MAT-02621	a	20 mm (1.6 mm thick)	1 RM	107
	MAT-02622	b	25 mm (1.6 mm thick)	1 RM	138
	MAT-02623	c	32 mm (1.6 mm thick)	1 RM	197
	MAT-02624	d	38 mm (2.0 mm thick)	1 RM	322

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-02625	e	50 mm (2.0 mm thick)	1 RM	412
2		ELEC-1.1.2	Supply of MS Junction box normal range big size long neck.		
	MAT-02626	a	19/20 mm	1 No	30
	MAT-02627	b	25 mm	1 No	36
	MAT-02628	c	32 mm	1 No	83
	MAT-02629	d	40/38 mm	1 No	119
	MAT-02630	e	50 mm	1 No	227
3		ELEC-1.1.3	Supply of .....MS Junction deep box.		
	MAT-02631	a	20/25 mm	1 No	78
	MAT-02632	b	32 mm	1 No	138
	MAT-02633	c	40 mm	1 No	167
	MAT-02634	d	50 mm	1 No	203
4		ELEC-1.1.4	Supply of MS Inspection Bends.		
	MAT-02635	a	19/20 mm	1 No	26
	MAT-02636	b	25 mm	1 No	30
	MAT-02637	c	32 mm	1 No	66
	MAT-02638	d	40/38 mm	1 No	95
	MAT-02639	e	50 mm	1 No	203

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
5		ELEC-1.1.5	Supply of MS Inspection Tee.		
	MAT-02640	a	19/20 mm	1 No	30
	MAT-02641	b	25 mm	1 No	36
	MAT-02642	c	32 mm	1 No	83
	MAT-02643	d	40/38 mm	1 No	102
	MAT-02644	e	50 mm	1 No	209
6		ELEC-1.1.6	Supply of MS Inspection Elbow.		
	MAT-02645	a	19/20 mm	1 No	26
	MAT-02646	b	25 mm	1 No	36
	MAT-02647	c	32 mm	1 No	66
	MAT-02648	d	40/38 mm	1 No	83
	MAT-02649	e	50 mm	1 No	191
7		ELEC-1.1.7	Supply of MS Inspection 10 Guage G.I. checknut of size		
	MAT-02650	a	19/20 mm	100 Nos	238
	MAT-02651	b	25 mm	100 Nos	298
	MAT-02652	c	32 mm	100 Nos	596
	MAT-02653	d	40/38 mm	100 Nos	865
	MAT-02654	e	50 mm	100 Nos	1443

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
8		ELEC-1.1.8	Supply of Saddles with Base.		
	MAT-02655	a	19/20 mm	100 Nos	257
	MAT-02656	b	25 mm	100 Nos	269
	MAT-02657	c	32 mm	100 Nos	453
	MAT-02658	d	40/38 mm	100 Nos	746
	MAT-02659	e	50 mm	100 Nos	942
9		ELEC-1.1.9	Supply of .....20 guage Saddles.		
	MAT-02660	a	19/20 mm	100 Nos	131
	MAT-02661	b	25 mm	100 Nos	179
	MAT-02662	c	32 mm	100 Nos	286
	MAT-02663	d	40/38 mm	100 Nos	370
	MAT-02664	e	50 mm	100 Nos	453
10		ELEC-1.1.10	Supply of 16 Guage socket coupler.		
	MAT-02665	a	19/20 mm	12 Nos	72
	MAT-02666	b	25 mm	12 Nos	95
	MAT-02667	c	32 mm	12 Nos	155
	MAT-02668	d	38 mm	12 Nos	203
	MAT-02669	e	40mm	12 Nos	227

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-02670	f	50 mm	12 Nos	477
11		ELEC-1.1.11	Supply of 19mm Ball Socket.		
	MAT-02671	a	19 mm	12 Nos	274
	MAT-02672	b	25 mm	12 Nos	417
		1.2	PVC CONDUIT PIPES		
12		ELEC-1.2.1	Supply of ISI outer dia heavy grade with IS:9537 part 3 FRLS rigid PVC pipe Makes : As per list of recommended brands		
	MAT-02673	a	20 mm(1.95 - 2.10)mm thickness	1 RM	34
	MAT-02674	b	25 mm(2.00 - 2.20)mm thickness	1 RM	43
13		ELEC-1.2.2	Supply of ISI outer dia medium grade with IS:9537 part 3 FRLS rigid PVC pipe. Makes : As per list of recommended brands		
	MAT-02675	a	20mm (1.40 -1.55)mm thickness	1 RM	24
	MAT-02676	b	25mm (1.60 -1.80)mm thickness	1 RM	34
	MAT-02677	c	32mm (1.90 - 2.10)mm thickness	1 RM	52
	MAT-02678	d	40mm (2.10 - 2.30)mm thickness	1 RM	70
	MAT-02679	e	50mm (2.60 - 2.85)mm thickness	1 RM	100
			NOTE:Add 5% extra on above price for Red/Yellow/Blue/Black/Green Colour PVC pipes for specific purpose Usage		
14		ELEC-1.2.3	Supply of ISI width and 12.5mm height Casing and Caping. Makes : As per list of recommended brands		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-02680	a	19/20 mm	1 RM	26
	MAT-02681	b	25mm	1 RM	40
	MAT-02682	c	32mm	1 RM	47
	MAT-02683	d	38/40mm	1 RM	77
15		ELEC-1.2.4	Supply of FRPP corrugated Flexible conduit pipe. Makes : As per list of recommended brands		
	MAT-02684	a	19/20 mm	1 RM	16
	MAT-02685	b	25mm	1 RM	20
	MAT-02686	c	32mm	1 RM	31
	MAT-02687	d	38/40mm	1 RM	43
	MAT-02688	e	50 mm	1 RM	71
16		ELEC-1.2.5	Supply of PVC Flexible Couplings for FRPP Corrugated conduit pipe . Makes : As per list of recommended brands		
	MAT-02689	a	19/20 mm	1 No	13
	MAT-02690	b	25mm	1 No	20
	MAT-02691	c	32mm	1 No	34
	MAT-02692	d	40mm	1 No	40
	MAT-02693	e	50 mm	1 No	73
17		ELEC-1.2.6	Supply of..... PVC Junction Boxes confirms to IS : 3419 Makes : As per list of recommended brands		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-02694	a	19/20 mm	1 No	25
	MAT-02695	b	25mm	1 No	26
	MAT-02696	c	32mm	1 No	47
	MAT-02697	d	40mm	1 No	49
	MAT-02698	e	50 mm	1 No	66
18		ELEC-1.2.7	Supply of .....PVC deep Junction Boxes confirms to IS : 3419. Makes : As per list of recommended brands		
	MAT-02699	a	19/20 mm	1 No	30
	MAT-02700	b	25mm	1 No	34
	MAT-02701	c	32mm	1 No	53
	MAT-02702	d	40/38 mm	1 No	58
	MAT-02703	e	50 mm	1 No	84
19		ELEC-1.2.8	Supply of PVC Bends. Makes : As per list of recommended brands		
	MAT-02704	a	19/20 mm dia 1.5mm thick	1 No	8
	MAT-02705	b	25mm dia 1.5mm thick	1 No	11
	MAT-02706	c	32mm dia 2.0mm thick	1 No	24
	MAT-02707	d	40 mm dia 2.0mm thick	1 No	26

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-02708	e	50 mm dia 2.0mm thick	1 No	38
20	MAT-02709	ELEC-1.2.9	Dummy Cover for PVC junction boxes	1 No	7
21		ELEC-1.2.10	Supply and fixing of DLP PVC Mini-trunking with independent cover on wall/ ceiling mm including cost of all accessories like end caps, Internal/External angles, flat Angles, flat joints etc., with all labour charges, transportaion etc., complete.		
		a	25mm x 20 mm	1 RM	115
		b	105/100 x 50 mm	1 RM	549
		1.3	HOT DIP GALVANIZED METAL BOXES for switch boards		
22		ELEC-1.3.1	Supply of..... Hot Dip galvanized 20/18 SWG Module box with earthing terminal		
	MAT-02710	a	1 or 2	1 No	68
	MAT-02711	b	3	1 No	95
	MAT-02712	c	4	1 No	114
	MAT-02713	d	6	1 No	155
	MAT-02714	e	8 or 9	1 No	203
	MAT-02715	f	12	1 No	245
			METALLIC BOXES		
23		ELEC-1.3.2	Supply of .....18 SWG sheet steel boxes duly finished with two coats of zinchromate redoxide		
	MAT-02716	a	100mmx100x50mm	1 No	61
	MAT-	b	175mmx100x60mm	1 No	73

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	02717				
	MAT-02718	c	150mmx150x60mm	1 No	85
	MAT-02719	d	200mmx150x60mm	1 No	97
	MAT-02720	e	200mmx250x75mm	1 No	121
	MAT-02721	f	250mmx300x75mm	1 No	212
	MAT-02722	g	300mmx375x100mm	1 No	273
		1.4	T.W. BOARDS		
24		ELEC-1.4.1	Supply of T.W.Deep Box of Size		
	MAT-02723	a	4" x 4"	1 No	12
	MAT-02724	b	4" x 7"	1 No	22
	MAT-02725	c	6" x 6"	1 No	24
	MAT-02726	d	6" x 8"	1 No	36
	MAT-02727	e	8" x 10"	1 No	61
	MAT-02728	f	10" x 12"	1 No	85
	MAT-02729	g	12" x 15"	1 No	133
25		ELEC-1.4.2	Supply of Decolam Board of size		
	MAT-02730	a	4" x 4"	1 No	19
	MAT-02731	b	4" x 7"	1 No	31
	MAT-	c	6" x 6"	1 No	43

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	02732				
	MAT-02733	d	6" x 8"	1 No	48
	MAT-02734	e	8" x 10"	1 No	85
	MAT-02735	f	10" x 12"	1 No	133
	MAT-02736	g	12" x 15"	1 No	200
26		ELEC-1.4.3	Supply of Peeta Boards of size		
	MAT-02737	a	9" x 14"	1 No	61
	MAT-02738	b	12" x 10"	1 No	67
	MAT-02739	c	15" x 20"	1 No	230
	MAT-02740	d	18" x 24"	1 No	333
	MAT-02741	e	18" x 30"	1 No	411
27		ELEC-1.4.4	Supply of No.8 Screws of		
	MAT-02742	a	12mm.	100 Nos	73
	MAT-02743	b	25mm.	100 Nos	91
	MAT-02744	c	30mm.	100 Nos	109
	MAT-02745	d	35/38mm.	100 Nos	121
	MAT-02746	e	50mm	100 Nos	141
	MAT-02747	f	63/75mm.	100 Nos	169

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
		1.5	COPPER FLEXIBLE CABLES (AS PER IS:694)		
28		ELEC-1.5.1	Supply of.....FRLS/ FRLS-H / HFFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes : As per list of recommended brands as category I		
	MAT-02748	a	1.0 Sqmm	100 RM	1375
	MAT-02749	b	1.5 Sqmm	100 RM	1977
	MAT-02750	c	2.5 Sqmm	100 RM	3193
	MAT-02751	d	4.0 Sqmm	100 RM	4875
	MAT-02752	e	6.0 Sqmm	100 RM	7460
	MAT-02753	f	10.0 Sqmm	100 RM	11517
	MAT-02754	g	16.0 Sqmm	100 RM	18191
29		ELEC-1.5.2	Supply of FRLS / FRLS-H / HFFR / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes : As per list of recommended brands as category II		
	MAT-02755	a	1.0 Sqmm	100 RM	1211
	MAT-02756	b	1.5 Sqmm	100 RM	1727
	MAT-02757	c	2.5 Sqmm	100 RM	2801
	MAT-02758	d	4.0 Sqmm	100 RM	4319
	MAT-02759	e	6.0 Sqmm	100 RM	6674
	MAT-02760	f	10.0 Sqmm	100 RM	10143
	MAT-02761	g	16.0 Sqmm	100 RM	16882

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
30		ELEC-1.5.3	Supply of FRLS / FRLSH / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes : As per list of recommended brands as category III		
	MAT-02762	a	1.0 Sqmm	100 RM	1047
	MAT-02763	b	1.5 Sqmm	100 RM	1466
	MAT-02764	c	2.5 Sqmm	100 RM	2356
	MAT-02765	d	4.0 Sqmm	100 RM	3533
	MAT-02766	e	6.0 Sqmm	100 RM	5497
	MAT-02767	f	10.0 Sqmm	100 RM	8703
	MAT-02768	g	16.0 Sqmm	100 RM	13349
			SHEATHED FLEXIBLE COPPER CABLES		
31		ELEC-1.5.4	Supply of .....PVC insulated and sheathed FRLS copper round cable for voltage up to 1100V as per IS 694/1990. Makes : As per list of recommended brands as category I		
	MAT-05466	a	Single Core 25 Sqmm	1 RM	288
	MAT-05467	b	Single Core 35 Sqmm	1 RM	406
	MAT-05468	c	Single Core 50 Sqmm	1 RM	576
	MAT-05469	d	Single Core 70 Sqmm	1 RM	785
	MAT-02769	e	2 core 1.5 Sqmm	1 RM	59
	MAT-02770	f	2 core 2.5 Sqmm	1 RM	92
	MAT-02771	g	2 core 4.0 Sqmm	1 RM	124

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-05470	h	2 core 6 Sqmm	1 RM	190
	MAT-05471	i	2 core 10 Sqmm	1 RM	275
	MAT-05472	j	2 core 16 Sqmm	1 RM	328
	MAT-02772	k	3 core 1.5 Sqmm	1 RM	79
	MAT-02773	l	3 core 2.5 Sqmm	1 RM	131
	MAT-02774	m	3 core 4.0 Sqmm	1 RM	183
	MAT-05473	n	3 core 6 Sqmm	1 RM	229
	MAT-05474	o	3 core 10 Sqmm	1 RM	302
	MAT-05475	p	3 core 16 Sqmm	1 RM	485
	MAT-02775	q	4 core 1.5 Sqmm	1 RM	105
	MAT-02776	r	4 core 2.5 Sqmm	1 RM	164
	MAT-02777	s	4 core 4.0 Sqmm	1 RM	249
	MAT-05476	t	4 core 6 Sqmm	1 RM	366
	MAT-05477	u	4 core 10 Sqmm	1 RM	563
	MAT-05478	v	4 core 16 Sqmm	1 RM	714
		w	2 core, 1.0 Sq.mm	1 RM	30
		x	4 core, 0.5 sq.mm	1 RM	95
		z	12 core, 0.5 sq.mm	1 RM	195
32		ELEC-1.5.5	Supply of .....PVC insulated and sheathed FRLS copper round cable for voltage up to 1100V as per IS 694/1990.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands as category II		
	MAT-05479	a	Single Core 25 Sqmm	1 RM	255
	MAT-05480	b	Single Core 35 Sqmm	1 RM	373
	MAT-05481	c	Single Core 50 Sqmm	1 RM	504
	MAT-05482	d	Single Core 70 Sqmm	1 RM	726
	MAT-02778	e	2 core 1.5 Sqmm	1 RM	52
	MAT-02779	f	2 core 2.5 Sqmm	1 RM	79
	MAT-02780	g	2 core 4.0 Sqmm	1 RM	112
	MAT-05483	h	2 core 6 Sqmm	1 RM	176
	MAT-05484	i	2 core 10 Sqmm	1 RM	249
	MAT-05485	j	2 core 16 Sqmm	1 RM	314
	MAT-02781	k	3 core 1.5 Sqmm	1 RM	72
	MAT-02782	l	3 core 2.5 Sqmm	1 RM	118
	MAT-02783	m	3 core 4.0 Sqmm	1 RM	157
	MAT-05486	n	3 core 6 Sqmm	1 RM	216
	MAT-05487	o	3 core 10 Sqmm	1 RM	281
	MAT-05488	p	3 core 16 Sqmm	1 RM	445
	MAT-	q	4 core 1.5 Sqmm	1 RM	92

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	02784				
	MAT-02785	r	4 core 2.5 Sqmm	1 RM	131
	MAT-02786	s	4 core 4.0 Sqmm	1 RM	209
	MAT-05489	t	4 core 6 Sqmm	1 RM	340
	MAT-05490	u	4 core 10 Sqmm	1 RM	517
	MAT-05491	v	4 core 16 Sqmm	1 RM	674
		w	2 core, 1.0 sq.mm	1 RM	25
		x	4 core, 0.5 sq.mm	1 RM	30
		y	12 core, 0.5 sq.mm	1 RM	48
33	MAT-02787	ELEC-1.5.6	Supply of 23 / 0060 twin core twisted / flat heavy Copper wire. Makes : As per list of recommended brands.	100 RM	1244
34		ELEC-1.5.7	Supply and Transportation of RG 6 co-axial cable for TVs. Makes : As per list of recommended brands as category I.	1 RM	29
35		ELEC-1.5.8	Supply and Transportation of RG 6 co-axial cable for TVs. Makes : As per list of recommended brands as category II.	1 RM	16
		1.6	SERVICE MAINS AND FLAT CABLE FOR SUBMERSIBLE MOTORS.		
36		ELEC-1.6.1	Supply of .....WPSC (Weather Proof Single Core) ISI Alluminium Wire. Makes : As per list of recommended brands.		
	MAT-02788	a	2.5 Sqmm	100 RM	911
	MAT-02789	b	6 Sqmm	100 RM	1816

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-02790	c	10 Sqmm	100 RM	1980
	MAT-02791	d	16 Sqmm	100 RM	3300
37		ELEC-1.6.2	Supply of .....WPTC (Weather Proof Twin Core) ISI Alluminium Wire. Makes : As per list of recommended brands.		
	MAT-02792		6 Sqmm	100 RM	3696
	MAT-02793		10 Sqmm	100 RM	4469
38		ELEC-1.6.3	Supply of 3 Core..... Flat Copper cable of ISI for Submersible Motors confirming to IS:694:1990. Makes : As per list of recommended brands as category I		
	MAT-02794	a	1.5 Sqmm	1 RM	72
	MAT-02795	b	2.5 Sqmm	1 RM	105
	MAT-02796	c	4.0 Sqmm	1 RM	164
	MAT-02797	d	6.0 Sqmm	1 RM	236
	MAT-02798	e	10.0 Sqmm	1 RM	373
	MAT-02799	f	16.0 Sqmm	1 RM	490
39		ELEC-1.6.4	Supply of 3 Core..... Flat Copper cable of ISI for Submersible Motors confirming to IS:694:1990. Makes : As per list of recommended brands as category II		
	MAT-02800	a	1.5 Sqmm	1 RM	66
	MAT-02801	b	2.5 Sqmm	1 RM	94
	MAT-02802	c	4.0 Sqmm	1 RM	145
	MAT-	d	6.0 Sqmm	1 RM	209

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	02803				
	MAT-02804	e	10.0 Sqmm	1 RM	340
	MAT-02805	f	16.0 Sqmm	1 RM	445
		1.7	FLUSH TYPE SWITCHES AND ACCESSORIES		
40		ELEC-1.7.1	Supply of Makes : As per list of recommended brands.		
	MAT-02806	a	6A 1 Way flush type Swich.	1 No	18
	MAT-02807	b	6A 2 Way flush type Swich.	1 No	22
	MAT-02808	c	6A 2 pin flush type Socket.	1 No	21
	MAT-02809	d	6A 3/2 pin flush type Socket with shutter.	1 No	27
	MAT-02810	e	6A flush type Neon Indicator.	1 No	21
	MAT-02811	f	6A Triangle Plug Top of	1 No	35
	MAT-02812	g	1 Way flush type Bed Swich / Bell Push.	1 No	22
	MAT-02813	h	16A flush type Swich.	1 No	69
	MAT-02814	i	16A flush type Socket with shutter.	1 No	69
	MAT-02815	j	16A flush type Switch Socket combined (2 in one).	1 No	104
	MAT-02816	k	16A Triangle Plug Top	1 No	53
	MAT-02817	l	stepped type Electronic Regulator.	1 No	208
	MAT-02818	m	3 Plate Jumbo Ceiling Rose.	1 No	22

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-02819	n	BH / SBH.	1 No	21
	MAT-02820	o	Pendent Holder / Adopter.	1 No	18
	MAT-02821	p	Telephone Jack with Connector.	1 No	53
	MAT-02822	q	TV Antenna Outlet.	1 No	29
	MAT-02823	r	15A/10A Flush type Fuse.	1 No	35
	MAT-02824	s	32A DP Flush type.	1 No	110
	MAT-02825	t	Calling Bell.	1 No	76
	MAT-02826	u	Buzzer.	1 No	64
	MAT-02827	v	Ding Dong Bell.	1 No	156
	MAT-02828	w	Electronic Musical Bell.	1 No	254
	MAT-02829	x	Remote Bell.	1 No	734
	MAT-02830	y	MC Holder.	1 No	23
	MAT-02831	z	Spike Guard with 1 No Switch and 4 Nos Sockets.	1 No	404
	MAT-02832	A	Spike Guard with 4 No Switches and 4 Nos Sockets.	1 No	578
		1.8	MODULAR SWITCHES AND ACCESSORIES		
41		ELEC-1.8.1	Supply of Makes : As per list of recommended brands as category I.		
	MAT-02833	a	6A / 10A 1 Way 1 Module Modular Switch.	1 No	94
	MAT-02834	b	6A / 10A 2 Way 1 Module Modular Switch.	1 No	105

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-02835	c	6A / 10A 2 Pin 2 Module Modular Socket.	1 No	94
	MAT-02836	d	6A / 10A 3/2 Pin 2 Module Modular Socket with shutter.	1 No	143
	MAT-02837	e	6A / 10A 1 Module Modular Switch with Neon Indicator.	1 No	116
	MAT-02838	f	6A / 10A Modular Bell Push with Neon Indicator.	1 No	138
	MAT-02839	g	16A / 10A Modular Flush Fuse with Neon Indicator.	1 No	127
	MAT-02840	h	16A / 20A 1 Way 1 Module Modular Switch.	1 No	127
	MAT-02841	i	16A / 20A 2 Way 1 Module Modular Switch.	1 No	138
	MAT-02842	j	20A 1 Way 1 Module Modular Switch with Indicator.	1 No	138
	MAT-02843	k	20A Modular Socket with shutter.	1 No	193
	MAT-02844	l	16A/6A 1 way Combi Socket Modular Socket with shutter	1 No	198
	MAT-02845	m	Deleted	1 No	
	MAT-02846	n	2 Module Modular type Electronic step type Fan Regulator.	1 No	495
	MAT-02847	o	Modular socket type Telephone jack with Connector	1 No	99
	MAT-02848	p	Modular co-Axial socket type TV Antenna outlet.	1 No	99
	MAT-02849	q	Push type button motor starter for A.C Units	1 No	798
	MAT-08755	r	32A Modular type Double pole Switch with indicator	1 No	350
	MAT-08756	s	One Module PVC Blanking plate	1 No	25
	MAT-08757	t	Skirting Light with LED 230V 3 Module	1 No	175

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
42		ELEC-1.8.2	Supply of Makes : As per list of recommended brands as category II		
	MAT-02850	a	6A / 10A 1 Way 1 Module Modular Switch.	1 No	61
	MAT-02851	b	6A / 10A 2 Way 1 Module Modular Switch.	1 No	72
	MAT-02852	c	6A / 10A 2 Pin 2 Module Modular Socket.	1 No	61
	MAT-02853	d	6A / 10A 3/2 Pin 2 Module Modular Socket with shutter.	1 No	94
	MAT-02854	e	6A / 10A 1 Module Modular Switch with Neon Indicator.	1 No	77
	MAT-02855	f	6A / 10A Modular Bell Push with Neon Indicator.	1 No	88
	MAT-02856	g	16A / 10A Modular Flush Fuse with Neon Indicator.	1 No	83
	MAT-02857	h	16A / 20A 1 Way 1 Module Modular Switch.	1 No	83
	MAT-02858	i	16A / 20A 2 Way 1 Module Modular Switch.	1 No	94
	MAT-02859	j	20A 1 Way 1 Module Modular Switch with Indicator.	1 No	88
	MAT-02860	k	20A Modular Socket with shutter.	1 No	138
	MAT-02861	l	16A/6A 1 way Combi Socket Modular Socket with shutter	1 No	138
	MAT-02862	m	Deleted	1 No	
	MAT-02863	n	2 Module Modular type Electronic step type Fan Regulator.	1 No	402
	MAT-02864	o	Modular socket type Telephone jack with Connector	1 No	66
	MAT-02865	p	Modular co-Axial socket type TV Antenna outlet.	1 No	66
	MAT-02866	q	Push type button motor starter for A.C Units	1 No	743

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-08758	r	32A Modular type Double pole Switch with indicator	1 No	300
	MAT-08759	s	One Module PVC Blanking plate	1 No	20
	MAT-08760	t	Skirting Light with LED 230V 3 Module	1 No	150
			COVER FRAMES		
43		ELEC-1.8.3	Supply of Makes : As per list of recommended brands as category I.		
	MAT-02867	a	1 or 2 Modular Cover Frame.	1 No	66
	MAT-02868	b	3 Modular Cover Frame.	1 No	77
	MAT-02869	c	4 Modular Cover Frame.	1 No	88
	MAT-02870	d	6 Modular Cover Frame .	1 No	132
	MAT-02871	e	8 Modular Horizontal / Vertical Cover Frame.	1 No	171
	MAT-02872	f	12 Modular Vertical Cover Frame.	1 No	209
44		ELEC-1.8.4	Supply of Makes : As per list of recommended brands as category II		
	MAT-02873	a	1 or 2 Modular Cover Frame.	1 No	55
	MAT-02874	b	3 Modular Cover Frame.	1 No	66
	MAT-02875	c	4 Modular Cover Frame.	1 No	77
	MAT-02876	d	6 Modular Cover Frame .	1 No	110
	MAT-02877	e	8 Modular Horizontal / Vertical Cover Frame.	1 No	138
	MAT-02878	f	12 Modular Vertical Cover Frame.	1 No	165

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			SECTION - 2		
		2.1	PANEL MOUNTING SWITCH DISCONNECTOR FUSE UNITS (SDFU)		
45		ELEC-2.1.1	Supply of .....TPN Switch Disconnecter Fuse Unit a Cubical type without fuses as per IS: 13947/IEC 60947-3 Makes : As per list of recommended brands as category I.		
	MAT-02879	a	32A	1 No	1543
	MAT-02880	b	63A	1 No	2635
	MAT-02881	c	125A	1 No	6291
	MAT-02882	d	200A	1 No	8249
	MAT-02883	e	250A	1 No	9851
	MAT-02884	f	400A	1 No	15192
	MAT-02885	g	630A	1 No	25756
46		ELEC-2.1.2	Supply of TPN Switch Disconnecter Fuse Unit Cubical type without fuses as per IS: 13947/IEC 60947-3 Makes : As per list of recommended brands as category II		
	MAT-02886	a	32A	1 No	1306
	MAT-02887	b	63A	1 No	1935
	MAT-02888	c	125A	1 No	4332
	MAT-02889	d	200A	1 No	6528
	MAT-02890	e	250A	1 No	7359
	MAT-02891	f	400A	1 No	11276

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-02892	g	630A	1 No	18872
		2.2	ON LOAD CHANGEOVER SWITCHES (OPEN EXECUTION)		
47		ELEC-2.2.1	Supply of 4 Pole Change Over Switch on Load with open Execution as per IS:13947 Makes : As per list of recommended brands as category I.		
	MAT-02893	a	63A	1 No	4866
	MAT-02894	b	125A	1 No	9139
	MAT-02895	c	200A	1 No	12225
	MAT-02896	d	250A	1 No	17447
	MAT-02897	e	400A	1 No	26349
	MAT-02898	f	630A	1 No	31453
48		ELEC-2.2.2	Supply of 4 Pole Change Over Switch on Load with open Execution as per IS:13947 Makes : As per list of recommended brands as category II.		
	MAT-02899	a	32 A	1 No	1780
	MAT-02900	b	63A	1 No	4392
	MAT-02901	c	125A	1 No	8664
	MAT-02902	d	200A	1 No	11276
	MAT-02903	e	250A	1 No	16023
	MAT-02904	f	400A	1 No	24688
	MAT-	g	630A	1 No	29079

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	02905				
		2.3	OFF LOAD CHANGE OVER SWITCHES IN SS ENCLOSURE		
49		ELEC-2.3.1	Supply of Off load Changeover Switch in sheet steel enclosure as per IS:13947 Makes : As per list of recommended brands as category I		
	MAT-02906	a	32A 240V DP	1 No	1484
	MAT-02907	b	63A 415V FP	1 No	5104
	MAT-02908	c	100A 415V FP	1 No	8961
50		ELEC-2.3.2	Supply of Off load Changeover Switch in sheet steel enclosure as per IS:13947 Makes : As per list of recommended brands as category II		
	MAT-02909	a	32A 240V DP	1 No	861
	MAT-02910	b	63A 415V FP	1 No	2967
	MAT-02911	c	100A 415V FP	1 No	5578
		2.4	AUTO TRANSFER SWITCH		
51		ELEC-2.4.1	Supply of auto transfer switch for instantaneous switching between sources as per IEC 60947-6-1 Closed transition,(bare unit- without enclosure) with voltage surge suppressor,communication interface etc complete., Makes : As per list of recommended brands.		
	MAT-02912	a	125A, 415VAC, FP	1 No	41542
	MAT-02913	b	160A, 415VAC FP	1 No	43322
	MAT-02914	c	200A 415VACFP	1 No	44509
	MAT-02915	d	250A, 415VAC FP	1 No	55784

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-02916	e	315A, 415VAC FP	1 No	56378
	MAT-02917	f	400A, 415VAC FP	1 No	70621
52		ELEC-2.4.2	Supply of .....auto transfer switch for instantaneous switching between sources as per IEC 60947-6-1 Closed transition,(bare unit- without enclosure) with voltage surge suppressor, communication interface etc complete. Makes : As per list of recommended brands.		
	MAT-02918	a	630A,415VAC FP	1 No	89611
	MAT-02919	b	800A, 415VAC FP	1 No	118690
	MAT-02920	c	1000A,415VAC FP	1 No	147176
	MAT-02921	d	1250A, 415VAC FP	1 No	182783
	MAT-02922	e	1600 A, 415VAC FP	1 No	226698
	MAT-02923	f	2000 A, 415VAC FP	1 No	331145
	MAT-02924	g	2500 A, 415VAC FP	1 No	365565
	MAT-02925	h	3200 A, 415VAC FP	1 No	470012
		2.5	REWIRABLE / DOUBLE BREAK SWITCHES IN SS ENCLOSURE		
53		ELEC-2.5.1	Supply of Rewirable Fuse Switch in SS enclosure as per IS:13947 Makes : As per list of recommended brands as category I		
	MAT-02926	a	32A 240V SPN	1 No	1009
	MAT-02927	b	32A 415V TPN	1 No	2255
	MAT-02928	c	63A 415V TPN	1 No	4629

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-02929	d	100A 415V TPN	1 No	8546
54		ELEC-2.5.2	Supply of Double Break Switch in SS enclosure without fuses as per IS:13947 Makes : As per list of recommended brands as category II		
	MAT-02930	a	100A 415V TPN	1 No	7688
	MAT-02931	b	200A 415V TPN	1 No	11060
55		ELEC-2.5.3	Supply of Rewirable Fuse Switch in SS enclosure as per IS:13947 Makes : As per list of recommended brands as category I		
	MAT-02932	a	32A 240V SPN	1 No	712
	MAT-02933	b	32A 415V TPN	1 No	1092
	MAT-02934	c	63A 415V TPN	1 No	2611
	MAT-02935	d	100A 415V TPN	1 No	4985
56		ELEC-2.5.4	Supply of Double Break Switch in SS enclosure without fuse as per IS:13947 Makes : As per list of recommended brands as category II		
	MAT-02936	a	100A 415V TPN	1 No	5104
	MAT-02937	b	200A 415V TPN	1 No	8308
		2.6	HRC FUSE LINKS (DIN/BOLTED TYPE)		
57		ELEC-2.6.1	Supply of HRC Fuse Links as per IS 13703-Part 2/IEC 60269- Part 2 Makes : As per list of recommended brands as category I		
	MAT-02938	a	6A to 35 A	1 No	59
	MAT-02939	b	45A to 63A	1 No	90

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-02940	c	100 A to 160 A	1 No	279
	MAT-02941	d	250A to 350A	1 No	415
	MAT-02942	e	400A	1 No	790
	MAT-05457	f	630A	1 No	1579
		2.7	PORCELAIN REWIRABLE FUSE UNITS.		
58		ELEC-2.7.1	Supply of Porcelain Rewirable Fuse Units. Makes : As per list of recommended brands.		
	MAT-02943	a	32A 240V	1 No	119
	MAT-02944	B	32A 415V	1 No	178
	MAT-02945	C	63A 415V	1 No	297
	MAT-02946	D	100A 415V	1 No	617
59		ELEC-2.7.2	Supply of..... Porcelain Rewirable Fuse Units with extension strip. Makes : As per list of recommended brands.		
	MAT-02947	A	200A 415V	1 No	1009
	MAT-02948	B	300A 415V	1 No	1306
		2.8	VOLTAGE SURGE PROTECTORS		
60		ELEC-2.8.1	Supply of Voltage Surge Protector. Makes : As per list of recommended brands.		
	MAT-02949	A	2 Pole 2 Module 40 KA 1.4 KV	1 No	8308
	MAT-02950	B	4 Pole 4 Module 40 KA 1.4 KV	1 No	15579

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-02951	C	2 Pole 2 Module 15 KA 1.2 KV	1 No	6647
	MAT-02952	D	4 Pole 4 Module 15 KA 1.2 KV	1 No	12462
		2.9	PANEL MOUNTING MCCBs		
61		ELEC-2.9.1	Supply of, Adjustable, Confirms to IEC 60947-2 and IS 13947-Part 1&2 having Breaking Capacity with thermal magnetic release Panel Mounted. Makes : As per list of recommended brands as category I		
	MAT-02953	A	63-100A 3 Pole MCCB,16 KA	1 No	7040
	MAT-02954	B	63-100A 4 Pole MCCB,16 KA	1 No	7590
	MAT-02955	C	125A 3 Pole MCCB,25 KA	1 No	8250
	MAT-02956	D	125A 4 Pole MCCB,25 KA	1 No	9570
	MAT-02957	E	160A 3 Pole MCCB,25 KA	1 No	10450
	MAT-02958	F	160A 4 Pole MCCB,25 KA	1 No	13420
	MAT-02959	G	250A 3 Pole MCCB,36/35 KA	1 No	17050
	MAT-02960	H	250A 4 Pole MCCB,36/35 KA	1 No	22495
	MAT-02961	I	400A 3 Pole MCCB,36/35 KA	1 No	22375
	MAT-02962	J	400A 4 Pole MCCB,36/35 KA	1 No	28050
	MAT-02963	K	630A 3 Pole MCCB,50 KA	1 No	33550
	MAT-02964	L	630A 4 Pole MCCB,50 KA	1 No	41250
	MAT-02965	M	800A 3 Pole MCCB,50 KA	1 No	61600
	MAT-	N	800A 4 Pole MCCB,50 KA	1 No	66000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	02966				
		O	16 - 50A 3 Pole MCCB, 16KA	1 No	5575
		P	16 - 50A 4 Pole MCCB, 16KA	1 No	7000
		Q	200A 3 Pole MCCB,25 KA	1 No	12258
		R	200A 4 Pole MCCB,25 KA	1 No	15591
		S	300/320A 3 Pole MCCB,36/35 KA	1 No	22650
		T	300/320A 4 Pole MCCB,36/35 KA	1 No	26600
		U	500A 3 Pole MCCB,50 KA	1 No	31984
		V	500A 4 Pole MCCB,50 KA	1 No	40494
62		ELEC-2.9.2	Supply of, Adjustable, Confirms to IEC 60947-2 and IS 13947-Part 1&2 having Breaking Capacity with thermal magnetic release Panel Mounted. Makes : As per list of recommended brands as category II		
	MAT-02967	A	63-100A 3 Pole MCCB,16 KA	1 No	4950
	MAT-02968	B	63-100A 4 Pole MCCB,16 KA	1 No	6435
	MAT-02969	C	125A 3 Pole MCCB,25 KA	1 No	6270
	MAT-02970	D	125A 4 Pole MCCB,25 KA	1 No	8195
	MAT-02971	E	160A 3 Pole MCCB,25 KA	1 No	8580
	MAT-02972	F	160A 4 Pole MCCB,25 KA	1 No	11330
	MAT-02973	G	250A 3 Pole MCCB,36/35 KA	1 No	16720
	MAT-02974	H	250A 4 Pole MCCB,36/35 KA	1 No	20240
	MAT-02975	I	400A 3 Pole MCCB,36/35 KA	1 No	21010
	MAT-02976	J	400A 4 Pole MCCB,36/35 KA	1 No	25190

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-02977	K	630A 3 Pole MCCB,50 KA	1 No	29700
	MAT-02978	L	630A 4 Pole MCCB,50 KA	1 No	35860
	MAT-02979	M	800A 3 Pole MCCB,50 KA	1 No	51150
	MAT-02980	N	800A 4 Pole MCCB,50 KA	1 No	57200
		O	16 - 50A 3 Pole MCCB, 16KA	1 No	3329
		P	16 - 50A 4 Pole MCCB, 16KA	1 No	3929
		Q	200A 3 Pole MCCB,25 KA	1 No	11458
		R	200A 4 Pole MCCB,25 KA	1 No	14717
		S	300/320A 3 Pole MCCB,36/35 KA	1 No	19992
		T	300/320A 4 Pole MCCB,36/35 KA	1 No	24563
		U	500A 3 Pole MCCB,50 KA	1 No	26632
		V	500A 4 Pole MCCB,50 KA	1 No	32989
			PANEL MOUNTING ACBs (Microprocessor Based)		
63		ELEC-2.9.3	Supply of Air Circuit Breaker Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, short circuit and earth fault Protection with display and 20 faults History backup with BMS compatible communication ports. Makes : As per list of recommended brands as category I		
	MAT-02981	a	630A 3 Pole, 50kA Electrically fixed	1 No	127050.00
	MAT-02982	b	630A 3 Pole, 50kA Electrically drawout	1 No	165770.00
	MAT-02983	c	630A 4 Pole, 50kA Electrically fixed	1 No	153670.00
	MAT-02984	d	630A 4 Pole, 50kA Electrically drawout	1 No	205700.00
	MAT-02985	e	800A 3 Pole, 50kA Electrically drawout	1 No	175450.00

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-02986	f	800A 4 Pole, 50kA Electrically drawout	1 No	217800.00
	MAT-02987	g	1000A 3 Pole, 50kA Electrically drawout	1 No	183920.00
	MAT-02988	h	1000A 4 Pole, 50kA Electrically drawout	1 No	229900.00
	MAT-02989	i	1250A 3 Pole, 50kA Electrically drawout	1 No	242000.00
	MAT-02990	j	1250A 4 Pole, 50kA Electrically drawout	1 No	296450.00
	MAT-02991	k	1600A 3 Pole, 50kA Electrically drawout	1 No	272250.00
	MAT-02992	l	1600A 4 Pole, 50kA Electrically drawout	1 No	314600.00
	MAT-02993	m	2000A 3 Pole, 75kA Electrically drawout	1 No	318230.00
	MAT-02994	n	2000A 4 Pole, 75kA Electrically drawout	1 No	387200.00
	MAT-02995	o	2500A 3 Pole, 75kA Electrically drawout	1 No	435600.00
	MAT-02996	p	2500A 4 Pole, 75kA Electrically drawout	1 No	532400.00
	MAT-02997	q	3200A 3 Pole, 75kA Electrically drawout	1 No	447700.00
	MAT-02998	r	3200A 4 Pole, 75kA Electrically drawout	1 No	568700.00
64		ELEC-2.9.4	Supply of Air Circuit Breaker Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, short circuit and earth fault Protection with display and 20 faults History backup with BMS compatible communication ports. Makes : As per list of recommended brands as category II		
	MAT-02999	a	630A 3 Pole, 50kA Electrically fixed	1 No	111320.00
	MAT-03000	b	630A 3 Pole, 50kA Electrically drawout	1 No	145200.00
	MAT-	c	630A 4 Pole, 50kA Electrically fixed	1 No	127050.00

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	03001				
	MAT-03002	d	630A 4 Pole, 50kA Electrically drawout	1 No	175450.00
	MAT-03003	e	800A 3 Pole, 50kA Electrically drawout	1 No	151250.00
	MAT-03004	f	800A 4 Pole, 50kA Electrically drawout	1 No	193600.00
	MAT-03005	g	1000A 3 Pole, 50kA Electrically drawout	1 No	169400.00
	MAT-03006	h	1000A 4 Pole, 50kA Electrically drawout	1 No	193600.00
			AIR INSULATED BUS DUCT		
65		ELEC-2.9.5	Supply, instalation, testing and commisioning of .....Amp, .....KA breaking capacity (100% Neutral busbar) air insulated compact Raising mains/Bus Duct system made of CRCA sheet/Hot Galvanized steel encloser of thickness not less than 0.8 mm having degree of protection of IP 55 as per IEC/EN 61439-6, PVC/Plastic insulated reinforced with glass fibre four strip ALUMINIUM busbar in convinent sections including necessary end cover units suitable for 415 volts 3 phase, 4 wire, 50 Hz A.C. System,etc.,with necessary joints Fire barrrier at each floor Provision of tapping at each floor/every meter,continuous earthing with 2 nos alluminium strip of suitable size (one on each side0 including GI clamping brackets,angle iron brackets,steel fastners,connecting to earth system as required . Makes : As per list of recommended brands.		
	MAT-03007	a	400Amp, 50 - 53KA	RM	10385
	MAT-03008	b	630Amp, 50 - 63KA	RM	12344
	MAT-03009	c	800 Amp, 50 - 76KA	RM	13531
	MAT-03010	d	1000 Amp, 50 - 76KA	RM	15548
	MAT-03011	e	1250 Amp, 50 - 76KA	RM	16261
	MAT-03012	f	1600 Amp, 50 - 76KA	RM	20415

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
66	MAT-03013	ELEC-2.9.6	Supply and Fixing of Spring Bracket with fixing kit for Air Insulated Busduct / Raising Mains. Makes : As per list of recommended brands.	1 No	6172
67		ELEC-2.9.7	Supply and Fixing of Amps Horizontal / Vertical bends for Air Insulated Bus Duct . Makes : As per list of recommended brands.		
	MAT-03014	a	400 Amps	1 No	11869
	MAT-03015	b	630 Amps	1 No	13531
	MAT-03016	c	800 Amps	1 No	14124
	MAT-03017	d	1000Amps	1 No	16557
	MAT-03018	e	1250 Amps	1 No	17804
	MAT-03019	f	1600 Amps	1 No	20177
68		ELEC-2.9.8	Supply and Fixing of .....Amps Tap off box for Air Insulated Busduct. Makes : As per list of recommended brands.		
	MAT-03020	a	125A	1 No	14124
	MAT-03021	b	250A	1 No	16379
	MAT-03022	c	400A	1 No	24213
	MAT-03023	d	630 A	1 No	26349
			SANDWITCH BUSDUCT		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
69		ELEC-2.9.9	Supply, instalation, testing and commisioning of .....Amp, .....KA breaking capacity (100% Neutral busbar) sandwich Busduct system made of CRCA sheet/Hot Galvanized steel encloser of thickness not less than 1.5mm having degree of protection of IP 55/IP 65 as per IEC/EN 61439-6, PVC/Plastic insulated reinforced with glass fibre four strip ALUMINIUM busbar in convinent sections including end cover units suitable for 415 volts 3 phase, 4 wire, 50 Hz A.C. System,etc., with necessary joints Fire barrier at each floor Provision of tapping at each floor/every meter,continuous earthing with 2 nos alluminium strip of suitable size (one on each side0 including GI clamping brackets,angle iron brackets,steel fastners,connecting to earth system as required . Makes : As per list of recommended brands.		
	MAT-03024	a	630Amp, 36/40	RM	12700
	MAT-03025	b	800Amp, 42/50KA	RM	14243
	MAT-03026	c	1000Amp, 50KA	RM	15667
	MAT-03027	d	1250 Amp,75kA	RM	16379
	MAT-03028	e	1600 Amp,80 kA	RM	20533
	MAT-03029	f	2000 Amp ,80kA	RM	25162
	MAT-03030	g	2500 Amp ,150 kA	RM	36082
	MAT-03031	h	3200 Amp,160kA	RM	41779
	MAT-03032	i	4000 Amp,160kA	RM	55903
70		ELEC-2.9.10	Supply and Fixing of .....Amps Horizontal / Vertical bends for sandwich Bus Duct . Makes : As per list of recommended brands.		
	MAT-03033	a	630A	1 No	12937
	MAT-03034	b	800A	1 No	14005
	MAT-	c	1000A	1 No	14599

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	03035				
	MAT-03036	d	1250 A	1 No	15786
	MAT-03037	e	1600 A	1 No	18041
	MAT-03038	f	2000 A	1 No	21008
	MAT-03039	g	2500 A	1 No	26468
	MAT-03040	h	3200 A	1 No	32165
	MAT-03041	i	4000 A	1 No	36082
71		ELEC-2.9.11	Supply and Fixing of Amps Copper Flexibles for three phases and neutral for Air Insulated / sandwich Busduct . Makes : As per list of recommended brands.		
	MAT-03042	a	400A	1 No	27655
	MAT-03043	b	630A	1 No	29316
	MAT-03044	c	800A	1 No	31928
	MAT-03045	d	1000A	1 No	33589
	MAT-03046	e	1250 A	1 No	35607
	MAT-03047	f	1600 A	1 No	38337
	MAT-03048	g	2000 A	1 No	41779
	MAT-03049	h	2500 A	1 No	47476
	MAT-03050	i	3200 A	1 No	50799
	MAT-03051	j	4000 A	1 No	54241

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
72		ELEC-2.9.12	Supply and fixing of Flange end for .....Amps for Air insulated Busdusts . Makes : As per list of recommended brands.		
	MAT-03052	a	400A	1 No	10682
	MAT-03053	b	630A	1 No	14599
	MAT-03054	c	800A	1 No	18041
73		ELEC-2.9.13	Supply and fixing of Flange end for .....Amps for Sandwich Busdusts Makes : As per list of recommended brands.		
	MAT-03055	a	400A	1 No	12937
	MAT-03056	b	630A	1 No	18516
	MAT-03057	c	800A	1 No	21483
	MAT-03058	d	1000 A	1 No	22670
	MAT-03059	e	1250 A	1 No	15667
	MAT-03060	f	1600 A	1 No	17685
	MAT-03061	g	2000 A	1 No	27536
	MAT-03062	h	2500 A	1 No	46645
	MAT-03063	i	3200 A	1 No	51037
	MAT-03064	j	4000 A	1 No	53648
74		ELEC-2.9.14	Supply and Fixing of .....Amps Tap off box for Sandwich Busduct. Makes : As per list of recommended brands.		
	MAT-	a	160A	1 No	17804

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	03065				
	MAT-03066	b	250A	1 No	29910
	MAT-03067	c	400A	1 No	37862
	MAT-03068	d	630A	1 No	54953
	MAT-03069	e	800A	1 No	82490
		2.10	MCBs (AS PER IS:60898-1:2002)		
75		ELEC-2.10.1	Supply of ,..... 10KA C/D Curve ISI Mark. Makes : As per list of recommended brands as category I		
	MAT-03070	a	6-32A SP MCB	1 No	240
	MAT-03071	b	40-63A SP MCB	1 No	506
	MAT-03072	c	6-32A DP MCB	1 No	728
	MAT-03073	d	40-63A DP MCB	1 No	1158
	MAT-03074	e	6-32A TP MCB	1 No	1158
	MAT-03075	f	40-63A TP MCB	1 No	1860
	MAT-03076	g	6-32A FP MCB	1 No	1594
	MAT-03077	h	40-63A FP MCB	1 No	2322
76		ELEC-2.10.2	Supply of ,..... 10KA C/D Curve ISI Mark. Makes : As per list of recommended brands as category II		
	MAT-03078	a	6-32A SP MCB	1 No	202
	MAT-03079	b	40-63A SP MCB	1 No	437

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03080	c	6-32A DP MCB	1 No	614
	MAT-03081	d	40-63A DP MCB	1 No	886
	MAT-03082	e	6-32A TP MCB	1 No	956
	MAT-03083	f	40-63A TP MCB	1 No	1442
	MAT-03084	g	6-32A FP MCB	1 No	1303
	MAT-03085	h	40-63A FP MCB	1 No	1809
77		ELEC-2.10.3	Supply of 6-32A 10KA SP MCB, C/D Curve ISI Mark. Makes : As per list of recommended brands as category III		
	MAT-03086	a	6-32A SP MCB	1 No	164
	MAT-03087	b	40-63A SP MCB	1 No	278
	MAT-03088	c	6-32A DP MCB	1 No	430
	MAT-03089	d	40-63A DP MCB	1 No	633
	MAT-03090	e	6-32A TP MCB	1 No	772
	MAT-03091	f	40-63A TP MCB	1 No	1202
	MAT-03092	g	6-32A FP MCB	1 No	1012
	MAT-03093	h	40-63A FP MCB	1 No	1290
		2.11	ISOLATORS CONFIRMS TO I E C 60947 PART-III		
78		ELEC-2.11.1	Supply of Isolator. Makes : As per list of recommended brands as category I.		
	MAT-03094	a	32A DP	1 No	412

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03095	b	40A DP	1 No	455
	MAT-03096	c	63A DP	1 No	601
	MAT-03097	d	40A TP	1 No	772
	MAT-03098	e	63A TP	1 No	911
	MAT-03099	f	40A FP	1 No	1012
	MAT-03100	g	63A FP	1 No	1139
	MAT-03101	h	100A FP	1 No	1202
79		ELEC-2.11.2	Supply of Isolator. Makes : As per list of recommended brands as category II		
	MAT-03102	a	32A DP	1 No	399
	MAT-03103	b	40A DP	1 No	417
	MAT-03104	c	63A DP	1 No	506
	MAT-03105	d	40A TP	1 No	721
	MAT-03106	e	63A TP	1 No	734
	MAT-03107	f	40A FP	1 No	835
	MAT-03108	g	63A FP	1 No	898
	MAT-03109	h	100A FP	1 No	1107
80		ELEC-2.11.3	Supply of..... Isolator. Makes : As per list of recommended brands as category III		
	MAT-03110	a	32A DP	1 No	266

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03111	b	40A DP	1 No	316
	MAT-03112	c	63A DP	1 No	430
	MAT-03113	d	40A TP	1 No	462
	MAT-03114	e	63A TP	1 No	531
	MAT-03115	f	40A FP	1 No	715
		2.12	RCCBs(ELCB/RCD) CONFIRMS TO IEC:61008 AND IS:12640-1		
81		ELEC-2.12.1	Supply of RCCB for earth leakage protection. Makes : As per list of recommended brands as category I.		
	MAT-03116	a	40A 2 Pole,30mA	1 No	3378
	MAT-03117	b	40A 2 Pole,100mA	1 No	3580
	MAT-03118	c	40A 4 Pole30mA	1 No	3719
	MAT-03119	d	40A 4 Pole ,100mA	1 No	3858
	MAT-03120	e	63A 2 Pole,30mA,	1 No	4175
	MAT-03121	f	63A 2 Pole,100mA	1 No	4111
	MAT-03122	g	63A 4 Pole,30mA	1 No	4301
	MAT-03123	h	63A 4 Pole,100mA	1 No	4782
82		ELEC-2.12.2	Supply of RCCB for earth leakage protection. Makes : As per list of recommended brands as category II		
	MAT-03124	a	40A 2 Pole,30mA	1 No	2846
	MAT-	b	40A 2 Pole,100mA	1 No	2910

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	03125				
	MAT-03126	c	40A 4 Pole30mA	1 No	3163
	MAT-03127	d	40A 4 Pole ,100mA	1 No	3289
	MAT-03128	e	63A 2 Pole,30mA,	1 No	3555
	MAT-03129	f	63A 2 Pole,100mA	1 No	3643
	MAT-03130	g	63A 4 Pole,30mA	1 No	3782
	MAT-03131	h	63A 4 Pole,100mA	1 No	3795
			RCBO CONFIRMS TO IEC:61009-1		
83		ELEC-2.12.3	Supply of .....RCBO for over load, short-circuit and earth leakage protection. Makes : As per list of recommended brands.		
	MAT-03132	a	40A 2 Pole,30mA	1 No	5756
	MAT-03133	b	40A 2 Pole,100mA	1 No	6287
	MAT-03134	c	40A 4 Pole30mA	1 No	6540
	MAT-03135	d	40A 4 Pole ,100mA	1 No	6920
	MAT-03136	e	63A 2 Pole,30mA,	1 No	6882
	MAT-03137	f	63A 2 Pole,100mA	1 No	7286
	MAT-03138	g	63A 4 Pole,30mA	1 No	7717
	MAT-03139	h	63A 4 Pole,100mA	1 No	7868

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-08761	i	Supply of MCB type Changeover switch 20A Double Pole 2 Way 400V AC suitable to fix on Din Channel		2277
		2.13	MCB DISTRIBUTION BOARDS (AS PER IS 8623; IS 13032; IEC 61439-3)		
			SPN DBs		
84		ELEC-2.13.1	Supply of .....Protection suitable for S.P out goings and for 1 No Incommer etc complete as per IS 8623; IS 13032; IEC 61439-3. Makes : As per list of recommended brands as category I.		
	MAT-03140	a	4 Way SPN DB with IP 30 , 4Nos	1 No	1107
	MAT-03141	b	8 Way SPN DB with IP 30, 8 Nos	1 No	1202
	MAT-03142	c	12 Way SPN DB with IP 30, 12 Nos	1 No	1455
	MAT-03143	d	4 Way SPN DB with IP 43, 4 Nos	1 No	1518
	MAT-03144	e	8 Way SPN DB with IP 43, 8 Nos	1 No	1645
	MAT-03145	f	12 Way SPN DB with IP 43, 12 Nos	1 No	1993
85		ELEC-2.13.2	Supply of .....Protection suitable for S.P out goings and for 1 No Incommer etc complete as per IS 8623; IS 13032; IEC 61439-3. Makes : As per list of recommended brands as category II.		
	MAT-03146	a	4 Way SPN DB with IP 30 , 4Nos	1 No	949
	MAT-03147	b	8 Way SPN DB with IP 30, 8 Nos	1 No	1012
	MAT-03148	c	12 Way SPN DB with IP 30, 12 Nos	1 No	1265
	MAT-03149	d	4 Way SPN DB with IP 43, 4 Nos	1 No	1328
	MAT-03150	e	8 Way SPN DB with IP 43, 8 Nos	1 No	1455
	MAT-03151	f	12 Way SPN DB with IP 43, 12 Nos	1 No	1708

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
86		ELEC-2.13.3	Supply of .....Protection suitable for S.P out goings and for 1 No Incommer etc complete as per IS 8623; IS 13032; IEC 61439-3. Makes : As per list of recommended brands as category III .		
	MAT-03152	a	4 Way SPN DB with IP 30 , 4Nos	1 No	822
	MAT-03153	b	8 Way SPN DB with IP 30, 8 Nos	1 No	886
	MAT-03154	c	12 Way SPN DB with IP 30, 12 Nos	1 No	1107
	MAT-03155	d	4 Way SPN DB with IP 43, 4 Nos	1 No	1189
	MAT-03156	e	8 Way SPN DB with IP 43, 8 Nos	1 No	1265
	MAT-03157	f	12 Way SPN DB with IP 43, 12 Nos	1 No	1518
			TPN DBs		
87		ELEC-2.13.4	Supply of Protection suitable for .....S.P. out goings and for 1 No 4 pole Incommer etc complete as per IS 8623; IS 13032; IEC 61439-3. Makes : As per list of recommended brands as category I.		
	MAT-03158	a	(8 +12) 4 Way TPN DB Horizontal with IP 30, 12 Nos	1 No	2151
	MAT-03159	b	(8 +18) 6 Way TPN DB Horizontal with IP 30, 18 Nos	1 No	3036
	MAT-03160	c	(8 +12) 4 Way TPN DB Horizontal with IP 43, 12 Nos	1 No	3416
	MAT-03161	d	(8 +18) 6 Way TPN DB Horizontal with IP 43, 18 Nos	1 No	4807
	MAT-03162	e	(8 +24) 8 Way TPN DB Horizontal with IP 43, 24 Nos	1 No	5440
88		ELEC-2.13.5	Supply of Protection suitable for .....S.P. out goings and for 1 No 4 pole Incommer etc complete as per IS 8623; IS 13032; IEC 61439-3. Makes : As per list of recommended brands as category II.		
	MAT-03163	a	(8 +12) 4 Way TPN DB Horizontal with IP 30, 12 Nos	1 No	1961

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03164	b	(8 +18) 6 Way TPN DB Horizontal with IP 30, 18 Nos	1 No	2720
	MAT-03165	c	(8 +12) 4 Way TPN DB Horizontal with IP 43, 12 Nos	1 No	3036
	MAT-03166	d	(8 +18) 6 Way TPN DB Horizontal with IP 43, 18 Nos	1 No	4175
	MAT-03167	e	(8 +24) 8 Way TPN DB Horizontal with IP 43, 24 Nos	1 No	4807
89		ELEC-2.13.6	Supply of Protection suitable for S.P. out goings and for 1 No 4 pole Incommer etc complete as per IS 8623; IS 13032; IEC 61439-3. Makes : As per list of recommended brands as category III.		
	MAT-03168	a	(8 +12) 4 Way TPN DB Horizontal with IP 30, 12 Nos	1 No	1771
	MAT-03169	b	(8 +18) 6 Way TPN DB Horizontal with IP 30, 18 Nos	1 No	2404
	MAT-03170	c	(8 +12) 4 Way TPN DB Horizontal with IP 43, 12 Nos	1 No	2340
	MAT-03171	d	(8 +18) 6 Way TPN DB Horizontal with IP 43, 18 Nos	1 No	3036
	MAT-03172	e	(8 +24) 8 Way TPN DB Horizontal with IP 43, 24 Nos	1 No	3542
			VTPN DBs		
90		ELEC-2.13.7	Supply of Protection suitable for TP/SP out goings and for 1 No 4 pole Incommer etc complete as per IS 8623; IS 13032; IEC 61439-3. Makes : As per list of recommended brands as category I .		
	MAT-03173	a	4 Way VTPN DB with IP 43	1 No	8766
	MAT-03174	b	6 Way VTPN DB with IP 43	1 No	10158
	MAT-03175	c	8 Way VTPN DB with IP 43	1 No	11271
91		ELEC-2.13.8	Supply of 7 Segment DB with IP 42 Protection with provision for FPMCB / Isolator / RCCB / RCBO as incomer, 3Nos DPMCB / Isolator / RCCB / RCBO as sub incomer and .....Nos SPMCB's as out going as per IS		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			8623; IS 13032; IEC 61439-3. Makes : As per list of recommended brands as category I		
	MAT-03176	a	4 Way TPN DB, 12 Nos	1 No	9045
	MAT-03177	b	8 Way TPN DB, 24 Nos	1 No	10310
92		ELEC-2.13.9	Supply of .....suitable for accomodating 125A / 160A 4 Pole MCCB as incomer and TP/SP MCBs as outgoing etc., as per IS 8623; IS 13032; IEC 61439-3. Makes : As per list of recommended brands as category I.		
	MAT-03178	a	4 Way VTPN DB with IP 43 Protection.	1 No	11410
	MAT-03179	b	8 Way VTPN DB with IP 43 Protection.	1 No	14332
93		ELEC-2.13.10	Supply of Protection suitable for TP/SP out goings and for 1 No 4 pole Incommer etc complete as per IS 8623; IS 13032; IEC 61439-3. . Makes : As per list of recommended brands as category II.		
	MAT-03180	a	4 Way VTPN DB with IP 43	1 No	7717
	MAT-03181	b	6 Way VTPN DB with IP 43	1 No	8223
	MAT-03182	c	8 Way VTPN DB with IP 43	1 No	9614
94		ELEC-2.13.11	Supply of 7 Segment with IP 42 Protection with provision for FPMCB / Isolator / RCCB / RCBO as incomer, 3Nos DPMCB / Isolator / RCCB / RCBO as sub incomer and .....Nos SPMCB's as out going. etc.,as per IS 8623; IS 13032; IEC 61439-3. Makes : As per list of recommended brands as category II.		
	MAT-03183	a	4 Way TPN DB,12 Nos	1 No	8096
	MAT-03184	b	8 Way TPN DB,24 Nos	1 No	9235
95		ELEC-2.13.12	Supply of .....suitable for accomodating 125A / 160A 4 Pole MCCB as incomer and TP/SP MCBs as outgoing etc., as per IS 8623; IS 13032; IEC 61439-3. Makes : As per list of recommended brands as category II.		
	MAT-	a	4 Way VTPN DB with IP 43 Protection.	1 No	9235

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	03185				
	MAT-03186	b	8 Way VTPN DB with IP 43 Protection.	1 No	11638
96		ELEC-2.13.13	Supply of Plug and Socket in SS enclosure. Makes : As per list of recommended brands as category I.		
	MAT-03187	a	20A SP	1 No	1247
	MAT-03188	b	20A TP	1 No	2360
	MAT-03189	c	32A TP	1 No	2783
97		ELEC-2.13.14	Supply of Plug and Socket in SS enclosures per IS 8623; IS 13032; IEC 61439-3. Makes : As per list of recommended brands as category II.		
	MAT-03190	a	20A SP	1 No	886
	MAT-03191	b	20A TP	1 No	1581
	MAT-03192	c	32A TP	1 No	2087
98		ELEC-2.13.15	Supply of 20A SP Plug and Socket in SS enclosure etc., as per IS 8623; IS 13032; IEC 61439-3. . Makes : As per list of recommended brands as category III.		
	MAT-03193	a	20A SP	1 No	665
	MAT-03194	b	20A TP	1 No	1265
	MAT-03195	c	32A TP	1 No	1771
99		ELEC-2.13.16	Supply of Enclosure with IP 20 Protection etc., complete as per IS 8623; IS 13032; IEC 61439-3. Makes : As per list of recommended brands as category I.		
	MAT-03196	a	SP	1 No	380
	MAT-	b	DP/TP/FP	1 No	506

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	03197				
100		ELEC-2.13.17	Supply of Enclosure with IP 20 Protection etc complete as per IS 8623; IS 13032; IEC 61439-3. Makes : As per list of recommended brands as category II.		
	MAT-03198	a	SP	1 No	291
	MAT-03199	b	DP/TP/FP	1 No	417
101		ELEC-2.13.18	Supply of Enclosure with IP 20 Protection. Makes : As per list of recommended brands as category III.		
	MAT-03200	a	SP	1 No	266
	MAT-03201	b	DP/TP/FP	1 No	392
			SECTION - 3		
		3.1	STREET LIGHT LUMINAIRES		
	MAT-03202	ELEC-3.1.1	deleted	1 No	
	MAT-03203	ELEC-3.1.2	deleted	1 No	
	MAT-03204	ELEC-3.1.3 a	Deleted	1 No	
	MAT-03205	ELEC-3.1.3 b	Deleted	1 No	
	MAT-03206	ELEC-3.1.3 c	Deleted	1 No	
	MAT-03207	ELEC-3.1.4a	Deleted	1 No	
	MAT-03208	ELEC-3.1.4 b	Deleted	1 No	
	MAT-03209	ELEC-3.1.4 c	Deleted	1 No	

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03210	ELEC-3.1.5 a	Deleted	1 No	
	MAT-03212	ELEC-3.1.6 a	Deleted	1 No	
	MAT-03214	ELEC-3.1.7 a	Deleted	1 No	
	MAT-03215	ELEC-3.1.7 b	Deleted	1 No	
		3.2	LED POST TOP LANTERN LUMINAIRES		
102	MAT-03218	ELEC-3.2.1	Supply and Transportation of 40W LED Post top lantern made with cast Alluminium with decorative opel polycarbonate diffuser with IP 65 protection etc., complete with all accessories Makes : As per list of recommended brands.	1 No	7820
103	MAT-03219	ELEC-3.2.2	Supply and Transportation of 25 W Post Top lantern made with high Pressure die cast alluminium bodywith polycarbonate / high impact Poly carbonate protector for optimal luminous flux ,IP66 suitable for vertical mounting of 76 mm dia.the luminaire shall have CCT 3000-4000K with internal surge protection of 4KV and External Surge Protection of 10 KV ,Pf>0.95 etc., Makes : As per list of recommended brands.	1 No	17480
104	MAT-03220	ELEC-3.2.3	Supply and Transportation of 35/40 W Post Top lantern made with high Pressure die cast alluminium bodywith polycarbonate / high impact PMMA protector for optimal luminous flux ,IP66 suitable for vertical mounting of 76 mm dia.the luminaire shall have CCT 3000-4000K with internal surge protection of 4KV and External Surge Protection of 10 KV ,Pf>0.95 etc., complete Makes : As per list of recommended brands.	1 No	21620
105	MAT-08762	ELEC-3.2.4	Supply and Transportation of 20 W LED Post top lantern made with cast Alluminium with decorative opel polycarbonate diffuser with IP 65 protection etc., complete with all accessories Makes : As per list of recommended brands.	1 No	4200
		3.3	ACCESSORIES FOR MV / SV / MH LUMINAIRES		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			COPPER BALLASTS		
	MAT-03221	ELEC-3.3.1 a	Deleted	1 No	
	MAT-03222	ELEC-3.3.1 b	Deleted	1 No	
	MAT-03223	ELEC-3.3.1 c	Deleted	1 No	
	MAT-03224	ELEC-3.3.1 d	Deleted	1 No	
	MAT-03225	ELEC-3.3.2 a	Deleted	1 No	
	MAT-03226	ELEC-3.3.2 b	Deleted	1 No	
	MAT-03227	ELEC-3.3.2 c	Deleted	1 No	
	MAT-03228	ELEC-3.3.2 d	Deleted	1 No	
			IGNITOR		
	MAT-03229	ELEC-3.3.3	Deleted	1 No	
			HPF CAPACITORS		
	MAT-03230	ELEC-3.3.4 a	Deleted	1 No	
	MAT-03231	ELEC-3.3.4 b	Deleted	1 No	
	MAT-03232	ELEC-3.3.4 c	Deleted	1 No	
	MAT-03233	ELEC-3.3.4 d	Deleted	1 No	
	MAT-03234	ELEC-3.3.4 e	Deleted	1 No	
	MAT-03235	ELEC-3.3.4 f	Deleted	1 No	
		3.4	LAMPS		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03236	ELEC-3.4.1 a	Deleted	1 No	
	MAT-03237	ELEC-3.4.1 b	Deleted	1 No	
	MAT-03238	ELEC-3.4.1 c	Deleted	1 No	
	MAT-03239	ELEC-3.4.1 d	Deleted	1 No	
	MAT-03240	ELEC-3.4.1 e	Deleted	1 No	
	MAT-03241	ELEC-3.4.1 f	Deleted	1 No	
	MAT-03242	ELEC-3.4.1 g	Deleted	1 No	
	MAT-03243	ELEC-3.4.1 h	Deleted	1 No	
	MAT-03244	ELEC-3.4.1 i	Deleted	1 No	
	MAT-03245	ELEC-3.4.2 a	Deleted	1 No	
	MAT-03246	ELEC-3.4.2 b	Deleted	1 No	
	MAT-03247	ELEC-3.4.2 c	Deleted	1 No	
	MAT-03248	ELEC-3.4.2 d	Deleted	1 No	
	MAT-03249	ELEC-3.4.2 e	Deleted	1 No	
	MAT-03250	ELEC-3.4.2 f	Deleted	1 No	
	MAT-03251	ELEC-3.4.2 g	Deleted	1 No	
	MAT-03252	ELEC-3.4.2 h	Deleted	1 No	
	MAT-03253	ELEC-3.4.2 i	Deleted	1 No	

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
		3.5	AUTOMATIC STREET LIGHT CONTROL SYSTEMS		
106		ELEC-3.5.1	Supply of Automatic Street Light Control System with Optical Micro Sensor, Low voltage / High voltage trip and reset, operating voltage 150 - 280V AC, 50 HZ with suitable SMC enclosure of IP 54 protection, MCBs and contactor suitable to control the load of of single phase load with necessary clamping arrangements. Makes : As per list of recommended brands.		
	MAT-03254	a	1 KW	1 No	9900
	MAT-03255	b	3 KW	1 No	12430
	MAT-03256	c	5 KW	1 No	12980
	MAT-03257	d	8 KW	1 No	14850
107		ELEC-3.5.2	Supply of Automatic Street Light Control System with Optical Micro Sensor, Low voltage / High voltage trip and reset, operating voltage 150 - 280V AC per Phase, 50 HZ with suitable SMC enclosure of IP 54 protection, MCBs and contactor suitable to control the load of of Three phase load with necessary clamping arrangements. Makes : As per list of recommended brands.		
	MAT-03258	a	5 KW	1 No	16280
	MAT-03259	b	8 KW	1 No	16830
	MAT-03260	c	12 KW	1 No	20350
	MAT-03261	d	25KW	1 No	32340
	MAT-03262	e	50KW	1 No	46200
108		ELEC-3.5.3	Supply and fixing of Automatic Street Light Controller with optical micro scanner low voltage/ High Voltage trip and reset operating voltage 150 - 280V AC, withstands up to 440V , 50 HZ with suitable ABS enclosure of IP 54 protection, suitable to control the load of 10A of single phase with		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			necessary arrangements etc complete Makes : As per list of recommended brands.		
	MAT-08763	a	SLASM-01-10A /equivalent (Dusk to Dawn)	1 No	3500
	MAT-08764	b	SLASM-02-10A /equivalent (Time setting after 4hr	1 No	4500
	MAT-08765	c	SLASM-03-10A /equivalent (Time setting 4hr,6Hr, 8Hr)	1 No	4200
		3.6	INTERNAL LUMINAIRES		
	MAT-03263	ELEC-3.6.1 a	Deleted	1 No	
	MAT-03264	ELEC-3.6.1 b	Deleted	1 No	
	MAT-03265	ELEC-3.6.2 a	Deleted	1 No	
	MAT-03266	ELEC-3.6.2 b	Deleted	1 No	
	MAT-03267	ELEC-3.6.3	Deleted	1 No	
			ACCESSORIES		
	MAT-03268	ELEC-3.6.4	Deleted	1 No	
	MAT-03269	ELEC-3.6.5	Deleted	1 No	
	MAT-03270	ELEC-3.6.6	Deleted	1 No	
	MAT-03271	ELEC-3.6.7	Deleted	1 No	
	MAT-03272	ELEC-3.6.8	Deleted	1 No	
	MAT-03273	ELEC-3.6.9	Deleted	1 No	

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03274	ELEC-3.6.10	Deleted	1 No	
	MAT-03275	ELEC-3.6.11	Deleted	1 No	
		3.7	FLOURSCENT TUBES / CFL LAMPS / LED BULBS		
	MAT-03276	ELEC-3.7.1	Deleted	1 No	
	MAT-03277	ELEC-3.7.2	Deleted	1 No	
	MAT-03278	ELEC-3.7.3	Deleted	1 No	
109		ELEC-3.7.4	Supply of Pin type CFL Lamp. Makes : As per list of recommended brands.		
	MAT-03279	a	9W	1 No	66
	MAT-03280	b	11W	1 No	77
	MAT-03281	c	13W	1 No	99
	MAT-03282	d	18W	1 No	105
	MAT-03283	e	36W	1 No	138
			LED BULBS		
110		ELEC-3.7.5	Supply of Lamp with input voltage 90 to 300V, Colour temperature 3000k - 6500k, Beam angle 170 - 220 degrees, B22 base, . Makes : As per list of recommended brands.		
	MAT-03284	a	0.5W LED	1 No	46
	MAT-03285	b	3.0W LED	1 No	101
	MAT-03286	c	5.0W LED	1 No	110

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03287	d	7.0W LED	1 No	129
111	MAT-03292	ELEC-3.7.6	Supply of 3W to 5W 3000K, AC 160-260V, LED Candel Lamp for shandliers. Makes : As per list of recommended brands.	1 No	184
112	MAT-08797	ELEC-3.7.7	Supply of 9W/10W LED Mirror Light fitting with decorative grey end caps, polycarbonate body and opal acrylic diffuser etc. Makes : As per list of recommended brands.	1 No	550
		3.8	LED LUMINAIRES INDOOR		
			DOWN LIGHTERS		
113		ELEC-3.8.1	Supply and fixing of..... heavy duty LED Down lighter, suitable for Recessed mounting made of pressure diecast alluminium body with powder coating, acrylic diffuser with Driver as per IS: 15885 (Part 2/ Sec 13) : 2012 , operating voltaGE-Venture ranGE-Venture of 150 to 265 Volts AC, P.F > 0.9, SurGE-Venture protection: 2KV, THD<10% with high power LED's having efficacy of > 100 lumins / watt, CCT: 3000K - 5700K, minimum CRI > 70, Luminaire performance complies to IS 10322 (Part 5 / Sec-3) etc., complete Makes : As per list of recommended brands as category I.		
	MAT-03294	a	6W	1 No	690
	MAT-03295	b	9W	1 No	874
	MAT-03296	c	12W	1 No	1265
	MAT-03297	d	15W	1 No	1357
	MAT-03298	e	18W	1 No	1449
114		ELEC-3.8.2	Supply and fixing of heavy duty LED Down lighter, suitable for Recessed / Surface mounting made of pressure diecast alluminium body with powder coating, acrylic diffuser with Driver as per IS: 15885 (Part 2/ Sec 13) : 2012 , operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10% with high power LED's having efficacy of > 90 lumins / watt, CCT: 3000K - 5700K, minimum CRI > 70, Luminaire performance complies to IS 10322 (Part 5 / Sec-3) etc., complete Makes : As per list of recommended brands as category II.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03299	a	6W	1 No	644
	MAT-03300	b	9W	1 No	819
	MAT-03301	c	12W	1 No	1187
	MAT-03302	d	15W	1 No	1274
	MAT-03303	e	18W	1 No	1362
115		ELEC-3.8.3	Supply and fixing of..... heavy duty LED Down lighter, suitable for Recessed / Surface mounting made of pressure diecast aluminium body with powder coating, acrylic diffuser with Driver as per IS: 15885 (Part 2/ Sec 13) : 2012 , operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10% with high power LED's having efficacy of > 80 lumens / watt, CCT: 3000K - 5700K, minimum CRI > 70, Luminaire performance complies to IS 10322 (Part 5 / Sec-3) etc., complete Makes : As per list of recommended brands as category III.		
	MAT-03304	a	6W	1 No	561
	MAT-03305	b	9W	1 No	722
	MAT-03306	c	12W	1 No	1021
	MAT-03307	d	15W	1 No	1099
	MAT-03308	e	18W	1 No	1182
			LED PANEL LIGHTS		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
116		ELEC-3.8.4	Supply and fixing of..... LED Slim Panel Round /Square suitable for Recessed / Surface mounting made of diecast alluminium body with powder coating, acrylic diffuser with Driver as per IS: 15885 (Part 2/ Sec 13) : 2012 , operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV,THD<10%, with high power LED's having efficacy of > 100 lumens/watt,CCT: 3000K - 5700K, minimum CRI>70, .etc., complete. Makes : As per list of recommended brands as category I.		
	MAT-03309	a	3W	1 No	267
	MAT-03310	b	6W	1 No	460
	MAT-03311	c	12W	1 No	764
	MAT-03312	d	15W	1 No	966
	MAT-03313	e	18W	1 No	1058
	MAT-03314	f	24W	1 No	1334
	MAT-03315	g	36W/40W (600mm x 600mm) square type	1 No	3266
117		ELEC-3.8.5	Supply and fixing of LED Slim Panel Round / Square suitable for Recessed / Surface mounting made of diecast alluminium body with powder coating, acrylic diffuser with Driver as per IS: 15885 (Part 2/ Sec 13) : 2012 , operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV,THD<10%, with high power LED's having efficacy of > 90 lumens/watt,CCT: 3000K - 5700K, minimum CRI>70, .etc., complete Makes : As per list of recommended brands as category II.		
	MAT-03316	a	3W	1 No	258
	MAT-03317	b	6W	1 No	451
	MAT-03318	c	12W	1 No	736
	MAT-	d	15W	1 No	943

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	03319				
	MAT-03320	e	18W	1 No	1012
	MAT-03321	f	24W	1 No	1242
	MAT-03322	g	36W/40W (600mm x 600mm) square type	1 No	3174
118		ELEC-3.8.6	Supply and fixing of..... LED Slim Panel Round / Square suitable for Recessed / Surface mounting made of diecast aluminium body with powder coating, acrylic diffuser with Driver as per IS: 15885 (Part 2/ Sec 13) : 2012 , operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of > 80 lumens/watt,CCT: 3000K - 5700K, minimum CRI>70, .etc., complete Makes : As per list of recommended brands as category III.		
	MAT-03323	a	3W	1 No	244
	MAT-03324	b	6W	1 No	423
	MAT-03325	c	12W	1 No	690
	MAT-03326	d	15W	1 No	920
	MAT-03327	e	18W	1 No	952
	MAT-03328	f	24W	1 No	1196
			COB DOWN LIGHTS		
119		ELEC-3.8.7	Supply and fixing of..... LED COB Down lighter, suitable for Recessed mounting made of pressure diecast aluminium housing with powder coating, with high efficiency reflector , operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10% with high power LED's having efficacy of > 120 lumens/watt,CCT: 3000K - 5700K, minimum CRI>70, .etc., complete Makes : As per list of recommended brands as category I.		
	MAT-03329	a	9 / 10 W	1 No	1242

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03330	b	15 / 16 W	1 No	1610
	MAT-03331	c	18 / 20 W	1 No	1794
	MAT-03332	d	30 W	1 No	2852
	MAT-03333	f	45 W	1 No	3128
120		ELEC-3.8.8	Supply and fixing of LED COB Down lighter, suitable for Recessed mounting made of pressurediecast aluminium housing with powder coating, with high efficiency reflector , operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10% with high power LED's having efficacy of > 120 lumens / watt, CCT: 3000K - 5700K, minimum CRI>70, etc., complete. Makes : As per list of recommended brands as category II.		
	MAT-03334	a	9 / 10 W	1 No	1196
	MAT-03335	b	15/ 16W	1 No	1518
	MAT-03336	c	18 / 20W	1 No	1702
	MAT-03337	d	30W	1 No	2760
			SPOT LIGHTS / WALL WASHERS		
121		ELEC-3.8.9	Supply and Transportation of LED COB Spot Light, suitable for Recessed mounting made of diecast aluminium body with powder coating, with Driver, operating voltage range of 150 to 265 Volts AC, CCT: 3000K - 5700K, minimum CRI>70, .etc., complete Makes : As per list of recommended brands as category I.		
	MAT-03338	a	2/3 W	1 No	414
	MAT-03339	b	5/6 W	1 No	506
	MAT-03340	c	7 W	1 No	966

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
122		ELEC-3.8.10	Supply and fixing of LED COB Spot Light, suitable for Recessed mounting made of diecast aluminium body with powder coating, with Driver, operating voltage range of 150 to 265 Volts AC, CCT: 3000K - 5700K, minimum CRI>70, .etc., complete Makes : As per list of recommended brands as category II.		
	MAT-03341	a	2/3 W	1 No	368
	MAT-03342	b	5/6 W	1 No	460
	MAT-03343	c	7 W	1 No	920
123		ELEC-3.8.11	Supply and fixing of..... LED single colour Wall washer, 1000mm length, IP65, made of diecast aluminium body with powder coating, with Driver, operating voltage range of 150 to 265 Volts AC, CCT: 3000-4000K , beam angle 25/45 degrees, minimum CRI>70, .etc., complete Makes : As per list of recommended brands as category I.		
	MAT-03344	a	18W	1 No	3772
	MAT-03345	b	24W	1 No	4416
124		ELEC-3.8.12	Supply and fixing of..... LED single colour Wall washer, 1000mm length, IP67, made of diecast aluminium body with powder coating, with Driver, operating voltage range of 150 to 265 Volts AC, CCT: 3000-4000K , beam angle 15/25/45/60 degrees, minimum CRI>70, .etc., complete Makes : As per list of recommended brands as category II.		
	MAT-03346	a	18W	1 No	3496
	MAT-03347	b	24W	1 No	4278
			LED BATTENS AND 2' x 2' LUMINARIES		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
125	MAT-03348	ELEC-3.8.13	Supply and fixing of 20-24W, not less than 1100mm length LED batten light with extruded aluminium housing and polycarbonate cover, input voltage AC 220 - 260 Volts with PF>0.9, Surge protection: 2KV,THD<15%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI>70, .etc., complete. Makes : As per list of recommended brands as category I.	1 No	736
126	MAT-03349	ELEC-3.8.14	Supply and fixing of 20-24W, not less than 1100mm length LED batten light with extruded aluminium housing and polycarbonate cover, input voltage AC 220 - 260 Volts with PF>0.9, Surge protection: 2KV,THD<15%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI>70, .etc., complete. Makes : As per list of recommended brands as category II.	1 No	662
127	MAT-03350	ELEC-3.8.15	Supply and fixing of 20-24W, not less than 1100mm length LED batten light with extruded aluminium housing and polycarbonate cover, input voltage AC 220 - 260 Volts with PF>0.9, Surge protection: 2KV,THD<15%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI>70, .etc., complete. Makes : As per list of recommended brands as category III.	1 No	552
128	MAT-03351	ELEC-3.8.16	Supply and fixing of 20W,2000 lumens T8, , not less than 1100 mm length LED retrofit tube light with aluminium anodised body, input voltage AC 220 - 260 Volts with PF>0.9, Surge protection: 2KV,THD<10%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI>70, .etc., complete. as per IS 10322 (Part 5/ Sec 1)..2012 Makes : As per list of recommended brands as category I.	1 No	653

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
129	MAT-03352	ELEC-3.8.17	Supply and fixing of 20W,1900 lumens T8,not less than 1100mm length LED retrofit tube light with aluminium anodised body, input voltage AC 220 - 260 Volts with PF>0.9, Surge protection: 2KV,THD<10%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI>70, .etc., complete as per IS 10322 (Part 5/ Sec 1)..2012 Makes : As per list of recommended brands as category II.	1 No	598
130	MAT-03353	ELEC-3.8.18	Supply of not less than 1100mm length,Box type powder coated tube light luminaire with necessary wiring suitable for fixing 2 Nos retrofit T8 LED tubes but without tube and choke. Makes : As per list of recommended brands.	1 No	267
131	MAT-03354	ELEC-3.8.19	Supply of not less than 1100mm length,Box type powder coated tube light luminaire with necessary wiring suitable for fixing 1 No retrofit T8 LED tube but without tube and choke. Makes : As per list of recommended brands.	1 No	230
132		ELEC-3.8.20	Supply, transportation and fixing of Recessed / Surface mounting 2' x 2' (600x600 mm) LED luminaire made of CRCA sheet housing with powder coated with acrylic diffuser, Constant current Driver as per IS: 15885 (Part 2/ Sec 13) : 2012 , With System lumen output \geq 3200lm operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of > 100 lumens / watt, CCT: 3000K - 5700K, minimum CRI>70, .etc.,, complete. Makes : As per list of recommended brands as category I.		
	MAT-03355	a	36 W	1 No	3220
	MAT-03356	b	45 W	1 No	3588
133		ELEC-3.8.21	Supply, transportation and fixing of Recessed / Surface mounting 2' x 2' (600x600 mm)LED luminaire made of CRCA sheet housing with powder coated with acrylic diffuser, Constant current out put of Driver as per IS: 15885 (Part 2/ Sec 13) : 2012 operating voltage range of 150 to 265 Volts AC, Power factor > 0.9 high power LEDs having efficacy of > 90 lumens/watt, junction temperature less than 85 degrees centigrade and THD is less than 10% etc., complete. Makes : As per list of recommended brands as category II.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03357	a	36 W	1 No	3036
	MAT-03358	b	45 W	1 No	3404
134	MAT-03359	ELEC-3.8.22	Supply of 10W LED Bulk head fitting with Pressure die cast alluminum with opal diffuser with IP 65 Protection etc., complete., Makes : As per list of recommended brands as category I.	1 No	1012
135		ELEC-3.8.22	Supply, Transportation and Fixing of .....W, 1100mm length Linear Profile LED Luminaire recessed/surface mounted with Aluminum extrusion, powder coated cover, input voltage AC 90-270 Volts with PF>0.95, with high power LEDs having efficacy of ≥ 100 lumens / watt, System efficacy >95 lm/W, surge protection: 2KV, THD<15%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI>70, .etc., complete including fixing of 23W Linear light duly recessed in the ceiling/surface mounted by hanging from ceiling with necessary mounting arrangements, jointing kit, connecting wire leads etc., and all accessories, giving connections and all labour charges etc., complete. Makes : As per list of recommended brands.		
	MAT-08766	a	20/25W	1 No	3465
	MAT-08767	b	40W	1 No	5940
			LED STREET LIGHTS		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
136		ELEC-3.8.23	Supply and transportation of LED Street light Luminaire made of pressure diecast aluminium body with powder coated, having protective toughened glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's having System efficacy > 100 lm/W and junction temperature < 70°C, with Ingress protection IP66, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), Driver surge protection 4KV, In house additional Surge protection 10 KV with optics distribution, THD<10% at 110 Volts AC, driver efficiency >90%, CCT: 3000K - 5700K, minimum CRI>70, etc., complete. Makes : As per list of recommended brands as category I.		
	MAT-03360	a	20W	1 No	1822
	MAT-03361	b	30W	1 No	2852
	MAT-03362	c	45W	1 No	4324
	MAT-03363	d	60W	1 No	5428
137		ELEC-3.8.24	Supply and transportation of LED Street light Luminaire made of pressure diecast aluminium body with powder coated, having protective toughened glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's System efficacy >110 lm/W and junction temperature < 70°C, with Ingress protection IP66, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), Driver surge protection 4KV, In house additional Surge protection 10 KV with optics distribution, THD<10% at 110 Volts AC, driver efficiency >90%, CCT: 3000K - 5700K, minimum CRI>70, etc., complete. Makes : As per list of recommended brands as category I.		
	MAT-03364	a	90W	1 No	8464
	MAT-03365	b	120W	1 No	10948
	MAT-03366	c	150W	1 No	12650

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03367	d	180W	1 No	14260
	MAT-03368	e	210W	1 No	18400
138		ELEC-3.8.25	Supply and transportation of .....LED Street light Luminaire made of pressure diecast aluminium body with powder coated, having protective toughened glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's System efficacy >100lm/W and junction temperature < 70°C, with Ingress protection IP65, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), Driver surge protection 4KV, In house additional Surge protection ≥ 10KV with optics distribution, THD<10% at 110 Volts AC, driver efficiency >90%, CCT: 3000K - 5700K, minimum CRI>70, etc., complete, Makes : As per list of recommended brands as category II.		
	MAT-03369	a	20W	1 No	1702
	MAT-03370	b	30W	1 No	2650
	MAT-03371	c	45W	1 No	4140
	MAT-03372	d	60W	1 No	5152
	MAT-03373	e	90W	1 No	8004
	MAT-03374	f	120W	1 No	9660
	MAT-03375	g	150W	1 No	11592
	MAT-03376	h	180W	1 No	13248
	MAT-03377	i	210W	1 No	16146

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
139		ELEC-3.8.26	Supply and transportation of LED Street light Luminaire made of pressure diecast aluminium body with powder coated, having protective toughened glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's having System efficacy >90 lm/W and junction temperature < 70°C, with Ingress protection IP66, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), Driver surge protection 4KV, In house additional Surge protection ≥ 10KV with optics distribution Type II medium, THD<10% at 110 Volts AC, driver efficiency >90%, w, CCT: 3000K - 5700K, minimum CRI>70, etc., complete. Makes : As per list of recommended brands as category III.		
	MAT-03378	a	20W	1 No	1615
	MAT-03379	b	30W	1 No	2346
	MAT-03380	c	45W	1 No	3864
	MAT-03381	d	60W	1 No	4784
	MAT-03382	e	90W	1 No	7452
	MAT-03383	f	120W	1 No	8740
			FLOOD LIGHTS		
140		ELEC-3.8.27	Supply and transportation of LED Flood light Luminaire made of pressure diecast aluminium housing with powder coated, having protective toughened glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's System efficacy >100lm/W and junction temperature < 70°C, with Ingress protection IP66, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), IK05, Driver surge protection 4KV, In house additional Surge protection ≥ 10KV with wide/ Narrow beam optics, THD<10% at 110 Volts AC, driver efficiency >90%, , CCT: 3000K - 5700K, minimum CRI>70, etc., complete Makes : As per list of recommended brands as category I.		
	MAT-03384	a	50/60W	1 No	5382
	MAT-03385	b	90/100W	1 No	9522

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03386	c	120W	1 No	12337
	MAT-03387	d	150W	1 No	14490
	MAT-03388	e	200W	1 No	17388
	MAT-03389	f	250W	1 No	20286
	MAT-03390	g	300 W	1 No	24012
	MAT-03391	h	400W	1 No	27738
141		ELEC-3.8.28	Supply and transportation of LED Flood light Luminaire made of pressure diecast aluminium housing with powder coated, having protective toughened glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's System efficacy >100lm/W and junction temperature < 70°C, with Ingress protection IP66, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), IK05, Driver surge protection 4KV, In house additional Surge protection ≥ 10KV with wide/ Narrow beam optics, THD<10% at 110 Volts AC, driver efficiency >90%, , CCT: 3000K - 5700K, minimum CRI>70, etc., complete Makes : As per list of recommended brands as category II.		
	MAT-03392	a	50/60W	1 No	4802
	MAT-03393	b	90/100W	1 No	8694
	MAT-03394	c	120W	1 No	11178
	MAT-03395	d	150W	1 No	13248
	MAT-03396	e	200W	1 No	15732
			HIGH BAY LIGHTS		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
142		ELEC-3.8.29	Supply and transportation of LED High Bay Luminaire with high power COB LED made of pressure diecast aluminium housing with powder coated, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's having efficacy >100 lumines/watt, System efficacy >95lm/W and junction temperature < 70°C, with Ingress protection IP66, IK05, Driver surge protection 4KV, In house additional Surge protection ≥ 5KV with wide/ Narrow beam optics, THD<10% at 110 Volts AC, driver efficiency >90%, , CCT: 3000K - 5700K, minimum CRI>70, etc., complete Makes : As per list of recommended brands as category I.		
	MAT-03400	a	60W	1 No	7820
	MAT-03401	b	90W	1 No	10120
	MAT-03402	c	120W	1 No	11500
	MAT-03403	d	150W	1 No	13340
143		ELEC-3.8.30	Supply and transportation of LED High Bay Luminaire with high power COB LED made of pressure diecast aluminium housing with powder coated, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's having efficacy >100 lumines/watt, System efficacy >95lm/W and junction temperature < 70°C, with Ingress protection IP65, IK05, Driver surge protection 4KV, In house additional Surge protection ≥ 5KV with wide/ Narrow beam optics, THD<10% at 110 Volts AC, driver efficiency >90%, , CCT: 3000K - 5700K, minimum CRI>70, etc., complete Makes : As per list of recommended brands as category II.		
	MAT-03404	a	60W	1 No	7360
	MAT-03405	b	90W	1 No	9016
	MAT-03406	c	120W	1 No	10580
	MAT-03407	d	150W	1 No	12420

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
144		ELEC-3.8.31	Supply and transportation of LED Linear Wall washer of Size mm with high power LED's made of pressure diecast aluminium housing with powder coated, Supply Input voltage 120 - 270 V AC, leads to 24 V DC out put Voltage Drives with beam angle of 15/25/45/60 , P.F > 0.90, having efficacy >100 lumens/watt, System efficacy >95lm/W and junction temprature < 70°C, with Ingress protection IP66, IK05, with multi colour(Red or Yellow or Green or blue or White) etc., complete Makes : As per list of recommended brands.		
	MAT-05492	a	18 W , 1000 X 38 X 58 mm	1 No	8648
	MAT-05493	b	24 W , 1000 X 38 X 58 mm	1 No	9108
	MAT-05494	c	36 W , 1000 X 38 X 86 mm	1 No	10580
	MAT-05495	d	48 W , 1000 X 60 X 100 mm	1 No	12788
			RGB/RGBW LED Lighting		
145		ELEC-3.8.32	Supply and transportation of IP 66 RGBW LED Flood light Luminaries made of pressure die cast aluminium housing with powder coated, having protective toughened glass, Supply Input voltage 120 - 270 V AC, leads to 24 V DC output Voltage drives RGB LED's with light angle 60°, surge protection 6KV and junction temperature < 70°C, CRI>70,P.F>0.9,suitable for RGB DMX 512 controller etc., complete Makes : As per list of recommended brands.		
	MAT-05496	a	90W	1 No	23460
	MAT-05497	b	120W	1 No	26680
146		ELEC-3.8.33	Supply and transportation of RGB LED Linear Wall washer of Size mm with high power LED's made of pressure diecast aluminium housing with powder coated, Supply Input voltage 120 - 270 V AC, leads to 24 V DC out put Voltage Drives with beam angle of 15/25/45/60 , P.F > 0.90, having efficacy >100 lumens/watt, System efficacy >95lm/W and junction temprature < 70°C, with Ingress protection IP66, IK05,suitable for RGB DMX 512 controller etc., Makes : As per list of recommended brands.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-05498	a	18 W , 1000 X 38 X 58 mm	1 No	10304
	MAT-05499	b	24 W , 1000 X 38 X 58 mm	1 No	10856
	MAT-05500	c	36 W , 1000 X 38 X 58 mm	1 No	12144
	MAT-05501	d	48 W , 1000 X 60 X 100 mm	1 No	15364
147	MAT-05502	ELEC-3.8.34	Supply,transportation and installation of stand alone USB -DMX controller to control a wide variety of different DMX systems from RGB/RGbW ,including 1024 DMX channels,Input power 5-5.5 V DC 0.6 A with programmability on PC ,MAC,tablet,smart phone with micro SD card etc complete Makes : As per list of recommended brands.	1 No	78000
148	MAT-05503	ELEC-3.8.35	Supply,Transportation and Installation of DMX splitter/booster in the existing junction box with necessary connections. Makes : As per list of recommended brands.	1 No	16000
149	MAT-05504	ELEC-3.8.36	Supply,Transportation and Installation of DMX-DC-5A,Decoder in the existing junction box with necessary connections. Makes : As per list of recommended brands.	1 No	5200
150	MAT-05505	ELEC-3.8.37	Supply,Transportation and Installation of DC 24V input DMX Data Repeater in the existing junction box with necessary connections. Makes : As per list of recommended brands.	1 No	3900
151	MAT-05506	ELEC-3.8.38	Supply,Transportation and Installation of 350W,non-water proof,DC 24V Constant Voltage Power Supply(Driver) Unit in the existing junction box with necessary connections. Makes : As per list of recommended brands.	1 No	4900
152	MAT-05507	ELEC-3.8.39	Supply,Transportation and Installation of 350W,non-water proof,DC 12V,1.25 A Constant Voltage Power Supply(Driver) Unit in the existing junction box with necessary connections. Makes : As per list of recommended brands.	1 No	3200

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			LED DRIVERS		
153		ELEC-3.8.40	Supply and transportation of LED Driver as per IS 15885 (Part 2 / Sec 13)..2012 with input line voltage 120V-270V AC, 50Hz with surge protection more than 2.5 KV, IP20, suitable for LED indoor luminaire, with 2 Years Warranty. Makes : As per list of recommended brands.		
	MAT-03408	a	6/9 W	1 No	225
	MAT-03409	b	12/15/18/20 W	1 No	325
	MAT-03410	c	36 W	1 No	475
	MAT-03411	d	40/45 W	1 No	575
154		ELEC-3.8.41	Supply and transportation of LED Driver as per IS 15885 (Part 2 / Sec 13)..2012 with input line voltage 120V-270V AC, 50Hz with surge protection of 4.0 KV, IP20, suitable for LED street light fitting with 2 Years Warranty. Makes : As per list of recommended brands.		
	MAT-03412	a	15-30 W	1 No	350
	MAT-03413	b	45-90 W	1 No	800
	MAT-03414	c	120-180 W	1 No	1400
			SECTION - 4		
		4.1	U.G. CABLES		
155		ELEC-4.1.1	Supply and transportation of following XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I)/1554-I Makes : As per list of recommended brands as category I.		
	MAT-03415	a	4 sqmm X2 core	1 RM	106.00
	MAT-03416	b	6 sqmm X2 core	1 RM	129.00

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03417	c	10 sqmm X2 core	1 RM	156.00
	MAT-03418	d	6 SqmmX 4 core	1 RM	172.00
	MAT-03419	e	10SqmmX 4 core	1 RM	202.00
	MAT-03420	f	16 SqmmX 4 core	1 RM	238.00
	MAT-03421	g	25 SqmmX 3.5 core	1 RM	291.00
	MAT-03422	h	35SqmmX 3.5 core	1 RM	360.00
	MAT-03423	i	50 SqmmX 3.5 core	1 RM	477.00
	MAT-03424	j	70 SqmmX 3.5 core	1 RM	641.00
	MAT-03425	k	95 SqmmX 3.5 core	1 RM	800.00
	MAT-03426	l	120 SqmmX 3.5 core	1 RM	995.00
	MAT-03427	m	150 SqmmX 3.5 core	1 RM	1159.00
	MAT-03428	n	185 SqmmX 3.5 core	1 RM	1467.00
	MAT-03429	o	240 SqmmX 3.5 core	1 RM	1867.00
	MAT-03430	p	300SqmmX 3.5 core	1 RM	2272.00
	MAT-03431	q	400SqmmX 3.5 core	1 RM	2923.00
156		ELEC - 4.1.2	Supply and transportation of following XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I)/1554-I. Makes : As per list of recommended brands as category II.		
	MAT-03432	a	4 sqmm X2 core	1 RM	100.00

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03433	b	6 sqmm X2 core	1 RM	113.00
	MAT-03434	c	10 sqmm X2 core	1 RM	138.00
	MAT-03435	d	6 SqmmX 4 core	1 RM	145.00
	MAT-03436	e	10SqmmX 4 core	1 RM	158.00
	MAT-03437	f	16 SqmmX 4 core	1 RM	176.00
	MAT-03438	g	25 SqmmX 3.5 core	1 RM	225.00
	MAT-03439	h	35SqmmX 3.5 core	1 RM	263.00
	MAT-03440	i	50 SqmmX 3.5 core	1 RM	348.00
	MAT-03441	j	70 SqmmX 3.5 core	1 RM	448.00
	MAT-03442	k	95 SqmmX 3.5 core	1 RM	586.00
	MAT-03443	l	120 SqmmX 3.5 core	1 RM	720.00
	MAT-03444	m	150 SqmmX 3.5 core	1 RM	826.00
	MAT-03445	n	185 SqmmX 3.5 core	1 RM	989.00
	MAT-03446	o	240 SqmmX 3.5 core	1 RM	1252.00
	MAT-03447	p	300SqmmX 3.5 core	1 RM	1515.00
	MAT-03448	q	400SqmmX 3.5 core	1 RM	1965.00
			33 KV HT XLPE CABLES		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
157		ELEC-4.1.3	Supply and Transportation of XLPE insulated IS:7098/II/85 H.T.cable for working voltage 33 K.V. Earthed with Stranded Compacted Circular Aluminium Conductor Screened with Extruded Semi-conducting compound, XLPE Insulated Screened with extruded semi-conducting compound in combination with Copper Tape, cores laid up, inner sheath of Thermoplastic tape, galvanised flat steel strip armoured and overall Extruded PVC Type ST- 2 Outer Sheathed cable etc complete. Makes : As per list of recommended brands.		
	MAT-03449	a	3C X 95 Sqmm	1 RM	2435.00
	MAT-03450	b	3C X 120 Sqmm	1 RM	2673.00
	MAT-03451	c	3C X 150 Sqmm	1 RM	2952.00
	MAT-03452	d	3C X 185 Sqmm	1 RM	3270.00
	MAT-03453	e	3C X 240 Sqmm	1 RM	3727.00
	MAT-03454	f	3C X 300 Sqmm	1 RM	4209.00
	MAT-03455	g	3C X 400 Sqmm	1 RM	4897.00
			11 KV HT XLPE CABLES		
158		ELEC-4.1.4	Supply and Transportation of XLPE insulated IS:7098/II/85 H.T.cable for working voltage 11 K.V Earthed with Stranded Compacted Circular Aluminium Conductor Screened with Extruded Semi-conducting compound, XLPE Insulated Screened with extruded semi-conducting compound in combination with Copper Tape, cores laid up, inner sheath of Thermoplastic tape, galvanised flat steel strip armoured and overall Extruded PVC Type ST- 2 Outer Sheathed cable etc complete. Makes : As per list of recommended brands.		
	MAT-03456	a	3C X 35 Sqmm	1 RM	806.00
	MAT-03457	b	3C X 50 Sqmm	1 RM	925.00
	MAT-	c	3C X 70 Sqmm	1 RM	1100.00

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	03458				
	MAT-03459	d	3C X 95 Sqmm	1 RM	1316.00
	MAT-03460	e	3C X 120 Sqmm	1 RM	1519.00
	MAT-03461	f	3C X 150 Sqmm	1 RM	1702.00
	MAT-03462	g	3C X 185 Sqmm	1 RM	1989.00
	MAT-03463	h	3C X 240 Sqmm	1 RM	2394.00
	MAT-03464	i	3C X 300 Sqmm	1 RM	2839.00
	MAT-03465	j	3C X 400 Sqmm	1 RM	3467.00
			Un Armoured and Armoured Copper Control Cables		
159		ELEC-4.1.5	Supply and Transportation of XLPE/PVC insulated & PVC sheathed unarmoured control cables of 1.1 KV grade with copper conductor as per IS 7098 Part-I -1988 etc complete Makes : As per list of recommended brands.		
	MAT-03466	a	2C x 1.5 sq.mm	1 RM	118.00
	MAT-03467	b	3C x 1.5 sq.mm	1 RM	124.00
	MAT-03468	c	4C x 1.5 sq.mm	1 RM	145.00
	MAT-03469	d	5C x 1.5 sq.mm	1 RM	150.00
	MAT-03470	e	6C x 1.5 sq.mm	1 RM	171.00
	MAT-03471	f	8C x 1.5 sq.mm	1 RM	197.00
	MAT-03472	g	10C x 1.5 sq.mm	1 RM	249.00

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03473	h	12C x 1.5 sq.mm	1 RM	275.00
	MAT-03474	i	14C x 1.5 sq.mm	1 RM	307.00
	MAT-03475	j	19C x 1.5 sq.mm	1 RM	386.00
	MAT-03476	k	2C x 2.5 sq.mm	1 RM	131.00
	MAT-03477	l	3C x 2.5 sq.mm	1 RM	150.00
	MAT-03478	m	4C x 2.5 sq.mm	1 RM	176.00
	MAT-03479	n	5C x 2.5 sq.mm	1 RM	197.00
	MAT-03480	o	6C x 2.5 sq.mm	1 RM	275.00
	MAT-03481	p	8C x 2.5 sq.mm	1 RM	328.00
	MAT-03482	q	10C x 2.5 sq.mm	1 RM	380.00
	MAT-03483	r	12C x 2.5 sq.mm	1 RM	426.00
	MAT-03484	s	14C x 2.5 sq.mm	1 RM	478.00
	MAT-03485	t	19C x 2.5 sq.mm	1 RM	556.00
160		ELEC-4.1.5 A	Supply and Transportation of stranded/solid copper conductor XLPE/PVC insulated & PVC sheathed, unarmoured and Overall Shielded instrumentation/control cables of 1.1 KV grade with copper conductor as per IS 7098 Part-I -1988 etc., complete. Makes : As per list of recommended brands.		
		a	2 Core, 1.5 Sq.mm	1 RM	70
		b	4 Core, 1.0 Sq.mm	1 RM	118
161		ELEC-4.1.5 B	Supply, Laying, Termination of ISI Certified (for Signal & Field devices, Third Party Integration ect...) ATSC, PVC insulated, armored, Tinned		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Copper, twisted, shielded, PE insulated, Cable with proper ferrules, lugs and other necessary accessories. The spec shall meet the system manufacturer specifications including all charges complete etc as directed by Engineer In Charge/ departmental authorities. Makes : As per list of recommended brands.		
		a	2 Core 1.5 sq.mm	1 RM	65
		b	4 Core 1.5 sq.mm	1 RM	94
162		ELEC-4.1.5 C	Supply of Shielded unarmoured Cable, as per the survey done, Rate shall include required accessories, tools and tackles, transportation, material and labour etc., complete as instructed by Engineer In charge. The contractor should follow the safety measures inside the premises. Makes : As per list of recommended brands.		
		a	2 Core .75 sqmm	1 RM	94
		b	4 Core .75 sqmm	1 RM	126
		c	8 Core .75 sqmm	1 RM	176
163		ELEC-4.1.6	Supply and Transportation of XLPE/PVC insulated & PVC sheathed armoured cables of 1.1 KV grade with copper conductor as per IS 7098 Part-I -1988 etc complete. Makes : As per list of recommended brands.		
	MAT-03486	a	2Cx1.5 sq.mm	1 RM	124.00
	MAT-03487	b	2Cx2.5 sq.mm	1 RM	131.00
	MAT-03488	c	2C x 4 sq.mm	1 RM	164.00
	MAT-03489	d	2C x 6 sq.mm	1 RM	236.00
	MAT-03490	e	2C x 10 sq.mm	1 RM	328.00
	MAT-03491	f	2C x 16 sq.mm	1 RM	452.00
	MAT-03492	g	3C x 4 sq.mm	1 RM	207.00
	MAT-03493	h	3C x 6 sq.mm	1 RM	275.00

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03494	i	3C x 10 sq.mm	1 RM	343.00
	MAT-03495	j	3C x 16 sq.mm	1 RM	481.00
	MAT-03496	k	4C x 4 sq.mm	1 RM	288.00
	MAT-03497	l	4C x 6 sq.mm	1 RM	412.00
	MAT-03498	m	4C x 10 sq.mm	1 RM	618.00
	MAT-03499	n	4C x 16 sq.mm	1 RM	1028.00
	MAT-03500	o	4C x 25 sq.mm	1 RM	1649.00
	MAT-03501	p	4C x 35 sq.mm	1 RM	2199.00
	MAT-03502	q	4C x 50 sq.mm	1 RM	3160.00
	MAT-03503	r	4C x 70 sq.mm	1 RM	4809.00
			CABLE TERMINATIONS AND ACCESSORIES		
164		ELEC-4.1.7	Supply and Making heat shrinkable type indoor/ outdoor/straight through terminations/joint kit of approved make suitable for XLPE insulated 33 KV cable, with required components, preparation of cable ends, testing etc. as required of following sizes. Makes : As per list of recommended brands.		
			INDOOR		
	MAT-03504	a	3 Core 95/120/150/185 sq mm	Set	14611
	MAT-03505	b	3 core 240/300/400 sqmm	Set	20328
			OUTDOOR		
	MAT-03506	c	3 Core 95/120/150/185 sq mm	Set	20328
	MAT-	d	3 core 240/300/400 sqmm	Set	28587

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	03507				
			STRAIGHT THROUGH		
	MAT-03508	e	3 Core 95/120/150/185 sq mm	Set	41292
	MAT-03509	f	3 core 240/300/400 sqmm	Set	60349
165		ELEC-4.1.8	Supply and Making heat shrinkable type indoor /outdoor/straight through terminations/ joint kit of approved make suitable for XLPE insulated 11 KV cable, with required components, preparation of cable ends, testing etc. as required of following sizes. Makes : As per list of recommended brands.		
			INDOOR		
	MAT-03510	a	3 core 35/50 sqmm	Set	6353.00
	MAT-03511	b	3 core 70/95 sqmm	Set	9529.00
	MAT-03512	c	3 core 120/150/185 sqmm	Set	10800.00
	MAT-03513	d	3 core 240/300 sqmm	Set	11308.00
	MAT-03514	e	3 core 400/500 sqmm	Set	11943.00
			OUTDOOR		
	MAT-03515	f	3 core 35/50 sqmm	Set	10800.00
	MAT-03516	g	3 core 70/95 sqmm	Set	13341.00
	MAT-03517	h	3 core 120/150/185 sqmm	Set	14611.00
	MAT-03518	i	3 core 240/300 sqmm	Set	15882.00
	MAT-03519	j	3 core 400/500 sqmm	Set	17787.00
			STRAIGHT THROUGH		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03520	k	3 core 35/50 sqmm	Set	17152.00
	MAT-03521	l	3 core 70/95 sqmm	Set	20328.00
	MAT-03522	m	3 core 120/150/185 sqmm	Set	23505.00
	MAT-03523	n	3 core 240/300 sqmm	Set	25410.00
166		ELEC-4.1.9	Supply & Making heat shrinkable outdoor straight through joint for following size of PVC/ XLPE insulated aluminium conductor cable of 1.1 KV grade including cost of compound, sleeves etc. as required. Makes : As per list of recommended brands.		
	MAT-03524	a	3.5core x 25/35/50 sq.mm	Set	1906.00
	MAT-03525	b	3.5 corex 70/95/120 sq.mm	Set	3049.00
	MAT-03526	c	3.5 corex 150/185/240 sq.mm	Set	4447.00
	MAT-03527	d	3.5core x 300/400 sq.mm	Set	6988.00
	MAT-03528	e	4 corex 6/10/16 sq.mm	Set	1016.00
167		ELEC-4.1.10	Supply and making one end termination with heavy duty double compression brass gland as per BS 6121:2005 ,IP 66 complete, SIBG type, heavy duty Alluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size. Makes : As per list of recommended brands.		
	MAT-03529	a	3.5core x 25 sq.mm	Set	273.00
	MAT-03530	b	3.5core x 35 sq.mm	Set	363.00
	MAT-03531	c	3.5 corex 50 sq.mm	Set	424.00
	MAT-03532	d	3.5core x 70 sq.mm	Set	629.00
	MAT-	e	3.5core x 95 sq.mm	Set	721.00

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	03533				
	MAT-03534	f	3.5core x 120 sq.mm	Set	908.00
	MAT-03535	g	3.5core x 150 sq.mm	Set	1089.00
	MAT-03536	h	3.5core x 185 sq.mm	Set	1210.00
	MAT-03537	i	3.5core x 240sq.mm	Set	1815.00
	MAT-03538	j	3.5core x 300 sq.mm	Set	2178.00
	MAT-03539	k	3.5core x 400 sq.mm	Set	2904.00
	MAT-03540	l	4 core x 6/10/16 sq.mm	Set	278.00
168		ELEC-4.1.11	Supply and making one end termination with heavy duty single compression brass gland as per BS 6121:2005 ,IP 66 complete, SIBG type, heavy duty Alluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size. Makes : As per list of recommended brands.		
	MAT-03541	a	2 coreX4/6/10 sqmm	Set	79.00
	MAT-03542	b	4 coreX6/10/16 Sqmm	Set	103.00
	MAT-03543	c	3.5 coreX25 Sqmm	Set	121.00
	MAT-03544	d	3.5 coreX 35Sqmm	Set	182.00
	MAT-03545	e	3.5 coreX50 Sqmm	Set	194.00
	MAT-03546	f	3.5 coreX70 Sqmm	Set	212.00
	MAT-03547	g	3.5 coreX95 Sqmm	Set	254.00
	MAT-	h	3.5 coreX120 Sqmm	Set	303.00

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	03548				
	MAT-03549	i	3.5 coreX150 Sqmm	Set	545.00
	MAT-03550	j	3.5 coreX185 Sqmm	Set	666.00
	MAT-03551	k	3.5 coreX240 Sqmm	Set	787.00
	MAT-03552	l	3.5 coreX300Sqmm	Set	1089.00
	MAT-03553	m	3.5 coreX400Sqmm	Set	1452.00
169		ELEC-4.1.12	Supply and making end termination with heavy copper lugs (pin/ ring type) as per IS specification, duly crimped with crimping tool, PVC tape etc of following size Makes : As per list of recommended brands.		
	MAT-03554	a	up to 16 sqmm	each	25.00
	MAT-03555	b	25 Sqmm	each	34.00
	MAT-03556	c	35Sqmm	each	39.00
	MAT-03557	d	50 Sqmm	each	57.00
	MAT-03558	e	70 Sqmm	each	86.00
	MAT-03559	f	95 Sqmm	each	111.00
170		ELEC-4.1.13	Supply and making end termination with heavy Alluminium lugs (pin/ ring type) as per IS specification duly crimped with crimping tool, PVC tape etc of following size Makes : As per list of recommended brands.		
	MAT-03560	a	up to 16 sqmm	each	12.00
	MAT-03561	b	25 Sqmm	each	19.00
	MAT-	c	35Sqmm	each	24.00

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	03562				
	MAT-03563	d	50 Sqmm	each	31.00
	MAT-03564	e	70 Sqmm	each	36.00
	MAT-03565	f	95 Sqmm	each	43.00
	MAT-03566	g	120 Sqmm	each	48.00
	MAT-03567	h	150 Sqmm	each	55.00
	MAT-03568	i	185 Sqmm	each	67.00
	MAT-03569	j	240 Sqmm	each	97.00
	MAT-03570	k	300 Sqmm	each	121.00
	MAT-03571	l	400 Sqmm	each	206.00
		4.2	CABLE TRAYS		
171		ELEC-4.2.1	Supply, transportation & installation of following sizes of Hot Dipped Galvanized Iron perforated cable trays without cover, including horizontal and vertical bends, reducers tees, cross members and other accessories as required and duly suspended from the ceiling/Wall with suspenders etc., complete (NB: Add 30% Extra for perforated cable tray with cover)		
	MAT-03572	a	100mm x 50mm x 1.6mm	1 RM	339.00
	MAT-03573	b	150mm x 50mm x 1.6mm	1 RM	394.00
	MAT-03574	c	300mm x 50mm x 1.6mm	1 RM	726.00
	MAT-03575	d	450mm x 50mm x 2.0mm	1 RM	1053.00
	MAT-03576	e	600mm x 50mm x 2.0mm	1 RM	1205.00

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03577	f	300mm x 62.5mm x 2.0mm	1 RM	871.00
	MAT-03578	g	450mm x 62.5mm x 2.0mm	1 RM	1168.00
	MAT-03579	h	600mm x 62.5mm x 2.0mm	1 RM	1447.00
	MAT-03580	i	750mm x 62.5mm x 2.0mm	1 RM	1713.00
	MAT-03581	j	900mm x 62.5mm x 2.0mm	1 RM	2033.00
	MAT-03582	k	600mm x 75mm x 2.0mm	1 RM	1616.00
	MAT-03583	l	750mm x 75mm x 2.0mm	1 RM	1779.00
	MAT-03584	m	900mm x 75mm x 2.0mm	1 RM	2093.00
172		ELEC-4.2.2	Supply, transportation & installation of following sizes of Hot Dipped Galvanized Iron ladder type cable trays with rungs at span of 250 mm including horizontal and vertical bends, reducers tees, cross members and other accessories as required and duly suspended from the ceiling/wall with suspenders and etc., complete		
	MAT-03585	a	150mm x 50mm x 2.0mm	1 RM	496.00
	MAT-03586	b	300mm x 50mm x 2.0mm	1 RM	624.00
	MAT-03587	c	450mm x 50mm x 2.0mm	1 RM	823.00
	MAT-03588	d	600mm x 75mm x 2.0mm	1 RM	1016.00
	MAT-03589	e	750mm x 75mm x 2.0mm	1 RM	1077.00
	MAT-03590	f	900mm x 75mm x 2.0mm	1 RM	1144.00
		4.3	DOUBLE WALLED CORRUGATED HDPE PIPE		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
173		ELEC-4.3.1	Supply and Transportation of double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II. Makes : As per list of recommended brands.		
	MAT-03591	a	Outer dia 50mm and Inner dia 38mm	1 RM	109.00
	MAT-03592	b	Outer dia 63mm and Inner dia 51mm	1 RM	140.00
	MAT-03593	c	Outer dia 78mm and Inner dia 63mm	1 RM	169.00
	MAT-03594	d	Outer dia 90mm and Inner dia 76mm	1 RM	182.00
	MAT-03595	e	Outer dia 120mm and Inner dia 103.5mm	1 RM	285.00
	MAT-03596	f	Outer dia 160 mm and Inner dia 136 mm	1 RM	424.00
	MAT-03597	g	Outer dia 180 mm and Inner dia 152 mm	1 RM	557.00
	MAT-03598	h	Outer dia 200 mm and Inner dia 170 mm	1 RM	660.00
			SECTION - 5		
		5.1	FANS		
174	MAT-05508	ELEC-5.1.1	Supply of 48" (1200mm) Sweep 5 star rated BLDC (Brush less Direct Current) Ceiling Fan with double ball bearings, input voltage 230V AC converted to 24 V DC, power input not more than 32W , air delivery 210/220 cubic meter/min with remote and without Regulator. Makes : As per list of recommended brands.	1 No	3628
175	MAT-05509	ELEC-5.1.2	Supply of 56" (1400mm) Sweep 5 star rated BLDC (Brush less Direct Current) Ceiling Fan with double ball bearings, input voltage 230V AC converted to 24 V DC, power input not more than 32W , air delivery not less than 240 cubic meter/min with remote and without Regulator. Makes : As per list of recommended brands.	1 No	4233

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
176	MAT-03599	ELEC-5.1.3	Supply of 48" (1200mm) Sweep star rated Ceiling Fan , with double ball bearings, air delivery more than 200 cubic meter/min but without Regulator. Makes : As per list of recommended brands.	1 No	2532
177	MAT-03600	ELEC-5.1.4	Supply of 48" (1200mm) Sweep decorative Ceiling Fan, with double ball bearings with all accessories without Regulator. Makes : As per list of recommended brands.	1 No	2912
178	MAT-03602	ELEC-5.1.5	Supply of 56" (1400mm) Sweep Ceiling Fan , with double ball bearings, but without Regulator. Makes : As per list of recommended brands.	1 No	3039
179	MAT-03603	ELEC-5.1.6	Supply of 16" (400mm) Wall mounted Fan. Makes : As per list of recommended brands.	1 No	2912
180	MAT-03604	ELEC-5.1.7	Supply of 16" (400mm) Pedestal Fan. Makes : As per list of recommended brands.	1 No	3229
181	MAT-03605	ELEC-5.1.8	Supply of 18" (450mm) Wall mounting / Pedestal Air Circulators. Makes : As per list of recommended brands.	1 No	6837
182	MAT-03606	ELEC-5.1.9	Supply of 24" (600mm) Wall mounting / Pedestal Air Circulators. Makes : As per list of recommended brands.	1 No	8230
183	MAT-03607	ELEC-5.1.10	Supply of 12" (300mm) Cabin fan. Makes : As per list of recommended brands.	1 No	2152
184	MAT-03608	ELEC-5.1.11	Supply of 12" (300mm) Light duty exhaust fan with metallic blades and wire guard etc complete. Makes : As per list of recommended brands.	1 No	1836
185	MAT-03609	ELEC-5.1.12	Supply of 9" (225mm), Light duty exhaust fan with double ball bearing and wire guard etc complete. Makes : As per list of recommended brands.	1 No	1634
186	MAT-03610	ELEC-5.1.13	Supply of 12" (300mm) ISI, 900 RPM Heavy duty exhaust fan with metallic blades with Mark. Makes : As per list of recommended brands.	1 No	3482

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
187	MAT-03611	ELEC-5.1.14	Supply of 15" (375mm) ISI, 900 RPM Heavy duty exhaust fan with metallic blades with Mark. Makes : As per list of recommended brands.	1 No	4052
188	MAT-03612	ELEC-5.1.15	Supply of 18" (450mm) ISI, 900 RPM Heavy duty exhaust fan with metallic blades with Mark. Makes : As per list of recommended brands.	1 No	5191
		5.2	WATER HEATERS (Conventional & Solar)		
189		ELEC-5.2.1	Supply, Transportation and fixing of storage / Pressure type Vertical / Horizontal 230/250V single phase 2000watts ISI mark 5 Star rated water heater with SS tank and ABS plastic body of capacity to withstand up to 6.5 bar of water pressure including all standard accessories and dead weight pressure reducing valve on out let side, including cost of 2 Nos nylon / PVC / Metallic hose pipe, testing and all labour charges etc., complete. Makes : As per list of recommended brands.		
	MAT-03613	a	15 Ltrs	1 No	11600
	MAT-03614	b	25 Ltrs	1 No	13800
190		ELEC-5.2.2	Supply, Transportation, erection and Commissioning of MNRE approved and confirming to IS 12933 P-1,2,3&5..... Tube Collector type Solar Water heating System with temperature application of 60 degrees with Stain less steel - 304L grade inner tank with PUF Insulation and Alluminum Cladding for Outer Cover, Suitable EPDM rubber pipe connection from Collector to Solar Tank with electrical Heating back up etc., with 3 years Guarantee for Solar system and additional 2 years warranty. Makes : As per list of recommended brands.		
	MAT-03615	a	250 LPD	1 No	55660
	MAT-03616	b	375LPD	1 No	77050
	MAT-03617	c	500 LPD	1 No	87400
	MAT-03618	d	1000 LPD	1 No	170200

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
191		ELEC-5.2.3	Supply, Transportation, erection and Commissioning of MNRE approved and confirming to IS 12933 P-1,2,3&5..... Flate plate Collector type Solar Water heating System with temperature application of 60 degrees with Stain less steel - 304L grade inner tank with PUF Insulation and Alluminum Cladding for Outer Cover, Suitable EPDM rubber pipe connection from Collector to Solar Tank with electrical Heating back up etc., with 3 years Guarantee for Solar system and additional 2 years warranty. Makes : As per list of recommended brands.		
	MAT-03619	a	250 LPD	1 No	59800
	MAT-03620	b	375 LPD	1 No	82800
	MAT-03621	c	500 LPD	1 No	96025
	MAT-03622	d	1000 LPD	1 No	189750
			HEAT PUMP		
192		ELEC-5.2.4	Supply, Transportation and fixing of Energy Efficient Heat pump(Hybrid) water heater of Mono block storage / type Vertical / 230/250V single phase 50 Hz rated water heater with SS tank coated with Enamel and stain less body with IP X 4 water Proff grade of capacity Mono Block unit to withstand up to 0.8 - 1.0 MPa bar of water pressure including 2 Kw Heating element and Auto Defrosting and with 50 MM Puf insulation with all standard accessories and dead weight pressure reducing valve on out let side, including cost of CPVC Piping / Metallic hose pipe, testing and all labour charges etc., complete. Makes : As per list of recommended brands.		
	MAT-03623	a	200 Ltr	1 No	125580
	MAT-03624	b	300 Ltr	1 No	159390
193		ELEC-5.2.5	Supply, Transportation and fixing of Energy Efficient Heat pump(Hybrid) water heater of split type storage / type Vertical / 230/250V single phase 50 Hz rated water heater with SS tank coated with Enamel and prepainted steel body with IP X 4 water Proff grade of .....capacity Mono Block unit to withstand up to 0.8 - 1.0 MPa bar of water pressure including 2 Kw Heating element and Auto Defrosting and with 50 MM Puf insulation with all standard accessories and dead weight pressure reducing valve on out let side, including cost of CPVC Piping / Metallic hose pipe, testing and all		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			labour charges etc., complete. Makes : As per list of recommended brands.		
	MAT-03625	a	400 Ltr	1 No	154675
	MAT-03626	b	500 Ltr	1 No	189336
		5.3	ACCESSORIES FOR WATER HEATERS		
194		ELEC-5.3.1	Supply and fixing of stem type ISI marked (IS 3017 / 85) snap action adjustable thermostat storage water heater including making connection testing etc. as required.		
	MAT-03627	a	11" stem thermostat	1 No	230
	MAT-03628	b	7" stem thermostat	1 No	206
195	MAT-03629	ELEC-5.3.2	Supply and fixing of stem type, ISI marked, push to reset type auto thermal cut off and rated at 20 A 250 V including testing etc. as required.	1 No	273
196		ELEC-5.3.3	Supply and fixing of ISI marked (IS:4159) marked copper sheathed,nickle plated, mineral filled heating element including making connection testing etc as required		
	MAT-03630	a	3.0 KW	1 No	787
	MAT-03631	b	2.0 KW	1 No	750
197		ELEC-5.3.4	Supply and fixing of twin ceramic catridge, shock and hard water proof heating element including making connecton testing etc as required		
	MAT-03632	a	3.0 KW	1 No	908
	MAT-03633	b	2.0 KW	1 No	787

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
198		ELEC-5.3.5	Supply and fixing of base plate assembly with neoprene rubber gasket, inlet socket with inbuilt NRV/ PRV and drain out system and outlet socket pipe, fusible plug assembly, mounting hardwares complete etc. as required.		
	MAT-03634	a	15 Ltr. To 50 Ltr. Capacity SWH	1 No	1694
199	MAT-03635	ELEC-5.3.5	Supply and fixing of heavy duty C.P. connection for storage water heater for inlet and outlet of length 300-600 mm including the cost of nuts, washers etc as required.	1 set	303
200	MAT-03636	ELEC-5.3.6	Charges for brass welding of inner copper tank for storage water heater including opening, refixing, testing etc. as required	job	484
201	MAT-03637	ELEC-5.3.7	Charges for descaling of storage water heater including required chemical, opening, refixing, testing as complete	job	363
202	MAT-03638	ELEC-5.3.8	Charges for Fixing of storage water heater including four nos. rag bolts of suitable size, supply & making heavy gauge inlet, outlet C.P. connection, testing, carrying from store to site, etc. as required	job	787
		5.4	PUMPSETS		
			SINGLE PHASE SUBMERSIBLE MOTOR PUMP SETS		
203		ELEC-5.4.1	Supply and Transportation of .....5star rated submersible motor pumpset, confirming to IS 8034 and motor confirming to IS 9283 with water proof winding, Pump shall be suitable for various delivery head and discharge with stainless steel shaft. Motor suitable for working on 240V ± 10% , SinglePhase 50 Hz AC supply, etc complete for 4" Bore well. Makes : As per list of recommended brands as category I.		
	MAT-03639	a	0.75HP 8 Stage	1 No	15565
	MAT-03640	b	1.00HP 10 Stage	1 No	17820
	MAT-03641	c	1.00HP 15 Stage	1 No	18370

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03642	d	1.50HP 21 Stage	1 No	22275
	MAT-03643	e	2.00HP 25 Stage	1 No	26730
		f			
204		ELEC-5.4.2	Supply and Transportation of .....5star rated submersible motor pumpset, confirming to IS 8034 and motor confirming to IS 9283 with water proof winding,Pump shall be suitable for various delivery head and discharge with stainless steel shaft.Motor suitable for working on 240V \pm 10% , SinglePhase 50 Hz AC supply,etc complete for 4" Bore well. Makes : As per list of recommended brands as category II.		
	MAT-03644	a	0.75HP 8 Stage	1 No	13970
	MAT-03645	b	1.00HP 10 Stage	1 No	15950
	MAT-03646	c	1.00HP 15 Stage	1 No	16500
	MAT-03647	d	1.50HP 21 Stage	1 No	20020
	MAT-03648	e	2.00HP 25 Stage	1 No	24035
		f			
			THREE PHASE SUBMERSIBLE MOTOR PUMP SETS.		
205		ELEC-5.4.3	Supply and Transportation of .....5star rated submersible motor pumpset, confirming to IS 8034 and motor confirming to IS 9283 with water proof winding,Pump shall be suitable for various delivery head and discharge with stainless steel shaft.Motor suitable for working on 415V \pm 10% , Three Phase 50 Hz AC supply,etc complete for 4" Bore well. Makes : As per list of recommended brands as category I.		
	MAT-03649	a	3.00HP 15Stage	1 No	21670
	MAT-03650	b	4.00HP 20Stage	1 No	25300
	MAT-03651	c	5.00HP 25Stage	1 No	29920

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
206		ELEC-5.4.4	Supply and Transportation of .....5star rated submersible motor pumpset, confirming to IS 8034 and motor confirming to IS 9283 with water proof winding,Pump shall be suitable for various delivery head and discharge with stainless steel shaft.Motor suitable for working on 415V \pm 10% , Three Phase 50 Hz AC supply,etc complete for 4" Bore well. Makes : As per list of recommended brands as category II.		
	MAT-03652	a	3.00HP 15Stage	1 No	20350
	MAT-03653	b	4.00HP 20Stage	1 No	23760
	MAT-03654	c	5.00HP 25Stage	1 No	28160
207		ELEC-5.4.5	Supply and Transportation of .....5star rated submersible motor pumpset, confirming to IS 8034 and motor confirming to IS 9283 with water proof winding,Pump shall be suitable for various delivery head and discharge with stainless steel shaft.Motor suitable for working on 415V \pm 10% , Three Phase 50 Hz AC supply,etc complete for 6" Bore well. Makes : As per list of recommended brands as category I.		
	MAT-03655	a	3.00HP 5-10 Stage	1 No	33000
	MAT-03656	b	5.00HP, 5-10Stage	1 No	37125
	MAT-03657	c	5.00HP, 12-16 Stage	1 No	42350
	MAT-03658	d	7.50HP, 5-10 Stage	1 No	41690
	MAT-03659	e	7.50HP, 12-16 Stage	1 No	46200
	MAT-03660	f	7.50HP, 20-24 Stage	1 No	47300
	MAT-03661	g	10HP, 5-10 Stage	1 No	48950
	MAT-03662	h	10HP, 12-16 Stage	1 No	50600
	MAT-03663	i	10HP, 20-24 Stage	1 No	57200

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03664	j	12.5HP, 8-12 Stage	1 No	50600
	MAT-03665	k	12.5HP, 16-24 Stage	1 No	59400
	MAT-03666	l	15HP, 8-12 Stage	1 No	63690
	MAT-03667	m	15HP, 16-24 Stage	1 No	65780
	MAT-03668	n	20HP 10-20 Stage	1 No	76450
	MAT-03669	o	20HP 30-40 Stage	1 No	79750
	MAT-05510	p	25HP 20-25 Stage	1 No	86900
208		ELEC-5.4.6	Supply and Transportation of .....5star rated submersible motor pumpset, confirming to IS 8034 and motor confirming to IS 9283 with water proof winding,Pump shall be suitable for various delivery head and discharge with stainless steel shaft.Motor suitable for working on 415V \pm 10% , Three Phase 50 Hz AC supply,etc complete for 6" Bore well. Makes : As per list of recommended brands as category II.		
	MAT-03670	a	3.00HP 5-10 Stage	1 No	29700
	MAT-03671	b	5.00HP, 5-10Stage	1 No	33330
	MAT-03672	c	5.00HP, 12-16 Stage	1 No	38115
	MAT-03673	d	7.50HP, 5-10 Stage	1 No	37510
	MAT-03674	e	7.50HP, 12-16 Stage	1 No	41580
	MAT-03675	f	7.50HP, 20-24 Stage	1 No	42570
	MAT-03676	g	10HP, 5-10 Stage	1 No	44000
	MAT-03677	h	10HP, 12-16 Stage	1 No	45650

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03678	i	10HP, 20-24 Stage	1 No	51480
	MAT-03679	j	12.5HP, 8-12 Stage	1 No	45650
	MAT-03680	k	12.5HP, 16-24 Stage	1 No	53460
	MAT-03681	l	15HP, 8-12 Stage	1 No	57310
	MAT-03682	m	15HP, 16-24 Stage	1 No	59180
	MAT-03683	n	20HP 10-20 Stage	1 No	68750
	MAT-03684	o	20HP 30-40 Stage	1 No	71720
			SINGLE PHASE OPEN WELL SUBMERSIBLE MOTOR PUMP SETS		
209		ELEC-5.4.7	Supply and Transportation of .....Single phase open well submersible motor pumpset confirms to IS 14220 : 1994. Makes : As per list of recommended brands as category I.		
	MAT-03685	a	1.00HP	1 No	13552
	MAT-03686	b	1.50HP	1 No	15246
	MAT-03687	c	3.00HP	1 No	20812
210		ELEC-5.4.8	Supply and Transportation of .....Single phase open well ISI submersible motor pumpset confirms to IS 14220 : 1994. Makes : As per list of recommended brands as category II.		
	MAT-03688	a	1.00HP	1 No	12705
	MAT-03689	b	1.50HP	1 No	14520
	MAT-03690	c	3.00HP	1 No	19784
			THREE PHASE OPEN WELL SUBMERSIBLE PUMP SETS		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
211		ELEC-5.4.9	Supply and Transportation of Three phase open well ISI submersible motor pumpset confirms to IS 14220 : 1994. . Makes : As per list of recommended brands as category I.		
	MAT-03691	a	3.00HP(65x50)	1 No	20812
	MAT-03692	b	5.00HP(75x65)	1 No	26015
	MAT-03693	c	7.50HP(100x75)	1 No	30855
	MAT-03694	d	10.00HP(100x75)	1 No	39325
212		ELEC-5.4.10	Supply and Transportation of Three phase open well ISI submersible motor pumpset confirms to IS 14220 : 1994. Makes : As per list of recommended brands as category II. .		
	MAT-03695	a	3.00HP(65x50)	1 No	19965
	MAT-03696	b	5.00HP(75x65)	1 No	24442
	MAT-03697	c	7.50HP(100x75)	1 No	29040
	MAT-03698	d	10.00HP(100x75)	1 No	37510
			SINGLE PHASE MONO BLOCK MOTOR PUMP SETS.		
213		ELEC-5.4.11	Supply and Transportation of Single phase Mono block CI body motor pumpset confirms to IS 9079:2002 Makes : As per list of recommended brands as category I.		
	MAT-03699	a	0.5HP(25x25mm)	1 No	6050
	MAT-03700	b	1.0HP (25x25mm)	1 No	8652
	MAT-03701	c	1.5HP(32x25mm)	1 No	11616
214		ELEC-5.4.12	Supply and Transportation of Single phase Mono block CI body motor pumpset confirms to IS 9079:2002		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands as category II.		
	MAT-03702	a	0.5HP(25x25mm)	1 No	5687
	MAT-03703	b	1.0HP (25x25mm)	1 No	8228
	MAT-03704	c	1.5HP(32x25mm)	1 No	11072
215		ELEC-5.4.13	Supply and Transportation of..... Three phase ISI self priming Mono block IP44 motor pumpset . Makes : As per list of recommended brands as category I.		
	MAT-03705	a	2.00HP(40x40mm)	1 No	17182
	MAT-03706	b	3.0HP (50x50mm)	1 No	23232
	MAT-03707	c	5.00HP(80x80mm)	1 No	28072
216		ELEC-5.4.14	Supply and Transportation of..... Three phase ISI self priming Mono block IP44 motor pumpset . Makes : As per list of recommended brands as category II.		
	MAT-03708	a	2.00HP(40x40mm)	1 No	16335
	MAT-03709	b	3.0HP (50x50mm)	1 No	22143
	MAT-03710	c	5.00HP(80x80mm)	1 No	26862
			CONTROL PANEL BOARD FOR MOTOR PUMPSETS		
217	MAT-03711	ELEC-5.4.15	Fabrication , transportation and supply of suitable size panel board for single phase submersible motor up to 1.5 HP consisting of relay, Contactor, starting and running capacitors, Voltmeter, Ammeter, indicator lamps, MCB , on/off switch including supply and fixing of DOL starter.of complete., Makes : As per list of recommended brands.	1 No	5445
218	MAT-03712	ELEC-5.4.16	Fabrication , transportation and supply of suitable size panel board for single phase submersible motor 2 to 3HP consisting of relay, Contactor,	1 No	7260

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			starting and running capacitors, Voltmeter, Ammeter, indicator lamps, MCB , on/off switch including supply and fixing of DOL starter of complete.,. Makes : As per list of recommended brands.		
219		ELEC-5.4.17	Fabrication ,transportationand and supply of wall mounted control panel board of size 600x600x250mm made of 18 SWG CRCA sheet steel enclosure, 14 SWG mounting plate for cable entry fabricated , painted with two coats of Red oxide primer and two coats of Grey paint, lock and key arrangements two side lovures with weld mesh inside etc., complete consisting of the following equipment with all internal wiring using L&T / Finolex copper FRLS cables of suitable size and capacity and cable clamp etc complete for 3 phase motor pump sets. Makes : As per list of recommended brands .		
			Voltmeter ; 0-500 V 96x96mm size.		
			0 to 20 Amps / 0 50 Amps Ammeter (96x96mm size)-1No.		
			Single phase preventor of suitable range - 1No.		
			32 A TP, 10KA MCB. - 1No		
			Indication lamps (R-Y-B) with switch control - 1set		
			Voltmeter & Ammeter selector switch - 2 Nos		
			Supply and fixing of ISI Mark suitable capacitor		
220	MAT-03713	a	Upto 7.5 HP with DOL Starter of.	1 No	9680
221	MAT-03714	b	above 7.5 HP to 12.5 HP with Star- Delta Starter	1 No	16940
222	MAT-03715	c	From 15 HP up to 20 HP with Automatic Star Delta Starter	1 No	22385
223		ELEC-5.4.18	Supply & Fixing of D.O.L Starter 250V, Single phase, 50Hz. With SS encloser comprising of contactor with bi-metalic relay with necessary push buttons, etc., complete suitable for..... Makes : As per list of recommended brands.		
	MAT-03716	a	up to 3 HP	1 No	1150

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
224		ELEC-5.4.19	Supply & Fixing of D.O.L Starter 415V, 3 phase, 50Hz..enclosed with no volt coil and overload protection with necessary materials, etc., complete suitable for..... Makes : As per list of recommended brands.		
	MAT-03717	a	up to 3 HP	1 No	2057
	MAT-03718	b	5 to 7.5 HP	1 No	2299
	MAT-03719	c	10 HP	1 No	2541
225		ELEC-5.4.20	Supply & Fixing of Star-Delta Starter 415V, 3 phase, 50Hz.. enclosed with no volt coil, overload protection and single phase preventor , etc., complete suitable for Makes : As per list of recommended brands.		
	MAT-03720	a	12.50 to 15HP.	1 No	8228
	MAT-03721	b	25HP to 30HP	1 No	13576
			UPVC PIPES AND FITTINGS		
226		ELEC-5.4.21	Supply and delivery of for submersible motors with both ends square threaded, with rubber 'O' rings with smooth inner surface which can take the minimum load of 2100 to 4000 Kgs weights. Makes : As per list of recommended brands.		
	MAT-03722	a	42 / 32mm dia UPVC raising column pipe, with standing upto 20 Kgs / CM2 upto 200 Mts	1RM	157
	MAT-03723	b	48 / 40mm UPVC pipe with standing upto 20 Kgs / CM2 upto 200 Mts	1RM	194
	MAT-03724	c	60/50 mm UPVC pipe with standing upto 20 Kgs / CM2 upto 200 Mts	1RM	278
	MAT-03725	d	75/65 mm UPVC pipe with standing upto 20 Kgs / CM2 upto 200 Mts	1RM	375
	MAT-03726	e	88/80 mm UPVC pipe with standing upto 20 Kgs / CM2 upto 200 Mts	1RM	539
227	MAT-03727	ELEC-5.4.22	Supply and delivery of heavy duty couplings 42/32 mm UPVC pipe (27 Kgs / CM 2) capable of with standing up to 27 Kgs / CM2 above 200 mts and upto 300 mts	1NO	48

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
228	MAT-03728	ELEC-5.4.23	Supply and delivery of heavy duty couplings 48/40 mm UPVC pipe (27 Kgs / CM 2) capable of with standing up to 27 Kgs / CM2 above 200 mts and upto 300 mts	1NO	67
229	MAT-03729	ELEC-5.4.24	Supply and delivery of heavy duty couplings 60/50 mm UPVC pipe (27 Kgs / CM 2) capable of with standing up to 27 Kgs / CM2 above 200 mts and upto 300 mts	1NO	73
230	MAT-03730	ELEC-5.4.25	Supply and delivery off heavy duty couplings 75/65 mm UPVC pipe (27 Kgs / CM 2) capable of with standing up to 27 Kgs / CM2 above 200 mts and upto 300 mts	1NO	85
231	MAT-03731	ELEC-5.4.26	Supply and delivery of heavy duty couplings 88/80 mm UPVC pipe (27 Kgs / CM 2) capable of with standing up to 27 Kgs / CM2 above 200 mts and upto 300 mts	1NO	97
232		ELEC-5.4.27	Supply and Delivery of CI Adopter Assembly Makes : As per list of recommended brands.		
	MAT-03732	a	1/2" (48/40mm)	1NO	696
	MAT-03733	b	2" (60/50mm)	1NO	920
	MAT-03734	c	2 1/2" (75/65 mm)	1NO	1186
233		ELEC-5.4.28	Supply and Delivery of pump guard assembly with 2Nos SS Powder coated flange and 2Nos SS Rods with nut and colter pin. Makes : As per list of recommended brands.		
	MAT-03735	a	1 1/2" (48/40mm)	1NO	436
	MAT-03736	b	2" (60/50mm)	1NO	484
	MAT-03737	c	2 1/2" (75/65 mm)	1NO	666
	MAT-03738	d	3"(88/80 mm)	1NO	968
		5.5	AIR CONDITIONERS		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03743	5.5.1 a	Deleted		
	MAT-03744	5.5.1 b	Deleted		
	MAT-03747	5.5.1 c	Deleted		
	MAT-03748	5.5.1 d	Deleted		
			Inverter Split AC Unts (Cooling Only)		
234		ELEC-5.5.1 A	Supply of .....INVERTER Model Cool type split AC unit with high wall mounted Single Split indoor unit and outdoor condensing unit Hermetically sealed compressor suitable for operation on 230V, 50Hz, 1Phase AC supply capable of performing Heat cool dehumidifying air circulating and filtering with cooling and condensing units with 3 mts of copper piping, insulation kit and 4 mts of 4 core copper flexible chord with cordless remote control etc., dual barrier coating in order to protect coil form oxidigation.		
			1.5TR Split ACs		
		a	1.5 TR 3 Star capable of delivering 18000 BTU/hr and above with operating on refrigerant R-32/ R-410A. Makes : As per list of recommended brands as category I.	1 No	51175
		b	1.5 TR 3 Star capable of delivering 18000 BTU / hr and above with operating on refrigerant R-32 / R-410A Makes : As per list of recommended brands as category II.	1 No	47725
			2.0 TR Split ACs		
		c	2.0 TR 3 Star capable of delivering 24000 BTU/ hr and above with operating on refrigerant R-32 / R-410A. Makes : As per list of recommended brands as category I.	1 No	59225

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
		d	2.0 TR 3 Star capable of delivering 24000 BTU/ hr and above with operating on refrigerant R-32 / R-410A. Makes : As per list of recommended brands as category II.	1 No	52325
235		ELEC-5.5.2	Supply of .....INVERTER Model Cool type split AC unit with high wall mounted Single Split indoor unit and outdoor condensing unit Hermetically sealed compressor suitable for operation on 230V, 50Hz, 1Phase AC supply capable of performing Heat cool dehumidifying air circulating and filtering with cooling and condensing units with 3 mts of copper piping, insulation kit and 4 mts of 4 core copper flexible chord with cordless remote control etc., dual barrier coating in order to protect coil form oxidation.		
			0.8/ 1.0TR Split ACs		
	MAT-05511	a	0.8 TR 5 Star capable of delivering 9600 BTU/hr and above with operating on refrigerant R-32/ R-410A. Makes : As per list of recommended brands as category I.		43643
	MAT-05512	b	0.8 TR 5 Star capable of delivering 9600 BTU/hr and above with operating on refrigerant R-32/ R-410A Makes : As per list of recommended brands as category II.		37318
	MAT-05513	c	1.0 TR 5 Star capable of delivering 12000 BTU/hr and above with operating on refrigerant R-32/ R-410A Makes : As per list of recommended brands as category I.		48703
	MAT-05514	d	1.0 TR 5 Star capable of delivering 12000 BTU/hr and above with operating on refrigerant R-32/ R-410A Makes : As per list of recommended brands as category II.		42378
			1.5, 1.8 & 2.0TR Split ACs		
	MAT-03753	e	1.5 TR 5 star capable of delivering 18000 BTU/hr and above with operating on refrigerant R-32/ R-410A, COP not less than 4.5 Makes : As per list of recommended brands as category I.	1 No	61353
	MAT-03754	f	1.5 TR 5 star capable of delivering 18000 BTU/hr and above with operating on refrigerant R-32/ R-410A,COP not less than 4.5 Makes : As per list of recommended brands as category II.	1 No	58823

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-05515	g	1.8/1.9TR 5star capable of delivering 24000 BTU/hr and above with operating on refrigerant R-410A / R-32 Makes : As per list of recommended brands as category I.	1 No	72105
	MAT-05516	h	1.8/1.9 TR 5 Star capable of delivering 24000 BTU/hr and above with operating on refrigerant R-410A / R-32 Makes : As per list of recommended brands as category II.	1 No	68310
	MAT-03757	i	2.0/2.2 TR 5 star capable of delivering 24000 BTU/hr and above with operating on refrigerant R-410A / R-32 Makes : As per list of recommended brands as category I.	1 No	84123
	MAT-03758	j	2.0 TR 5 Star capable of delivering 24000 BTU/hr and above with operating on refrigerant R-410A / R-32 Makes : As per list of recommended brands as category II.	1 No	74635
			INVERTER CASSETTE TYPE AC UNITS		
236		ELEC-5.5.35	Supply of inverter Cassette type AC unit with ceiling mounted indoor unit and outdoor condensing unit Hermetically sealed compressor suitable for operation on AC supply capable of performing cooling dehumidifying air circulating and filtering with cooling and condensing units etc. complete with Wireless remote controller, without refrigerent piping and cable.		
	MAT-03759	a	1.5 TR 4 star Single Phase capable of delivering 18000 BTU / hr and above with operating on refrigerant R-32 / R-410A. Makes : As per list of recommended brands as category I.	1 No	92345
	MAT-03760	b	2.0TR 4 star Single Phase capable of delivering 24000 BTU / hr and above with operating on refrigerant R-32 / R-410A, . Makes : As per list of recommended brands as category I.	1 No	98670

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03761	c	2.0TR 4 star Single Phase capable of delivering 24000 BTU / hr and above with operating on refrigerant R-32 / R-410A. Makes : As per list of recommended brands as category II.	1 No	94875
	MAT-03762	d	3.5 TR 4 star Three Phase capable of delivering 42000 BTU / hr and above with operating on refrigerant R-32 / R-410A. Makes : As per list of recommended brands as category I.	1 No	174570
	MAT-03763	e	3.5 TR 4 star Three Phase capable of delivering 42000 BTU / hr and above with operating on refrigerant R-32 / R-410A. Makes : As per list of recommended brands as category II.	1 No	171408
	MAT-03764	f	4.0 TR 4 star Three Phase capable of delivering 48000 BTU / hr and above with operating on refrigerant R-32 / R-410A. Makes : As per list of recommended brands as category I.	1 No	179630
	MAT-03765	g	4.0 TR 4 star Three Phase capable of delivering 48000 BTU / hr and above with operating on refrigerant R-32 / R-410A. Makes : As per list of recommended brands as category II.	1 No	163185
			TOWER MODEL (Vertical) TYPE AC UNITS		
237		ELEC-5.5.36	Supply of Slim line / Tower Model/Verticool type .....split AC unit with indoor unit and floor mounted outdoor condensing unit with 3.5 mtr of Copper piping,insulation kit and 4 mtr of 4 core copper flexible card with refrigerant 410A/R32, Hermetically sealed Scroll compressor suitable for operation on AC supply capable of performing cooling dehumidifying air circulating and filtering with cooling and condensing units etc complete with cordless remote control		
	MAT-03766	a	3.0/ 3.3TR Three Phase capable of delivering 39600 BTU/hr and above with operating on refrigerant R-32/R-410. Makes : As per list of recommended brands.	1 No	115115

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03767	b	3.8 /4.0TR Three Phase capable of delivering 45600BTU/hr and above with operating on refrigerant R-32/R-410. Makes : As per list of recommended brands.	1 No	122073
	MAT-03768	c	4.5/ 4.6TR Three Phase capable of delivering 55200 BTU/hr and above with operating on refrigerant R-32/R-410. Makes : As per list of recommended brands.	1 No	132825
			HVAC SYSTEMS(VRV/VRF)		
238		ELEC-5.6.1	Supply of Air cooled VRV / VRF Air Conditioning system of having high COP complete with indoor and outdoor units duly charged with refrigerant R-410A and oil (first charge) suitable for cooling with individual controller, (suitable for 415 +/- 10% for outdoor and 230 +/- 5% for indoor units) and complete with all accessories, fittings etc. The units shall be BMS Compatible. Outdoor Units shall be fully inverter system complete with 100% scroll/rotary compressor and drive arrangement, initial charge of refrigerant (R-410A),refrigerant piping, drier, sight glass, dual pressure cutout all housed and supported properly in cabinet, air cooled condenser & its controller for following capacities. The VRV system shall be cooling only system. Makes : As per list of recommended brands as category I.		
			Type of Compressor : Hermetic sealed Inverter Scroll/Twin Rotary		
			ODU should deliver the required capacity at the ambient conditions of the place as per ISHRAE Standards.		
			The System should be highly energy efficient and COP shall not be less than 3.7. The outdoor units shall be suitable for operation between 5 and 53 deg C in cooling mode.		
			VRV/VRF OUT DOOR UNITS		
	MAT-03769	a	6 HP	1 No	200100
	MAT-03770	b	8 HP	1 No	218040
	MAT-03771	c	10 HP	1 No	270480
	MAT-03772	d	12 HP	1 No	303600

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03773	e	14 HP	1 No	343620
	MAT-03774	f	16 HP	1 No	391920.00
	MAT-03775	g	18 HP	1 No	430560.00
	MAT-03776	h	20 HP	1 No	473340.00
239		ELEC-5.6.2	<p>Supply of Air cooled VRV / VRF Air Conditioning system of having high COP complete with indoor and outdoor units duly charged with refrigerant R-410A and oil (first charge) suitable for cooling with individual controller, (suitable for 415 +/- 10% for outdoor and 230 +/- 5% for indoor units) and complete with all accessories, fittings etc. The units shall be BMS Compatible.</p> <p>Outdoor Units shall be fully inverter system complete with 100% scroll/rotary compressor and drive arrangement, initial charge of refrigerant (R-410A),refrigerant piping, drier, sight glass, dual pressure cutout all housed and supported properly in cabinet, air cooled condenser & its controller for following capacities. The VRV system shall be cooling only system.</p> <p>Makes : As per list of recommended brands as category II.</p>		
			Type of Compressor : Hermetic sealed Inverter Scroll/Twin Rotary		
			ODU should deliver the required capacity at the ambient conditions of the place as per ISHRAE Standards.		
			The System should be highly energy efficient and COP shall not be less than 3.7. The outdoor units shall be suitable for operation between 5 and 53 deg C in cooling mode.		
	MAT-05517	a	6 HP	1 No	184230
	MAT-05518	b	8 HP	1 No	200100
	MAT-05519	c	10 HP	1 No	248814
	MAT-05520	d	12 HP	1 No	279312

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-05521	e	14 HP	1 No	316020
	MAT-05522	f	16 HP	1 No	360180
	MAT-05523	g	18 HP	1 No	396060
	MAT-05524	h	20 HP	1 No	434700
240	MAT-03777	ELEC-5.6.3	Supply and Installation of Ref Nets for Double ODU connections	1 No	6072
241	MAT-03778	ELEC-5.6.4	Supply and Installation of Ref Nets for Triple ODU connections	1 No	11638
242	MAT-03779	ELEC-5.6.5	Supply and Installation of Multi Connection Joint / Ref Nets for IDUs	1 No	5313
			VRV/VRF INDOOR UNITS		
243		ELEC-5.6.6	Supply of Indoor Units consisting of 2/3/4 row deep DX coil, filter, blower section and drive arrangement, initial charge of refrigerant & oil, integral refrigerant piping, electronic expansion valve, electrical panel with controls and duly wired, thermostatic control. Makes : As per list of recommended brands as category I.		
			Type Of Units :Hi Wall type units		
	MAT-03780	a	1.0 TR	1 No	34788
	MAT-03781	b	1.6 TR	1 No	37950
	MAT-03782	c	2.0 TR	1 No	39215
244		ELEC-5.6.7	Supply of Indoor Units consisting of 2/3/4 row deep DX coil, filter, blower section and drive arrangement, initial charge of refrigerant & oil, integral refrigerant piping, electronic expansion valve, electrical panel with controls and duly wired, thermostatic control. Makes : As per list of recommended brands as category II.		
			Type Of Units :Hi Wall type units	1 No	
	MAT-05525	a	1.0 TR	1 No	34914

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-05526	b	1.6 TR	1 No	36053
	MAT-05527	c	2.0 TR	1 No	36053
245		ELEC-5.6.8	Supply of Indoor Units consisting of 2/3/4 row deep DX coil, filter, blower section and drive arrangement, initial charge of refrigerant & oil, integral refrigerant piping, electronic expansion valve, electrical panel with controls and duly wired, thermostatic control. Makes : As per list of recommended brands as category I.		
			Type Of Units :Roundflow/4 way Cassette units		
	MAT-03783	a	1.0 TR	1 No	46299
	MAT-03784	b	1.5/1.6 TR	1 No	51865
	MAT-03785	c	2.0 TR	1 No	53130
	MAT-03786	d	2.6 TR	1 No	58190
	MAT-03787	e	3.2 TR	1 No	59455
	MAT-03788	f	4.0 TR	1 No	60720
	MAT-03789	g	4.5 TR	1 No	63630
246		ELEC-5.6.9	Supply of Indoor Units consisting of 2/3/4 row deep DX coil, filter, blower section and drive arrangement, initial charge of refrigerant & oil, integral refrigerant piping, electronic expansion valve, electrical panel with controls and duly wired, thermostatic control. Makes : As per list of recommended brands as category II.		
			Type Of Units :Roundflow/4 way Cassette units		
	MAT-05528	a	1.0 TR	1 No	42504
	MAT-05529	b	1.5/1.6 TR	1 No	47691

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-05530	c	2.0 TR	1 No	48829
	MAT-05531	d	2.6 TR	1 No	53510
	MAT-05532	e	3.2 TR	1 No	54648
	MAT-05533	f	4.0 TR	1 No	55660
	MAT-05534	g	4.5 TR	1 No	58443
247		ELEC-5.6.10	Supply of Indoor Units consisting of 2/3/4 row deep DX coil, filter, blower section and drive arrangement, initial charge of refrigerant & oil, integral refrigerant piping, electronic expansion valve, electrical panel with controls and duly wired, thermostatic control. Makes : As per list of recommended brands as category I.		
			Type Of Units :High Static Duct Units		
	MAT-03790	a	3.2 TR	1 No	63630
	MAT-03791	b	4.0 TR	1 No	66792
	MAT-03792	c	4.5 TR	1 No	79063
	MAT-03793	d	5.5 TR	1 No	106513
	MAT-03794	e	6.3 TR	1 No	112206
	MAT-03795	f	8.0 TR	1 No	118278
248		ELEC-5.6.11	Supply of Indoor Units consisting of 2/3/4 row deep DX coil, filter, blower section and drive arrangement, initial charge of refrigerant & oil, integral refrigerant piping, electronic expansion valve, electrical panel with controls and duly wired, thermostatic control. Makes : As per list of recommended brands as category II.		
			Type Of Units :High Static Duct Units		
	MAT-05535	a	3.2 TR	1 No	58190

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-05536	b	4.0 TR	1 No	60720
	MAT-05537	c	4.5 TR	1 No	72738
	MAT-05538	d	5.5 TR	1 No	97405
	MAT-05539	e	6.3 TR	1 No	102465
	MAT-05540	f	8.0 TR	1 No	108790
249	MAT-03796	ELEC-5.6.12	Supply, Installation, Testing & Commissioning Simple wireless remote controller to control the IDUs with Machine coding, ON-OFF & Temp. setting of individual IDU and group of IDU.		1771
250		ELEC-5.6.13	Supply of Indoor Units consisting of 3/4 row deep DX coil, drain pan, filter, blower section and drive arrangement, initial charge of refrigerant & oil, integral refrigerant piping, electronic expansion valve, electrical panel with controls, duly wired, thermostatic control corded/cordless remote controller supports for indoor units etc. Makes : As per list of recommended brands as category I.		
			Type of Units : Ductable TFA Units		
	MAT-03797	a	4TR	1 No	104553
	MAT-03798	b	6TR	1 No	125994
	MAT-03799	c	8TR	1 No	132825
251		ELEC-5.6.14	Supply of Indoor Units consisting of 3/4 row deep DX coil, drain pan, filter, blower section and drive arrangement, initial charge of refrigerant & oil, integral refrigerant piping, electronic expansion valve, electrical panel with controls, duly wired, thermostatic control corded/cordless remote controller supports for indoor units etc. Makes : As per list of recommended brands as category II.		
			Type of Units : Ductable TFA Units		
	MAT-05541	a	4TR	1 No	96140
	MAT-	b	6TR	1 No	115115

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	05542				
	MAT-05543	c	8TR	1 No	122073
			HVAC-LOW SIDE WORKS		
252		ELEC-5.6.15	Lifting, shifting, positioning, Installation and testing of the ODUs including all accessories with Vibration Isolators for ODUs etc., complete		
	MAT-03800	A	6 to 8 HP	1 No	8694
	MAT-03801	B	10 to 12 HP	1 No	12420
	MAT-03802	c	14 to 20 HP	1 No	14904
253		ELEC-5.6.16	Lifting Shifting, Positioning ,Installation Testing and commissioning of the following indoor units with including all required accessoires etc complete.,		
			Type Of Units :Hi Wall Units	1 No	
	MAT-03803	a	1.0 TR to 2.0 TR	1 No	1490
254		ELEC-5.6.17	Lifting Shifting, Positioning ,Installation Testing and commissioning of the following indoor units with including all required accessoires etc complete.,		
			Type Of Units :Round Flow /4 way Cassette units		
	MAT-03804	a	1.0 TR to 2.0 TR	1 No	1863
	MAT-03805	b	2.6 TR to 4.5 TR	1 No	3105
255		ELEC-5.6.18	Lifting Shifting, Positioning ,Installation Testing and commissioning of the following indoor units with including all required accessoires etc complete.,		
			Type Of Units :High Static Duct Units		
	MAT-03806	a	3.2 TR to 4.5 TR	1 No	3726
	MAT-03807	b	5.5 TR to 8.0 TR	1 No	5589

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
256		ELEC-5.6.19	Installation, testing & commissioning of Indoor Units consisting of 2/3/4 row deep DX coil, filter, blower section and drive arrangement, initial charge of refrigerant & oil, integral refrigerant piping, electronic expansion valve, electrical panel with controls duly wired, thermostatic control corded/cordless remote controller supports for indoor units etc.		
			Type of Units : Ductable TFA Units		
	MAT-03808	a	4 TR to 8 TR	1 No	5693
			Refrigerant Piping		
257		ELEC-5.6.20	Supply, installation and testing of Refrigerant Piping consisting of Copper tubes of wall thickness 20G/22G inclusive of Suction Gas Piping & Fittings, Liquid Line Piping & Fittings , with class "O" nitrile rubber Insulation with finish as required. The piping to be mounted & supported properly with suitable size of clamp, M.S. hanger, tray etc., as required at site Makes : As per list of recommended brands.		
			The insulation shall be closed cell/cross linked elastomeric Nitrile rubber of thickness 13/19 mm. The insulation thickness upto 19.1 mm dia pipe shall be 13 mm and above 19.1 mm dia, the insulation thickness shall be 19 mm.		
			Testing of refrigerant piping and procedure shall be done as per Manufacturer's recommendations		
	MAT-03809	a	34.9 mm dia	Rmt	1455
	MAT-03810	b	28.6 mm dia	Rmt	1329
	MAT-03811	c	22.2 mm dia	Rmt	1202
	MAT-03812	d	19.1 mm dia	Rmt	1076
	MAT-03813	e	15.9 mm dia	Rmt	949
	MAT-03814	f	12.7 mm dia	Rmt	823
	MAT-03815	g	9.5 mm dia	Rmt	607

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03816	h	6.4 mm dia	Rmt	531
258		ELEC-5.6.21	Supply, installation and testing of UPVC Drain Piping with 6mm Nitrile Rubber class "O" Insulation covered with interwoven glass cloth protection. Necessary pipe fittings(Including enlarger, bends, T Joints etc) has to be considered to connect the UPVC drain pipe to cast iron floor trap.		
	MAT-03817	a	25 mm dia	Rmt	188
	MAT-03818	b	32 mm dia	Rmt	224
	MAT-03819	c	40mm dia	Rmt	274
	MAT-03820	d	50 mm dia	Rmt	324
			Supply of PVC insulated 2 core 1.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. (Covered in Section -1)	Rmt	
259	MAT-03821	ELEC-5.6.22	Supply and transportation of R 410A Gas for the system.	kg	1309
260	MAT-03822	ELEC-5.6.23	Providing Pressure testing of entire system with Nitrogen and vaccuming nitrogen for all indoor and outdoor units. The pressure testing shall be done as per OEM recommendation.	HP	1582
261	MAT-03823	ELEC-5.6.24	Supply, installation, testing & commissioning of Stand alone, intelligent Touch controller with Display for controlling the indoor & outdoor units from a Remote place for all the circuits.	No	93610
262		ELEC-5.6.25	Supply, installation, testing & commissioning of GSS Ducting with required angle flanges & installation materials such as heavy duty supports by anchor fasteners etc as required as per IS 655 /SMACNA Standards. Makes : As per list of recommended brands.		
	MAT-03824	a	24 G	sqm	1044
	MAT-03825	b	22 G	sqm	1170

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03826	c	20 G	sqm	1392
	MAT-03827	d	18 G	sqm	1518
			Thermal Insulation		
263	MAT-03828	ELEC-5.6.26	Supply & Fixing of Duct Thermal Insulation applied outside of the duct work with All. backed Closed cell nitrile/ Cross linked foam duly fixed with adhesive and tapes.		
			13 mm Thick	sqm	734
			Accoustic Insulation		
264		ELEC-5.6.27	Supply & Fixing of Duct Accoustic Insulation applied inside of the duct work with All. backed Open cell nitrile duly fixed with adhesive and tapes		
	MAT-03829	a	10/15 mm Thick	sqm	1139
265	MAT-03830	ELEC-5.6.28	Supply, Installation, Testing and commissioning of extruded Aluminum powder coated grills/ diffusers for supply with removable core type with collar damper	sqm	10753
266	MAT-03831	ELEC-5.6.29	Supply, Installation, Testing and commissioning of extruded Aluminum powder coated grills/ diffusers for retron with removable core type without collar damper	sqm	7843
267	MAT-03832	ELEC-5.6.30	Supply , Erection and Testing of GI Opposed blade Volume control dampers made out of 18G frame and 20G blades	sqm	6831
268	MAT-03833	ELEC-5.6.31	Supply , Erection of Fresh air louver with extruded aluminium grill with SS wire mesh and GI volume control damper with 20 micron filters	sqm	5440
269	MAT-03834	ELEC-5.6.32	Supply and Installation of Underdeck Insulation with 50 mm thk EPS, 48 Kg/Cum density, factory laminated faced alumimun foil coreved with GI cross wiring.	sqm	823
270	MAT-03835	ELEC-5.6.33	Supply and Installation of GI Fusible link Fire dampers 500 mm long with sleeve as per UL 555 Standard, Minimum width of damper shall be 225 mm.	sqm	8223

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
271	MAT-03836	ELEC-5.6.34	Supply and Installation of GI backdraft dampers as per UL 555 Standard,	sqm	6831
272	MAT-03837	ELEC-5.6.35	Supply, installation and testing of Canvas connection for the Treated Fresh Air units to the duct	each	2783
273		ELEC-5.6.36	Supply, erection, testing and commissioning of Fresh air intake GI louvers with bird screen as per standard specifications.	ONE Sqmtr	5500
274		ELEC-5.6.37	Supply, Installation, Testing and commissioning of extruded Aluminum powder coated grills/ diffusers for supply air with removable core type with collar damper	ONE Sqmtr	9657
275		ELEC-5.6.38	Supply, Installation, Testing and commissioning of extruded Aluminum powder coated grills/ diffusers for return air with removable core type without collar damper.	ONE Sqmtr	7044
		5.7	EVAPORATIVE AIR COOLING SYSTEM		
276	MAT-03838	ELEC-5.7.1	Supply of single phase evaporative air cooling unit with a capacity of 9000 CFM consisting cabinet and water tank made of polypropylene material, blower water pump of 40W, single phase 1.20 KW motor axial type fan with variable speed, 20 micron filtration, noise level less than 78 dBA with auto cleaning, humidity control and water lack protection etc complete. Makes : As per list of recommended brands.	1 No	132825
277	MAT-03839	ELEC-5.7.2	Supply of Three phase evaporative air cooling unit with a capacity of 12000 - 15000 CFM consisting cabinet and water tank made of polypropylene material, blower water pump of 40W, Three phase 3.0 KW motor axial type fan with 2 speed, 20 micron filtration, noise level less than 78 dBA with auto cleaning and water lack protection etc complete. Makes : As per list of recommended brands.	1 No	227700
278	MAT-03840	ELEC-5.7.3	Supply and fixing of 13mm thick Nitrile insulation for out door unit.	1 sft	69
279	MAT-03841	ELEC-5.7.4	Supply and fixing of 50mm thick glasswool of 24 kg density with aluminium foil insulation for indoor duct.	1 sft	74

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
280	MAT-03842	ELEC-5.7.5	Supply and fixing of angular iron frame with 2 coats of zincromat red oxide for installation of air cooling unit	1 No	6325
281	MAT-03843	ELEC-5.7.6	Installation and commissioning charges for air cooling unit	1 No	4554
		5.8	STABILIZERS		
282		ELEC-5.8.1	Supply of Stabilizer. Makes : As per list of recommended brands as category I.		
	MAT-03844	a	0.5 KVA	1 No	990
	MAT-03845	b	1.0 KVA	1 No	1751
	MAT-03846	c	3.0 KVA	1 No	2415
	MAT-03847	d	4.0 KVA	1 No	3260
	MAT-03848	e	5.0 KVA	1 No	3985
283		ELEC-5.8.2	Supply of Stabilizer. Makes : As per list of recommended brands as category II.		
	MAT-03849	a	0.5 KVA	1 No	815
	MAT-03850	b	1.0 KVA	1 No	1570
	MAT-03851	c	3.0 KVA	1 No	2053
	MAT-03852	d	4.0 KVA	1 No	3019
	MAT-03853	e	5.0 KVA	1 No	3743
		5.9	REPAIRING OF FANS, COOLERS, PUMPS, MOTORS, FRIDGES AND AIRCONDITIONERS		
284		ELEC-5.9.1	Rewinding of ceiling fan motor (starting and running winding) including all necessary material. The motor is to be wound taking no. of coils, turns and pitch as it was originally wound with required size super enamelled wire with 'E' class insulation material and making connections etc. as required.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			(New model ceiling fan)		
	MAT-03854	a	900/1200 mm sweep	1 No	467
	MAT-03855	b	1400 mm sweep	1 No	561
285	MAT-03856	ELEC-5.9.2	Charges for oiling, greasing, overhauling of ceiling fan, table fan, pedestal fan irrespective to the size of fan including removing,refixing of fan from site and testing etc. as required	1 No	190
286	MAT-03857	ELEC-5.9.3	Providing and Replacement of ball bearing of ceiling/ exhaust fan as required. (NBC/ SKF)	1 No	222
287	MAT-03858	ELEC-5.9.4	Providing and Replacement of Gun metal bush of ceiling/ exhaust/cooler fan/ as required	1 No	190
288	MAT-03859	ELEC-5.9.5	Servicing and overhauling of 20" sweep desert cooler including oiling, greasing, painting of tank from inside with rubber paint after properly desmantling each assembly and refixing the same as required.	1 No	316
289	MAT-03860	ELEC-5.9.6	Painting of desert cooler with two coats of rubber paint inside of water tank and two coat of synthetic enamelled paint on both side of cooler body, fan body, grills etc.after cleaning with sand paper, complete in all respect as required	1 No	569
290	MAT-03861	ELEC-5.9.7	Replacement of cooler pads (heavy) set of 3 no. of size 25" x 27"	1 No	190
291	MAT-03862	ELEC-5.9.8	Supply and fixing of Brass float valve of weighing approx. 250 gm, 8" long rod,PVC ball of 4" dia. For desert coler as required.	1 No	253
292	MAT-03863	ELEC-5.9.9	Supply and fixing of adjustable M.S.grill 20/22 gauge of size approx. 24" x 26" including painting etc. as required	1 No	455
293	MAT-03864	ELEC-5.9.10	Spray painting of ceiling fan of size 900/1200/ 1400 mm with two coats of white/ brown enamelled paint after cleaning with sand paper. Filling etc. as required.	1 No	222

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
294		ELEC-5.9.11	Rewinding of Heavy duty Exhaust fan motor including all necessary material, The motor is to be wound taking no. of coils, turns and pitch as it was originally wound with required size super enamelled wire with 'E' class insulation material and making connections etc. as required.		
	MAT-03865	a	300/ 380 mm sweep	1 No	791
	MAT-03866	b	450 mm sweep	1 No	935
	MAT-03867	c	600 mm sweep	1 No	1581
295	MAT-03868	ELEC-5.9.12	Rewinding of 400 mm table fan/pedestal fan motor including all necessary material, The motor is to be wound taking no. of coils, turns and pitch as it was originally wound with required size super enamelled wire with 'E' class insulation material and making connections etc. as required.	1 No	504
296		ELEC-5.9.13	Rewinding of single phase motor of 1400 RPM including all necessary material and of the same characteristics as original with required size of super enamelled wire 'E' class insulation material and testing etc. as required.	1 No	
	MAT-03869	a	0.5 H.P. To 1.00 H.P.	1 No	1050
	MAT-03870	b	2.0 H.P	1 No	1725
297		ELEC-5.9.14	Rewinding of three phase motor of 1400 to 2800 RPM including all necessary material and of the same characteristics as original with required size of super enamelled wire 'E' class insulation material and testing etc. as required.		
	MAT-03871	a	3.0 H.P.	1 No	2550
	MAT-03872	b	5.0 H.P.	1 No	3600
	MAT-03873	c	7.5 H.P	1 No	3900
	MAT-	d	10.0 H.P	1 No	5250

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	03874				
	MAT-03875	e	12.5 H.P	1 No	5550
	MAT-03876	f	15.0 H.P	1 No	6750
298		ELEC-5.9.15	Supply and charging of fresh refrigerant and testing of performance of air conditioner/ fridge/ water cooler of following capacity including capillary and strainer/ filter.		
	MAT-03877	a	1.0 TR Window/ Split A.C	1 No	2404
	MAT-03878	b	1.5 TR Window/ Split A.C	1 No	2657
	MAT-03879	c	2.0 TR Window/ Split A.C	1 No	3163
	MAT-03880	d	25/50 / 40/80 Ltr. Water cooler	1 No	2530
	MAT-03881	e	60/120 Ltr. Water cooler	1 No	2910
	MAT-03882	f	150/150 Ltr. Water cooler	1 No	3542
	MAT-03883	g	165 Ltr Refrigerator	1 No	1581
	MAT-03884	h	200/210 Ltr Refrigerator	1 No	2277
	MAT-03885	i	286/310 Ltr Refrigerator	1 No	2657
299		ELEC-5.9.16	Replacement of defective compressor by company repaired compressor of fridge./water cooler including testing etc. as required. Makes : As per list of recommended brands.		
	MAT-03886	a	25/50 / 40/80 Ltr. Water cooler	1 No	7590
	MAT-03887	b	60/120 Ltr. Water cooler	1 No	9614
	MAT-03888	c	150/150 Ltr. Water cooler	1 No	11385

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03889	d	165 Ltr Refrigerator)	1 No	3922
	MAT-03890	e	200/210 Ltr Refrigerator	1 No	4807
	MAT-03891	f	286/310 Ltr Refrigerator	1 No	5440
300		ELEC-5.9.17	Supply of brandnew Rotary type sealed compressor for Air conditioner Makes : As per list of recommended brands.		
	MAT-03892	a	1.0/1.5 TR	1 No	11495
	MAT-03893	b	2 TR	1 No	12645
301		ELEC-5.9.18	Replacement of condensing/ cooling coil of copper fins for following capacity A.C./ Water cooler/ Fridge as required		
	MAT-03894	a	1.0 TR A.C.	1 No	4510
	MAT-03895	b	1.5 TR A.C.	1 No	5092
	MAT-03896	c	2.0 TR A.C.	1 No	5674
	MAT-03897	d	25/50 / 40/80 Ltr. Water cooler	1 No	3036
	MAT-03898	e	60/120 Ltr. Water cooler	1 No	4428
	MAT-03899	f	150/150 Ltr. Water cooler	1 No	4428
	MAT-03900	g	165 Ltr Refrigerator	1 No	1392
	MAT-03901	h	200/210 Ltr Refrigerator	1 No	1518
	MAT-03902	i	286/310 Ltr Refrigerator	1 No	1961
302	MAT-03903	ELEC-5.9.19	Replacement of overload protection of A.C./ Water cooler as required	1 No	633

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
303	MAT-03904	ELEC-5.9.20	Replacement of thermostat of A.C./ Water cooler/fridge as required.	1 No	569
304	MAT-03905	ELEC-5.9.21	Replacement of starting relay of A.C./water cooler/fridge compressor as required	1 No	620
305	MAT-03906	ELEC-5.9.22	Spray painting of complete fridge (inside and outside) of 165/ 200/286/310 Ltr. Capacity	1 No	2024
306		ELEC-5.9.23	Supply and fixing of 230V/ 275V, 50Hz rating		
			Starting capacitor		
	MAT-03907	a	20-60 micro farad	1 No	242
	MAT-03908	b	80-150 micro farad	1 No	484
			Running capacitor	1 No	
	MAT-03909	a	2.5/3.15/4.0/6.0 micro farad	1 No	91
	MAT-03910	b	8.0 micro farad	1 No	133
	MAT-03911	c	10.0 micro farad	1 No	182
	MAT-03912	d	15.0 to 36.0 micro farad	1 No	481
307	MAT-03913	ELEC-5.9.24	Supply, Fabrication of 1set MS bracket suitable for fixing out door unit of split AC unit.	1 Set	1452
308		ELEC-5.9.25	Providing 2 runs of Copper tubes for suction and liquid between indoor and outdoor unit for split/Casseete Air- Conditioner including foaming etc., complete. Makes : As per list of recommended brands.		
	MAT-03914	a	1/2" x 1/4"	1 Mtr	980
	MAT-03915	b	5/8" x 1/4"	1 Mtr	1077
	MAT-03916	c	3/4" x 3/8"	1 Mtr	1180

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03917	d	7/8" x 1/2"	1 Mtr	1331
	MAT-03918	e	1 1/8" x 5/8"	1 Mtr	1634
309	MAT-03919	ELEC-5.9.26	Multi speed Fan Motor suitable for 1.0 / 1.5 / 2.0 Ton Window A.C.Unit Makes : As per list of recommended brands.	1 No	1803
310	MAT-03920	ELEC-5.9.27	Air filter suitable for 1.50 Ton Window A.C.Unit P.V.C. / NYLON.	1 No	303
311	MAT-03921	ELEC-5.9.28	Air filter suitable for 1.50 Ton Split A.C.Unit P.V.C. / NYLON.	1 No	520
312	MAT-03922	ELEC-5.9.29	Fan blade for 1.0 / 1.5 Ton A.C.Machine.	1 No	605
313	MAT-03923	ELEC-5.9.30	Installation of Split Air Conditioners.	1 No	2200
314	MAT-03924	ELEC-5.9.31	Removing of existing Split Air Conditioners without damaging to copper pipe.	1 No	726
315	MAT-03925	ELEC-5.9.32	Installation of Cassette type Split Air Conditioners.	1 No	5500
316	MAT-03926	ELEC-5.9.33	Installation of Tower type Split Air Conditioners.	1 No	4125
317	MAT-03927	ELEC-5.9.34	Supply, Fabrication of 1set MS bracket suitable for fixing out door unit of 3.5 /4.50 TR Casseeete AC unit.	1 Set	2057
318	LAB-01181	ELEC-5.9.35	Repairs and Installation of existing PCB in 1.0 / 1.5 / 2.0 Ton Split A.C.Unit	1 No	780
319	LAB-01182	ELEC-5.9.36	Overhauling and servicing the Split type 1.5/2.0 Ton A.C. Machine by Cleaning the condensor cooling Coil etc., by blower and oiling the Fan Motor and Cleaning all parts and putting the machine in working condition.	1 Job	690
320	LAB-01183	ELEC-5.9.37	Overhauling and servicing the Cassette type 1.5/2.0/3.5/4.0 Ton A.C. Machine by Cleaning the condensor cooling Coil etc., by blower and oiling the Fan Motor and Cleaning all parts and putting the machine in working condition.	1 Job	936
321		ELEC-5.9.38	Supply, Transportation, Installation, Testing and Commissioning of the following actual capacity at		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			45°C ambient OUTDOOR CONDENSING UNITS-INVERTER type suitable to operate upto 52°C ambient temperature with minimum one variable speed inverter scroll compressor. Matching air cooled condenser with copper tubes and aluminium fins duly covered by anti-corrosion and hydrophillic resin film. Scroll compressors suitable for operation with R-410A.. Unit with all necessary safety devices like high/low pressure cut-outs, fan motor thermal overload protector, over current/low current safety, fuses etc. Suitable for operation on 80V~415V~3Ph~50Hz A.C. supply. Oil separator and Accumulator to be provided for inverter compressors and with copper condensing units. Makes : As per list of recommended brands.		
		a	2.5 TR	1 No	55000
		b	3.5 TR	1 No	83000
		c	5.5 TR	1 No	85400
		d	8.5 TR	1 No	122000
		e	11 TR	1 No	146000
		f	17 TR	1 No	239000
			AIR HANDLING UNITS		
322		ELEC-5.10.1	Supply, Installation, Testing and Commissioning of double skin horizontal floor mounted air handling unit of recirculation type having mixing box with fresh air & return air manually operated AL dampers. Fresh air inlet should have back draft dampers along with AL manually operated fresh air dampers. Units shall be with minimum 80mm GI base channel. The panel thickness should be 46+/-2mm having thermal break AL profile. Outer skin of the unit should be 0.6mm pre-coated GI sheet & Inner skin should be 0.8mm AL. All internal blank off should be GI. Filter section with 90% efficiency down to 10 micron pre-filter box		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			type followed by 95% efficiency down to 5 micron Microvee filter in a separate filter frame. Cooling coil section should be 6 or 8 Row Deep Direct Expansion intertwining cooling coil compatible for Mitsubishi /DAIKIN/Toshiba/O General/ Blue star/Hitachi/Carrier outdoor unit. Fin thickness should be 0.15mm & fin spacing should be 12 FPI. Coil casing should be GI & fin shall be with standard fin material. Coil shall be 18G SS-304 drain pan with 13mm thick closed cell nitrile rubber insulations. Unit shall be ultra violet lamp to kill germs/fungus. Heater section should be with 4kW electric strip heater in 2 banks. Fan section should be SISW direct driven plug fan with a minimum efficiency of 65%. Motors should be IE-2, TEFC squirrel cage induction type with IP-55 protection, 415V, 3Phase & 50Hz. Motor drive should be VFD. VFD drive should be included in AHU supply. Fan should be housed over the spring isolator. Unit should be supplied with manually operated AL dampers. The AHU package should include Electronic expansion valves compatible to condensing units, Temperature sensor and controller compatible to inverter drive, communication cables from AHU to condensing unit etc., including cost of all accessories and all labour charges, transportation etc., complete. Makes : As per list of recommended brands.		
			1000 cfm 2.5" static	Each	65000
			1400 cfm 2.5" static	Each	75000
			2200 cfm 3.5" static	Each	115000
			3400 cfm 4.5" static	Each	185000
			4400 cfm 4.5" static	Each	225000
			6800 cfm 4.5" static	Each	335000
			8800 cfm 5.5" static	Each	385000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
323		ELEC-5.10.2	Supply, installation, testing and commissioning of tube axial flow type Supply Air Fan of suitable capacity .....WC static pressure with powder coated MS/GSS casing and aluminium alloy impellers with high efficiency aero-foil sections, blades, the impeller directly driven by TEFC induction motor (IE-2) and 'F' class insulation suitable for 3 Phase, 50 Hz, 415±10% Volt, ac supply (and as per manufacturer specification) for a static pressure as indicated below. Fan section shall be suitable for Floor Mounted out door application as well as ceiling suspended indoor applications with suitable capacity of starter with Four Pole MCB etc., and other protective devices of approved brands within MS enclosure box complete as required and as per specifications. The fan shall be equipped with mounting bracket Inlet & outlet cone required at discharge. The sound pressure should not exceed 80 db(A) at a distance of 3 Mts. The Fan should be complete with all accessories including fire rated canvas connection with metallic flange, vibration isolators, gravity louvers, bird screen etc., as per specification including transportation to site, all mounting arrangements like brackets etc., and cost of all accessories and all labour charges complete. Fan total efficiency should not be less than 60%. Makes : As per list of recommended brands.		
		a	1500 CFM/ 20mm	Each	17419
		b	2500 CFM/ 20mm	Each	19441
		c	3000 CFM/ 20mm	Each	19441
		d	3500 CFM/ 20mm	Each	21656
		e	4000 CFM/ 20mm	Each	24411
		f	5000 CFM/ 20mm	Each	27910
		g	5500 CFM/ 20mm	Each	25997

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
		h	6500 CFM/ 35mm	Each	30995
		i	9500 CFM/ 20mm	Each	36103
		j	11500 CFM/ 35mm	Each	41593
		k	12000 CFM/ 35mm	Each	41593
		l	16000 CFM/ 35mm	Each	56406
324		ELEC-5.10.3	Supply, installation, testing and commissioning of tube axial flow type Fire rated Exhaust Air Fan of suitable capacity WC static pressure with powder coated MS/ GSS casing and aluminium alloy impellers with high efficiency aero-foil sections, blades, the impeller directly driven by TEFC induction motor (IE-2) and 'H' class insulation suitable for 3 Phase, 50 Hz, 415±10% Volt, ac supply, (and as per manufacturer specification) for a static pressure as indicated below. Fan section shall be suitable for Floor Mounted out door application as well as ceiling suspended indoor applications with suitable capacity of starter with Four Pole MCB etc., and other protective devices of approved brands within MS enclosure box complete as required and as per specifications. The fan shall be equipped with mounting bracket Inlet & outlet cone required at discharge. Fans should be AMCA certified. The sound pressure should not exceed 80 db(A) at a distance of 3 Mts. Fan and Motor for Fire exhaust fans shall be suitable for operation at minimum 250 deg C for 2 hrs. The Fan should be complete with all accessories including fire rated canvas connection with metallic flange, vibration isolators, gravity louvers, bird screen etc., as per specification including transportation to site, all mounting arrangements like brackets etc., and cost of all accessories and all labour charges complete. Fan total efficiency should not be less than 60%. Makes : As per list of recommended brands.		
		a	2500 CFM/ 20mm	Each	22736

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
		b	3000 CFM/ 20mm	Each	21990
		c	3500 CFM/ 20mm	Each	24759
		d	4000 CFM/ 20mm	Each	24759
		e	5000 CFM/ 20mm	Each	29858
		f	5500 CFM/ 20mm	Each	29858
		g	16000 CFM/ 35mm	Each	64949
		h	19000 CFM/ 25mm	Each	65799
325		ELEC-5.10.4	Supplying, installing, testing and commissioning of low noise silent type .....ESP INLINE FAN. The motor shall be suitable for 220 volt single phase 50 cycles AC supply, 6/15 Amp plug and wiring between the fan and the socket and low sound level exceeding not more than 50dBA. Fan should be complete with all accessories including canvas connection, gravity louver/ shutter as required etc., as per manufacturer specification including transportation to site, all mounting arrangements like brackets etc., as per specification including transportation to site, all mounting arrangements like brackets etc., and cost of all accessories and all labour charges complete. Makes : As per list of recommended brands.		
		a	100 CFM / 3-5 mm	Each	4386
		b	150 CFM / 3-5 mm	Each	4627
		c	200 CFM / 5 mm	Each	4723
		d	300 CFM / 5 mm	Each	5639
		e	400 CFM / 5 mm	Each	7046

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
		f	450 CFM / 5 mm	Each	5976
		g	500 CFM / 5 mm	Each	7229
		h	600 CFM / 8 mm	Each	8868
		l	800 CFM / 8 mm	Each	10121
		J	1000 CFM / 8 mm	Each	11133
		K	1300 CFM / 10 mm	Each	12483
326		ELEC-5.10.5	Supplying, installing, testing and commissioning of .....SP-For Fresh Air Cabinet FAN SECTION - DIDW of double skin construction as per specifications, each complete with squirrel cage induction motor (mounted internally), centrifugal fan belt drive and vibrations isolators, base, drive arrangement, flexible canvass connection inside and for duct connection and all other accessories as required and as called for in the drawings. Motors shall be suitable for $415 \pm 10\%$ volts, 50 cycles, 3 phase or 220 volt single phase 50 cycles AC supply (as per manufacturer specification) for a static pressure as indicated. In addition all supply fans (SF) shall be provided with 50mm thick prefilter. Fan section shall be suitable for Floor Mounted out door application as well as ceiling suspended indoor applications with suitable capacity of starter with Four Pole MCB etc., and other protective devices of approved brands within MS enclosure etc., as per specification including transportation to site, all mounting arrangements like brackets etc., and cost of all accessories and all labour charges complete. Makes : As per list of recommended brands.		
		a	15000 CFM / 30mm	Each	87233
		b	25000 CFM / 30mm	Each	304882

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
327		ELEC-5.10.6	<p>Supply, Installation, Testing and Commissioning of Electrostatic Type Kitchen Exhaust Air Cleaner (Dry Scrubber) complete with the following accessories, components etc.making it a completely functional dry scrubber suitable for Kitchen Hood Exhaust.The component to be included are:-</p> <p>Fan Section:-Double skin floor mounted cabinet fan section for exhaust air made of 25 ± 2 mm thick panel consisting of pre painted GSS sheet of thickness 0.8mm outside layer and 0.63 mm inside layer with polyurethane foam (PUF) insulation of density 40 kg/m³ factory injected between them by injection moulding machine, complete with SISW backward curved centrifugal fan suitable for static pressure as required with TEFC induction motor (IP 55 protection) should be of high efficiency class IE3 suitable for 3 Phase 50 Hz 415V ± 10 %, of Class F insulation, internal fire rated flexible connection with flanges, fire rated connection for duct/ dry scrubber, gravity louver, vibration isolator etc. including all accessories complete as required and as per specifications. Motor and drive shall be out of hot air stream and shall be protected with GI covering/weather proof canopy. Pre Filter Section with Wire Mesh SS Filters for Coarse Particle.</p> <p>Electrostatic Precipitator Section - Electrostatic section shall be made of 16 SWGgalvanised sheet, high bake epoxy powder coated, SS Spiked ionizers to create highvoltage DC field, aluminum collector plates which should be alternatively charged positive and negative with large collecting area with deep cell, to work as magnet for charged smoke and oil particles. Average efficiency of 90-95% in single pass as per ASHRAE/DOP test method.</p> <p>Electrostatic Precipitator should be able to charge particles from 0.01 micron to 10 microns through solid state power supply. Collector cell should be of permanent type and incorporate slide out facility for easy removal for cleaning.Power supplies shall be 100% solid state. Suitable capacity of starter with Four Pole MCB etc., and other protective devices of approved brands and other protective devices within M.S enclosure box with suitable length of cable for connection with fan from isolator complete as required and as per specifications. Fan should be</p>		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			complete with all accessories including canvas connection, vibration isolators etc., as per specification including transportation to site, all mounting arrangements like brackets etc., and cost of all accessories and all labour charges complete. Makes : As per list of recommended brands.		
		a	18000 CFM / 65mm	Each	373016
		b	30000 CFM / 65mm	Each	679370
328		ELEC-5.10.7	Supplying, installing, testing and commissioning of 150 mm dia low noise direct driven wall mounted PROPELLER FAN. Each fan shall be complete with permanent split capacitor or shaded pole motor, mounting plate with light weight type PVC /aluminium impellers with aerofoil contours for high efficiency & finished with decorative frames & gravity shutter/ bird screen at discharge as required. The motor shall be suitable for 220 volt single phase 50 cycles AC supply, 6/15 Amp plug and wiring between the fan and the socket etc., as per specification including transportation to site, all mounting arrangements like brackets etc., and cost of all accessories and all labour charges complete. Makes : As per list of recommended brands.		
		a	150 mm dia	Each	1957
		b	300 mm dia	Each	2699
329		ELEC-5.10.8	Supply, Transportation, Installation, Testing and Commissioning of Ceiling suspended laminar flow (Planair Ceiling system) with unidirectional airflow work space / discharge plenum for operation rooms comprising as standard feature with HEPA filter efficiency not less than 99.97% down to 0.3 Microns (Factory DOP tested), per operation room shall not be less than 3.1 sqm area with appropriate depth to accommodate absolute filters, with air flow at approx. 90-100 Fpm velocity. Size 8ft X 6ft. The laminar flow system shall have such design that it provides "H13/14" class Hepa filter. Material of construction Shall be 1.2mm thick S S 304 Plenum	Each	275000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			with S S Perforated sheet at the bottom. Each air inlet should be supplied with Aluminium opposed blade damper. Diffuser : 2 layer monofilament precision woven polyester of uniform porosity with an open area of sufficient resistance to create laminar flow from diffusers face and integral lighting provides an illumination level in excess of 1500 Lux in operating area and 1000 Lux other electronic stepless dimming down to 5% without flicker. The entire plenum should be insulated with 19mm thick Al faced nitrile rubber. Bottom discharge should be perforated SS Sheet of 1.6mm with reinforcement to avoid waviness.		
			SECTION 6		
		6.1	SWAGED / OCTAGONAL POLES AND GARDEN POSTS		
330	MAT-03928	ELEC-6.1.1	Fabrication, supply and transportation of all sizes swaged poles up to site conforming to IS 2713 / 1980 specifications. The pole should be painted with primary coat of red oxide and black bituminous paint up to ground level with base plate, including cost of all materials etc., complete.(Rate per K. G)	1 Kg	82
331	MAT-03929	ELEC-6.1.2	Fabrication and Supply of M.S. Poles for garden posts with 'B' class 60.25mm outer dia with base plate and suitable pole cap including cost and conveyance of all material including fixing of luminaire and labour charges etc., complete. (Rate per K. G)	1 Kg	74
332	MAT-03930	ELEC-6.1.3	Supply of different sizes of M. S. Pipe brackets (Rate per K.G)	1 Kg	74
			OCTOGONAL POLES		
333	MAT-03931	ELEC-6.1.4	Fabrication, Transportation and supply of hot-dip galvanized Octagonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with Hinged door opening arrangement, including the supply of suitable boards with bakelite sheet as per IS specification suitable to withstand the wind speed of 180 KMPH for 7.5 Mtrs height Pole having dimensions Bottom 130 mm,. Top 70mm with 3mm thick, base plate 220 x 220 x 12mm and 4 Nos of M20 x 700 long 'J' bolts along with template. Makes : As per list of recommended brands.	1 No	13842

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
334	MAT-03932	ELEC-6.1.5	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with Hinged door opening arrangement, including the supply of suitable boards with bakelite sheet as per IS specification suitable to withstand the wind speed of 180 KMPH for 9 Mtrs height Pole having dimensions Bottom 155 mm,. Top 70mm with 3mm thick, base plate 260 x 260 x 16mm and 4 Nos of M24 x 750 long 'J' bolts along with template. Makes : As per list of recommended brands.	1 No	20009
335	MAT-03933	ELEC-6.1.6	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with Hinged door opening arrangement, including the supply of suitable boards with bakelite sheet as per IS specification suitable to withstand the wind speed of 180 KMPH for 10 Mtrs height Pole having dimensions Bottom 175 mm,. Top 70mm with 3mm thick, base plate 275 x 275 x16mm and 4 Nos of M24 x 750 long 'J' bolts along with template. Makes : As per list of recommended brands.	1 No	21998
336	MAT-03934	ELEC-6.1.7	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet as per IS specification suitable to withstand the wind speed of 180 KMPH for 12 mtrs height Pole having dimensions Bottom 240mm, Top 100mm with 4mm thick, base plate 320 x320 x20mm and 4 Nos of M24 x 850 long 'J' bolts along with template. Makes : As per list of recommended brands.	1 No	31779
			DECORATIVE DRAGON TYPE BRACKET WITH POLE		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
337		ELEC-6.1.8	Fabrication, Transportation and supply of hot-dip galvanized Octagonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet and MCB's as per IS specification suitable to withstand the wind speed of 180KMPH for 9 Mtrs Mounting height Pole having dimensions Bttom 185 mm,. Top 70mm with 3mm thick, base plate 275 x 275 x 20mm and 4 Nos of M24 x 1000 long 'J' bolts along with templates. Including Supply of 1.5M Dragon type decorative		
	MAT-03935	a	galvanised double arm with PU Painted bracket.	1 No	31308
	MAT-03936	b	galvanised Single arm with PU Painted bracket.	1 No	26836
	MAT-05544	c	Double arm GalvanizeFinished bracket	1 No	26483
	MAT-05545	d	Single arm GalvanizeFinished bracket	1 No	24011
338		ELEC-6.1.9	Fabrication, Transportation and supply of hot-dip galvanized Octagonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet and MCB's as per IS specification suitable to withstand the wind speed of 180 KMPH for 9 Mtrs Mounting height Pole having dimensions Bottom 185 mm,. Top 70mm with 3mm thick, base plate 275 x 275 x 20mm and 4 Nos of M24 x 1000long 'J' bolts along with templates. Including Supply of 1.5M Dragon type decorative	1 No	DELETED
339		ELEC-6.1.10	Fabrication, Transportation and supply of hot-dip PU Paint finish Curved Octagonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet and MCB's as per IS specification suitable to withstand the wind speed of 180 KMPH for 9 Mtrs Mounting height Curved Pole having dimensions Bottom 180 mm,. Top 85mm with 3mm thick, base plate 400 x 400 x 20mm and 4 Nos of M24 x 750 long 'J' bolts along with templates. Including Supply of 0.2M long Single arm bracket.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands.		
	MAT-03937	a	Galvanized	1 No	26247
	MAT-05546	b	Galvanized PU paint finshed	1 No	35545
			POLE BRACKETS		
340	MAT-03938	ELEC-6.1.11	Fabrication, Transportation and supply of 1.0 Mtr Length Single Arm Bracket made with MS galvanized 40mm / 50mm dia Pipe. Makes : As per list of recommended brands.	1 No	1530
341	MAT-03939	ELEC-6.1.12	Fabrication, Transportation and supply of 1.50 Mtr Length Single Arm Bracket made with MS galvanized 40mm / 50mm dia Pipe. Makes : As per list of recommended brands.	1 No	2024
342	MAT-03940	ELEC-6.1.13	Fabrication, Transportation and supply of 1 Mtr length Double Arm Bracket made with MS galvanized 40mm / 50mm dia Pipe. Makes : As per list of recommended brands.	1 No	1895
343	MAT-03942	ELEC-6.1.15	Fabrication, Transportation and supply of 1.5 Mtr Length Single Arm suitable size decorative galvanized Bracket with PU paint colour finish etc complete. Makes : As per list of recommended brands.	1 No	5650
344	MAT-03943	ELEC-6.1.16	Fabrication, Transportation and supply of 1.5 Mtr Length Double Arm suitable size decorative galvanized Bracket with PU paint colour finish etc complete. Makes : As per list of recommended brands.	1 No	10711

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
345	MAT-03944	ELEC-6.1.17	Fabrication, Transportation and supply of of 1.5mtrs sword type or any decorative double arm bracket with dooms either sides complete with all accessories with MS galvanized 40mm / 50mm dia Pipe. Makes : As per list of recommended brands.	1 No	6238
346	MAT-03945	ELEC-6.1.18	Fabrication, Transportation and supply of of 1.5mtrs sword type or any decorative Single arm bracket with dooms either sides complete with all accessories with MS galvanized 40mm / 50mm dia Pipe. Makes : As per list of recommended brands.	1 No	4826
347	MAT-03946	ELEC-6.1.19	Fabrication, Transportation and supply of of 1.0mtrs sword type or any decorative double arm bracket with dooms either sides complete with all accessories with MS galvanized 40mm / 50mm dia Pipe. Makes : As per list of recommended brands.	1 No	5061
348	MAT-03947	ELEC-6.1.20	Fabrication, Transportation and supply of of 1.0 mtrs sword type or any decorative Single arm bracket with dooms either sides complete with all accessories with MS galvanized 40mm / 50mm dia Pipe. Makes : As per list of recommended brands.	1 No	4237
			HIGH MAST POLES		
349	MAT-03948	ELEC-6.1.21	Fabrication, transportation and supply of 12 Mtrs Polygon High Mast with single section of 3mm thick of Bottom 360mm and Top 150mm dia with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate, having a base plate of size 520mm dia 16mm thick with its accessories. Mast shall be in single section for 12 Mtrs and 2 sections for 16 and 20 Mtrs. Mast shall be hot dip galvanized and suitable for wind velocity of 180 KMPH as per IS 875 part 3 including head frame, 2 point suspension system with steel rope 6mm dia (7/19) construction double drum winch / power tool operating speed of 900 RPM, and necessary cable trailer connections and single speed motor with M24 x 800 mm foundation bolts of required quantity, and GI Pipe ring suitable for fixing luminaires with LED type aviation twin lamp. Makes : As per list of recommended brands.	1 No	123585

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
350	MAT-03949	ELEC-6.1.22	Fabrication, transportation and supply of 16 Mtrs Polygon High Mast with two sections of Bottom 4mm thick and Top section with 3mm thick with GLS type aviation lamp of Bottom 360mm and Top 150mm dia with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate, having a base plate of size 560mm dia 25mm thick with its accessories. Mast shall be in single section for 12 Mtrs and 2 sections for 16 and 20 Mtrs. Mast shall be hot dip galvanized and suitable for wind velocity of 180 KMPH as per IS 875 part 3 including head frame, 2 point suspension system with steel rope 6mm dia (7/19) construction double drum winch / power tool operating speed of 900 RPM, and necessary cable trailer connections and single speed motor with M24 x 800 mm foundation bolts of required quantity and GI Pipe ring suitable for fixing luminaires with LED type aviation twin lamp. Makes : As per list of recommended brands.	1 No	162426
351	MAT-03950	ELEC-6.1.23	Fabrication, transportation and supply of 20 Mtrs Polygon High Mast with two sections of Bottom 4mm thick and Top section with 3mm thick of Bottom 460mm and Top 150mm dia with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate, having a base plate of size 670mm dia 25mm thick with its accessories. Mast shall be in single section for 12 Mtrs and 2 sections for 16 and 20 Mtrs. Mast shall be hot dip galvanized and suitable for wind velocity of 180 KMPH as per IS 875 part 3 including head frame, 2 point suspension system with steel rope 6mm dia (7/19) construction double drum winch / power tool operating speed of 900 RPM, and necessary cable trailer connections and single speed motor with M30 x 750 mm foundation bolts of required quantity and GI Pipe ring suitable for fixing luminaires with LED type aviation twin lamp. with GLS type aviation twin lamp. Makes : As per list of recommended brands.	1 No	210095
			FEEDER PILLAR BOXES		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
352	MAT-03951	ELEC-6.1.24	Supply and fixing of suitable out door type feeder pillar box made with 14 SWG CRCA sheet after 7 tank process including S & F 40-63A FP MCB, 6 Nos SP MCB's, din chanel, bus bars, 6 Sqmm 3 core copper cable for internal wiring, contactor, connectors and provision for energy meter etc., complete for finished item of work. Makes : As per list of recommended brands.	1 No	21539
353	MAT-03952	ELEC-6.1.25	Supply and fixing of suitable out door type feeder pillar box made with 14 SWG CRCA sheet after 7 tank process including S & F 40-63A FP MCB, 9 Nos SP MCB's, din chanel, bus bars, 6 Sqmm 3 core copper cable for internal wiring , contactor, connectors and provision for energy meter etc., complete for finished item of work. Makes : As per list of recommended brands.	1 No	22245
			ERRECTION- HIGH MAST POLES		
354	MAT-03953	ELEC-6.1.26	Earth work excavation with a approximate quantity of 4.0 Cum for erection of 12 Mtrs high mast and refilling with a quantity of 0.53 Cum of PCC 1:4:8, 1.50 Cum M 20 grade concrete and (80 Kgs) reinforced steel of 12mm / 10mm / 8mm, Soil bearing capacity of 10 T/Sqm, Anchor plate with cost and conveyance of all above materials including labour charges for erection of High Mast and Carraige etc complete.	1 No	33739
355	MAT-03954	ELEC-6.1.27	Earth work excavation with a approximate quantity of 6.0 Cum for erection of 16 Mtrs high mast and refilling with a quantity of 0.65 Cum of PCC 1:4:8, 2.60 Cum M 20 grade concrete and (110 Kgs) reinforced steel of 12mm / 10mm / 8mm, Soil bearing capacity of 10 T/Sqm, Anchor plate with cost and conveyance of all above materials including labour charges for erection of High Mast and Carraige etc complete.	1 No	42174

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
356	MAT-03955	ELEC-6.1.28	Earth work excavation with a approximate quantity of 7.0 Cum for erection of 20 Mtrs high mast and refilling with a quantity of 0.75 Cum of PCC 1:4:8, 3.60 Cum M20 grade concrete and (140 Kgs) reinforced steel of 12mm / 10mm / 8mm, Soil bearing capacity of 10 T/Sqm, Anchor plate with cost and conveyance of all above materials including labour charges for erection of High Mast and Carraige etc complete.	1 No	54173
357		ELEC-6.1.29	Supply of Sizes thermo plastic cable junction boxes with IP66/67 weather proof, for outdoor installation with konckouts for cable entry including terminals etc., complete (sizes in mm). Makes : As per list of recommended brands.		
	MAT-03956	a	155 X 210 X 92	1 No	1893
	MAT-03957	b	205 X 255 X112	1 No	2754
	MAT-03958	c	225 X 295 X 122	1 No	9695
	MAT-03959	d	255 X 600 X 170	1 No	10670
			FOUNDATION AND ERRECTION CHARGES OF POLES		
358	MAT-03960	ELEC-6.1.30	Erection charges for 7.50 Mts long Octagonal pole on bridge kerb portion with 4 Nos, 8" Anchor bolts with chemical treatment with suitable "J" type bolts etc duly drilling holes to RCC slab with V.C.C. M.15 concrete for suitable base concreting with necessary steel reinforcement work and curing for 7 days etc. including cost and conveyance of all material and all labour charges etc.complete as directed by the department officers.	1 Job	4990
359	MAT-03961	ELEC-6.1.31	Foundation and erection charges with special T&P, for 7.50 Mtrs long Octagonal /Conical pole duly erecting on base plate duly providing 4 Nos foundation bolts with nuts with providing of 0.45Mtr x 0.45Mtrs x1.20 Mtr size M20 cc work vibrated concreting mixing with necessary steel (10kgs) reinforcement and curing for 7 days as directed by the field engineers during execution including	1 Job	5821

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			excavation of Earth/BT all labour charges and cost and conveyance of materials etc.complete.		
360	MAT-03962	ELEC-6.1.32	Foundation and erection charges with special T&P, for 9.00Mtrs / 10Mtrs long Octagonal / Conical pole duly erecting on base plate duly providing 4 Nos foundation bolts with nuts with providing of 0.60Mtr x 0.60Mtrs x 1.40 Mtr size M20 cc work vibrated concreting mixing with necessary steel (15kgs) reinforcement and curing for 7 days as directed by the field engineers during execution including excavation of Earth/BT all labour charges and cost and conveyance of materials etc.complete.	1 Job	7841
361	MAT-03963	ELEC-6.1.33	Foundation and erection charges with special T&P, for 12Mtrs long Octagonal /Conical pole duly erecting on base plate duly providing 4 Nos foundation bolts with nuts with providing of 0.67Mtr x 0.67Mtrs x 1.50 Mtr size M20 cc work vibrated concreting mixing with necessary steel (20kgs) reinforcement and curing for 7 days as directed by the field engineers during execution including excavation of Earth/BT all labour charges and cost and conveyance of materials etc.complete.	1 Job	9623
			GRP POLES		
362		ELEC-6.1.34	Supply and transportation of following glass reinforced polymer (GRP) composite type Conical pole with single arm bracket of length 1Mtr and internal junction box including labour charges etc., complete. Makes : As per list of recommended brands.		
	MAT-03964	a	...do.... 3.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 180Km/Hr	1 No	10005
	MAT-03965	b	...do.... 4.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 180Km/Hr	1 No	12712

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03966	c	...do.... 6.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 180Km/Hr	1 No	15890
	MAT-03967	d	...do.... 8.00 Mtrs height, Bottom dia 193mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 180Km/Hr	1 No	20480
	MAT-03968	e	...do.... 9.00 Mtrs height, Bottom dia 210mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 180Km/Hr	1 No	22363
	MAT-03969	f	...do.... 10.00 Mtrs height, Bottom dia 227mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 180Km/Hr	1 No	32368
363		ELEC-6.1.35	Supply and transportation of base bracket suitable for glass reinforced polymer (GRP) composite type pole including labour charges etc., complete. Makes : As per list of recommended brands.		
	MAT-03970	a	...do.... For 3.00 Mtrs Pole	1 No	1824
	MAT-03971	b	...do.... For 4.00 Mtrs Pole	1 No	1824
	MAT-03972	c	...do.... For 6.00 Mtrs Pole	1 No	2177
	MAT-03973	d	...do.... For 8.00 Mtrs Pole	1 No	2531
	MAT-03974	e	...do.... For 9.00 Mtrs Pole	1 No	4826
	MAT-03975	f	...do.... For 10.00 Mtrs Pole	1 No	6003
		6.2	LT PANEL AND ACCESSORIES		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
364	MAT-03976	ELEC-6.2.1	Supply Installation Testing and commissioning of free standing floor mounted dust and vermin proof compartmentalised cubical panel made out of CRCA sheet, required hardware, duly painted by two coats of zinc/red oxide primer followed by Powder coated / epoxy / PU painted with phosphatisation in grey or required shade after rinsing. The panel having PU/Neoprene rubber gasket of not less than 3mm thickness, separate detachable, gland plate M.S. base channel, hinged door with locking arrangement for equipment/switchgear. Thickness of sheet shall not be less than 1.6mm up to 600mm length/width of any compartment and be of 2.0mm above 600mm. Load bearing structure shall be of 2.0mm thick sheet supported by base M.S. channel if required. Side walls and cable alley compartments having bolted type doors with detachable extension type structure (only outer area on all sides shall be measured and panel to be fabricated from CPRI approved fabricator).	1 sqm	5320
365		ELEC-6.2.2	Supply and fixing of..... bus bar by means of SMC / DMC type insulator, high tensile nuts and bolts spring washers in existing panel including bending , cutting in required shape and size and colour coding with heat shrinkable PVC sleeves		
	MAT-03977	a	Electrolytic grade aluminium bus bar	kg	469
	MAT-03978	b	Electrolytic grade copper bus bar	kg	990
366		ELEC-6.2.3	Supply and Fixing of (0-500) V range Volt meter on existing panel , making connection by PVC insulated copper conductor with PVC sleeves / channel etc. as required. Makes : As per list of recommended brands.		
	MAT-03979	a	Analog type (96 mm x 96 mm)	1 No	935
	MAT-03980	b	Digital type	1 No	2090
367		ELEC-6.2.4	Supply and Fixing of CT operated direct reading type Ammeter on existing panel , making connection by PVC insulated copper conductor with PVC sleeves / channel etc. as required.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands.		
			Analog type (96 mm x 96 mm)		
	MAT-03981	a	Below 500 A	1 No	935
	MAT-03982	b	Above 500A	1 No	935
			Digital type		
	MAT-03983	c	Below 500 A	1 No	2090
	MAT-03984	d	Above 500 A	1 No	2090
368		ELEC-6.2.5	Supply and Fixing of Current Transformer , with all necessary support in existing panel including connection etc. as required: Makes : As per list of recommended brands.		
	MAT-03985	a	up to 150 / 5 Ratio , 5 VA , class 1 accuracy	1 No	523
	MAT-03986	b	from 200 / 5 to 400/5 Ratio , 10 VA , class 1 accuracy	1 No	770
	MAT-03987	c	from 500 / 5 to 1600/5 Ratio , 15 VA , class 1 accuracy	1 No	1045
	MAT-03988	d	from 2000 / 5 to 3200 /5 Ratio , 15 VA, class 1 accuracy	1 No	1650
369	MAT-03989	ELEC-6.2.6	Supply and Fixing of selector switch for voltmeter (4 position) including making connection etc. as required Makes : As per list of recommended brands.	1 No	374
370	MAT-03990	ELEC-6.2.7	Supply and Fixing of CT linked selector switch of 10 A for Ampere meter (4position) including making connection etc. as required. Makes : As per list of recommended brands.	1 No	413
371		ELEC-6.2.8	Supply and fixing of single phase Electronic energy Meter,.....AC,50 HZ as per IS13010 up to 40A range with 200% over load capacity complete with connections etc., complete on the existing board. Makes : As per list of recommended brands.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03991	a	Single Phase	1 No	1100
	MAT-03992	b	Three Phase	1 No	3080
372		ELEC-6.2.9	Supply and Fixing of 240/220 V, LED (22.5 mm dia) Pilot lamp with integral circuit, terminal block, including connection etc. as required		
	MAT-03993	a	Red/yellow/Green colour	1 No	132
	MAT-03994	b	Blue colour	1 No	220
373		ELEC-6.2.10	Supply and Fixing of Tap-off boxes suitable for following size of approved design		
	MAT-03995	a	up to 95 sq. mm.(3.5/4 core)	1 No	440
	MAT-03996	b	from 120 sq. mm. to 185 sq. mm.(3.5/4 core)	1 No	770
374	MAT-03997	ELEC-6.2.11	Supply and Fixing of energy analyser (multy function energy meter) with LCD/LED display capable of minimum 20 numbers electrical parameters display with 1A/5A CT input for LV/ HV network, RS 485 communication port etc. complete in all respect.	1 No	11550
375		ELEC-6.2.12	Supply Installation Testing and commissioning of self healing MPP/MP type shunt capacitor (banks) conforming to IS:13340-41 / IEC :831-1&2 in existing panel or parallel with load terminals , the capacitor shall be fitted with discharge resistors, pressure sensitive disconnecter (PSD) and shall have dissipation factor less than 0.0025 at 50 Hz and total wattage loss less than 0.5 Watt per KVAR. including making connections with suitable capacity conductors/cables testing as required. Makes : As per list of recommended brands.		
	MAT-03998	a	Standard duty Single phase 250 V / Three phase 440 V, 50 Hz capacitor (Bank)	1 KVAR	237

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-03999	b	Heavy duty Three phase 440 V , 50 Hz capacitor (Bank)	1 KVAR	356
376	MAT-04000	ELEC-6.2.13	Supply Installation Testing and commissioning of microprocessor based intelligent power factor correction relay having sensitivity up to 50 milli Amp secondary current and following way, self analysing auto c/k setting according to targeted power factor setting, the relay shall have minimum three digit display unit for display of real power factor, targeted power factor, lag/lead capacitor switching status, alarm output for under current, over current, insufficient compensation, indication of switching on units, auto/manual status, and shall have over load protection, no volt release etc. as required. Makes : As per list of recommended brands.		
			6 to 14 stage - sensitivity upto 50 milli Amp	1 No	21958
377		ELEC-6.2.14	Supply and Fixing of Cam operated rotary switches on existing panel with 2 way and off position. Makes : As per list of recommended brands.		
			one pole		
	MAT-04001	a	16 A	1 No	415
	MAT-04002	b	32 A	1 No	534
	MAT-04003	c	63 A	1 No	771
			Two pole		
	MAT-04004	d	16 A	1 No	475
	MAT-04005	e	32 A	1 No	629
	MAT-04006	f	63 A	1 No	1039
			Three pole		
	MAT-04007	g	16 A	1 No	593
	MAT-04008	h	32 A	1 No	831
	MAT-	i	63 A	1 No	1484

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	04009				
			Four pole		
	MAT-04010	j	16 A	1 No	593
	MAT-04011	k	32 A	1 No	890
	MAT-04012	l	63 A	1 No	1662
378		ELEC-6.2.15	Supply and Fixing of ac operated heavy duty 230 /440 Volt power contactor conforming to IS:13947-4-1/IEC:947-4-1 having provision of mechanical interlocking, Din rail mounting type including making connections, testing etc. as required. Makes : As per list of recommended brands.		
			3 pole AC3 Rating contactors		
	MAT-04013	a	Up to 12 Amp	1 No	950
	MAT-04014	b	13 to 32 Amp	1 No	1573
	MAT-04015	c	35 to 40 Amp	1 No	1899
	MAT-04016	d	41 to 50 Amp	1 No	4154
			4 pole AC 1 Rating contactors		
	MAT-04017	e	Up to 25 Amp	1 No	1187
	MAT-04018	f	26 to 32 Amp	1 No	1424
	MAT-04019	g	33 to 45 Amp	1 No	2374
	MAT-04020	h	46 to 60 Amp	1 No	4985

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
379		ELEC-6.2.16	Supply and Fixing of 440 Volt 3 pole capacitor (AC 6 B) duty contactor with 3 no. early make and post break auxiliary contacts in series with quick dischargedamping resistors/ reactors to limit the inrush current ,conforming to IS:13947-4-1/IEC:947-4-1, Din rail mounting type ncluding making onnections, testing etc. as required. suitable for following capacity capacitor bank . Makes : As per list of recommended brands.		
	MAT-04021	a	Up to 6 KVAR	1 No	1899
	MAT-04022	b	7 to 10 KVAR	1 No	2136
	MAT-04023	c	11 to 20 KVAR	1 No	3205
	MAT-04024	d	21 to 25 KVAR	1 No	4273
	MAT-04025	e	30 KVAR	1 No	6172
	MAT-04026	f	40 KVAR	1 No	9851
	MAT-04027	g	50 KVAR	1 No	11394
380		ELEC-6.2.17	Supply and Fixing of thermal over load relay with built in single phase protection and having at least 1NO & 1NC contacts, manual /auto reset facility including making connection testing etc. as required. Makes : As per list of recommended brands.		
	MAT-04028	a	Up to 14 A	1 No	1424
	MAT-04029	b	15 to 20 A	1 No	1899
	MAT-04030	c	21 to 30 A	1 No	2730
	MAT-04031	d	31 to 40 A	1 No	3086
381		ELEC-6.2.18	Supply and Fixing of push button actuators and integral contact block of dia. 22.5 mm including making connection etc. as required. Makes : As per list of recommended brands.		
	MAT-	a	Non luminous type	1 No	113

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	04032				
	MAT-04033	b	Luminous type	1 No	154
		6.3	SUB STATION EQUIPMENT AND TRANSFORMERS		
382	MAT-04034	ELEC-6.3.1	Supply, Installation, Testing & Commissioning of HT metering cubical panel as approved By DISCOMs fabricated out of 14 SWG CRCA sheet steel in two compartment & MS angle of size 60mmX6mm having provision for Following: Makes : As per list of recommended brands.	1 No	28486
			(i) Provision for fixing Trivector Meter (To be supplied by DISCOMs)		
			(ii) Provision for fixing of combined CT PT Set (To be supplied by DISCOMs)		
			(iii) TT Block		
			(iv) 6mm Bakelite sheet on all sides.		
383	MAT-05547	ELEC-6.3.1a	Supply, Transportation, Installation and Commissioning of 11 KV, 630A, 25 KA Outdoor type Load Break Switch as detailed below with suitable CC foundation and 2 Nos GI pipe earthing with brick masonry chambers etc complete for finished item of work. Makes : As per list of recommended brands. a) Load break switch: 11KV,630A, 25 KA with fuse trip, earth switch, manually operated spring charged mechanism with 2 no + 2 NC. b) HT HRC fuse upto 63A - 3 nos. c) Bus bar connection. d) Indication lamps. e) Manual trip Push button.		142428
			33 KV HT Panel (drawout type)		
384		ELEC-6.3.2	Supply, Installation, Testing and Commissioning of indoor type floor mounted metal clad, Switchgear Panel enclosure of sheet steel preferably Aluzinc, dust tight, vermin proof, totally enclosed cubicle floor mounting, free standing type with single break, horizontally drawout type breaker with trip free mechanism as per latest standard i.e. IS/IEC 62271-200 as amended up to date and as per Technical specifications, IP4X for VCB Panel enclosure.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Switchgear Panel shall be electrically & mechanically interlocked as per IEC 62271-1, full voltage insulated copper Busbar with heat shrinkable sleeving, complete with suitable metering & protection devices, breaker featured with mechanical ON-OFF indicator with hand trip device and all accessories such as shunt trip coil, motorized & manually operated spring charging mechanism, emergency trip push buttons, auxiliary switch of 2NO + 2NC, interconnections, space heaters, panel earthing etc. and equipped with following switchgear and accessories including connection suitable for 3x185 to 3x 400 sqmm XLPE 33 kV cable (cable entry from bottom) to be connected through heat shrinkable jointing material etc as required. (Note - Cost of end termination not included in this item.) Makes : As per list of recommended brands.		
			<u>INCOMER/OUTGOINGS 1 No. each comprising the following</u>		
			1 No. 800 Amp. VCB. 31.5KA		
			1 No. Integral Earth switch for line side earthing		
			3 No. dual core CTs 600A/1/1A of 7.5VA burden max and accuracy Class 0.5 for metering and class 5P10 for protection		
			3 No. Cast Resin 33000V/v3/110V/v3/110V/v3 PT Class 0.5/3P accuracy and 30VA burden max with and protection fuses / MCB.		
			1 No. Digital voltmeter with selector switch.		
			1 No. Digital Ammeter with selector switch.		
			1 No. Microprocessor based numerical relays with O/L, E/F and S/C protection with Integrated Arc sensing feature alongwith trip/lockout / antipumping / aux. relays.		
			1 No. Multi-function meter.		
			Set of MCBs for Panel AC/DC		
			Set of MCBs for Main AC/DC		
			Set of Indication lamps LED types		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			TNC Switch, L-R Switch, Pushbuttons for ON-OFF		
	MAT-04035	a	33 KV 800A VCB Panel with 3 Nos. VCBs suitable for 50Hz 3-phase system, suitable for 31.5kA/3sec short circuit withstand capacity & 31.5kA/1sec Internal Arc capacity	1 No	3151220
		b	33 KV 800A VCB Panel with 1 Nos. VCBs suitable for 50Hz 3-phase system, suitable for 31.5kA/3sec short circuit withstand capacity & 31.5kA/1sec Internal Arc capacity	1 No	1050400
			11KV HT Panel (drawout type)		
385		ELEC-6.3.3	Supply, Installation, Testing and Commissioning of indoor type floor mounted metal clad, Switchgear Panel enclosure of sheet steel preferably Aluzinc, dust tight, vermin proof, totally enclosed cubicle floor mounting, free standing type with single break, horizontally drawout type breaker with trip free mechanism as per latest standard i.e. IS/IEC 62271-200 as amended up to date and as per Technical specifications, IP4X for VCB Panel enclosure. Switchgear Panel shall be electrically & mechanically interlocked as per IEC 62271-1, full voltage insulated copper Busbar with heat shrinkable sleeving, complete with suitable metering & protection devices, breaker featured with mechanical ON-OFF indicator with hand trip device and all accessories such as shunt trip coil, motorized & manually operated spring charging mechanism, emergency trip push buttons, auxiliary switch of 2NO + 2NC, interconnections, space heaters, panel earthing etc. and equipped with following switchgear and accessories including connection suitable for 3x185 to 3x 400 sqmm XLPE 11kV cable (cable entry from bottom) to be connected through heat shrinkable jointing material etc as required. (Note - Cost of end termination not included in this item.) Makes : As per list of recommended brands.	1No	1479500
			<u>INCOMER /OUTGOINGS 1 No. each comprising the following</u>		
			1 No. 800 Amp. VCB. 26.3KA		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			1 No. Integral Earth switch for line side earthing		
			3 No. dual core CTs 600A/1/1A of 7.5VA burden max and accuracy Class 0.5 for metering and class 5P10 for protection		
			3 No. Cast Resin 11000V/v3/110V/v3/110V/v3 PT Class 0.5/3P accuracy and 30VA burden max with and protection fuses / MCB.		
			1 No. Digital voltmeter with selector switch.		
			1 No. Digital Ammeter with selector switch.		
			1 No. Microprocessor based numerical relays with O/L, E/F and S/C protection with Integrated Arc sensing feature alongwith trip/lockout / antipumping / aux. relays.		
			1 No. Multi-function meter.		
			Set of MCBs for Panel AC/DC		
			Set of MCBs for Main AC/DC		
			Set of Indication lamps LED types		
			TNC Switch, L-R Switch, Pushbuttons for ON-OFF		
	MAT-04036	a	11 KV 800A VCB Panel with 3 Nos. VCBs suitable for 50Hz 3-phase system, suitable for 26.3kA/3sec short circuit withstand capacity & 26.3kA/1sec Internal Arc capacity	1 No	1596381
		b	11 KV 800A VCB Panel with 1 Nos. VCBs suitable for 50Hz 3-phase system, suitable for 26.3kA/3sec short circuit withstand capacity & 26.3kA/1sec Internal Arc capacity	1 No	540000
			Oil Immersed TRANSFORMERS		
386		ELEC-6.3.4	Supply and Transportation of copper wound Transformers 33/0.433 KV, Three Phase, 50 Hz, DYN 11, ONAN type , Standard accessories, winding temperature rise of 45°C/40°C first fill oil, having permissible total loss values not exceeding 7.5%of the maximum total loss values for 33 KV as per energy efficiency level - 2 at basic Insulation level conforming to ISS 2026 (Part- I to Part - II), latest ammended and IS 1180 Part-I : 2014 described as above with Cable box on HV side and Bus duct on LV Side , ON load Tap changer(OLTC) with RTCC etc., with initial filling of oil as per IS 335-1993 complete and as per the following continuous rating.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands as category I.		
	MAT-04037	a	deleted	1 No	
	MAT-04038	b	deleted	1 No	
	MAT-04039	c	1250 KVA	1 No	2587500
	MAT-04040	d	1600 KVA	1 No	3208500
	MAT-04041	e	2000 KVA	1 No	3967500
		f	2500 KVA	1 No	4364000
		ELEC-6.3.4 A	Deleted		
	MAT-08768	ELEC-6.3.4 A a	Deleted		980000
	MAT-08769	ELEC-6.3.4 A b	1000 KVA		1250000
	MAT-08770	ELEC-6.3.4 A c	1250 KVA		1500000
	MAT-08771	ELEC-6.3.4 A d	1600 KVA		1860000
	MAT-08772	ELEC-6.3.4 A e	2000 KVA		2300000
387		ELEC-6.3.5	Supply, Transportation, Installation, Testing and Commissioning of ----- KVA TRANSFORMER with all test reports. The Transformer shall be designed and manufactured as per Energy Efficiency Level - 2 at basic Insulation level conforming to ISS 2026 (Part- I to Part - II) with latest ammended,and as per IS 1180 Part-I : 2014 latest ammended, OCTC with initial filling of oil as per IS 335-1993. The basic details of the Transformer are as under. Makes : As per list of recommended brands as category I.		
			1. Quantity : 1 2. Rated KVA :KVA		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			<p>3. Service & Location: Continuous Outdoor Distribution Transformer</p> <p>4. Mounting : Plinth.</p> <p>5. Wound : Copper Double wound</p> <p>6. Type : Core type oil immersed</p> <p>7. Cooling : ONAN</p> <p>8. Temp Rise : 40°C in oil, 45°C by resistance</p> <p>9. Vector Group: Dyn 11</p> <p>10. Primary Connection : Delta</p> <p>11. Nominal Voltage / Current : —</p> <p>12. Highest system Voltage: 12000V</p> <p>13. Primary Frequency :50 HZ +/- 3%</p> <p>14. Number of Phases : 3</p> <p>15. Primary wires: 3</p> <p>16. Secondary connection : Star</p> <p>17. Secondary Volts / Current : 433V</p> <p>18. Secondary phases : 3</p> <p>19. Secondary wires: 4</p> <p>20. Taps on primary winding for primary voltage variation : +5% to - 10% in steps of 2.5% of 7 position (6 Steps)</p> <p>21. Terminal arrangement.</p> <p>a.HV: HT terminal box as per the sitecondition.</p> <p>b. LV: Cable box suitable to receive ----- --Sq.mm XLPE cable</p> <p>22. LV:One separate terminal for earthing.</p> <p>23. Total Losses at 50% Loading [Watts] [Max] --- as per IS</p> <p>24. Total Losses at 100% Loading [Watts] [Max]--- as per IS</p> <p>25. Percentage Impedance at 75 deg. C at -----as per IS</p> <p>26. No Load current: Less than 2% of full load current.</p> <p>27. Standard Fittings & Accessories.</p> <p>a. Rating and terminal marking plate: One</p> <p>b. Lifting Lugs: Two</p> <p>c. Off-circuit tap switch :One</p> <p>d. Earthing Terminals :Two</p> <p>e. Radiators (Attachable):Adequate</p> <p>f. Explosion vent with Diaphragm :One</p> <p>g. Conservator with Drain plug: one</p> <p>h. Oil filling hole with cap :One</p> <p>i. Oil level indicator : One</p> <p>j. Dehydrating Silica gel Breather : One</p>		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			k. Terminal Arrangement: HV With TerminalBox l. Terminal Arrangement : LV Cable Box m. Separate Neutral Bushing : One n. Drain cum filter valve with blanking plate: One o. Air release device : One p. Thermometer Pocket : One q. Four :Unidirectional flat rollers r. One :10Cm dial thermometer (Rigid stemtype)		
	MAT-04042	a	100 KVA Copper Wound Transformer	1 No	414000
	MAT-04043	b	160 KVA Copper Wound Transformer	1 No	683100
	MAT-04044	c	250 KVA Copper Wound Transformer	1 No	819950
	MAT-04045	d	315 KVA Copper Wound Transformer	1 No	1092500
	MAT-04046	e	500 KVA Copper Wound Transformer	1 No	1434050
	MAT-04047	f	Deleted	1 No	
	MAT-04048	g	Deleted	1 No	
388		ELEC-6.3.5 A	Deleted		
	MAT-08773	a	Deleted	1 No	
	MAT-08774	b	Deleted	1 No	
	MAT-08775	c	Deleted	1 No	
	MAT-08776	d	Deleted	1 No	
	MAT-08777	e	Deleted	1 No	
	MAT-08778	f	Deleted	1 No	
	MAT-08779	g	deleted	1 No	
389		ELEC-6.3.5 B	Supply and Transportation of ISI marked copper wound Transformers		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			11/0.433 KV, Three Phase, 50 Hz, DYN 11, ONANtype , Standard accessories, winding temperature rise of 45°C/40°C first fill oil, having permissible total loss values not exceeding 7.5%of the maximum total loss values for 11 KV as per Energy Efficiency Level - 2 at basic Insulation level conforming to ISS 2026 (Part- I to Part - II), latest ammended and IS 1180 Part-I : 2014 described as above with Cable box on HV side and Bus duct on LV Side , ON load Tap changer(OLTC)+10% to -10%, with RTCC etc., with initial filling of oil as per IS 335-1993 complete and as per the following continuous rating. Makes : As per list of recommended brands as category I.		
	MAT-08780	a	630 KVA	1 No	1991250
	MAT-08781	b	1000 KVA	1 No	2510000
		ELEC-6.3.5 C	Deleted		
	MAT-08782	ELEC-6.3.5 C a	Deleted	1 No	
	MAT-08783	ELEC-6.3.5 C b	Deleted	1 No	
			Dry Type transformers		
390		ELEC-6.3.6	Supply ,Transportation of cast Resin (Dry Type) indoor type copper double wound 33KV/0.433 KV, Three Phase 50 HzTransformers desinged and manufactured as per IS 11171/IEC 60726 , ANSI and NEMA Standards with all standard fittings,connected Delta on Primary side and Star on Secondary side with additional neutral brought out on load side 33000/433V with HV off load tap changing +5% to -15% temperature rise by the resistance 90 degrees with terminal arrangement Cable box on HV side and Bus duct on LV Side with off circuit Tap links etc.,, complete Makes : As per list of recommended brands.		
	MAT-04049	a	1000 KVA	1 No	4571250
	MAT-04050	b	1250 KVA	1 No	5692500
	MAT-04051	c	1600 KVA	1 No	6882750
	MAT-04052	d	2000 KVA	1 No	8280000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-04053	e	2500 KVA	1 No	9315000
391		ELEC-6.3.7	Supply, Transportation, Installation, Testing and Commissioning of 3 Phase, 50 Hz, Dry type, Indoor type copper wound Transformer designed and manufactured as per IS 2026-1977 and IS 11171-1985, connected delta on primary side and Star on secondary side with additional neutral brought out on load side, 11000V / (433V /415V) with HV off load tap changing + 5% to -5% in steps of 2.5%, temperature rise by the resistance 90°C complete with test reports with the following standard mountings. Makes : As per list of recommended brands.		
			1. Rated KVA :KVA (Cast Resin)		
			2. Service: Indoor		
			3. Mounting : Floor.		
			4. Copper wound : Double.		
			5. Type of cooling : ANAN.		
			6. Insulation Class : Class F		
			7. Temperature rise by resistance : 90°C		
			8. Vector Group: Dyn 11		
			9. Primary Connection : Delta		
			10. Primary Volts : 11000		
			11. Primary Frequency : 50		
			12. Primary Phases : 3		
			13. Primary wires: 3		
			14. Secondary connection : Star		
			15. Secondary Volts : 433V / 415V		
			16. Secondary phases : 3		
			17. Secondary wires: 4		
			18. Taps on primary winding for primary voltage variation : +5.0% to - 10.0% in steps of 2.5% through links.		
			19. Terminal arrangement.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			a. HV: Cable end box b. LV : Cable end box		
			20. No load losses (Watts): As per IS specifications		
			21. Load losses (Watts): .....As per IS specifications		
			22. Impedance(Z%) :As per IS specifications		
			23. Fittings & Accessories.		
			a. Rating and terminal marking plate b. Earthing terminals		
			c. Lifting Lugs		
			d. Winding temperature Indicator		
			e. Separate neutral bushing		
			f. Uni directional flat rollers.		
	MAT-04054	a	250 KVA Copper Wound Cast Resin Transformer		915400
	MAT-04055	b	315 KVA Copper Wound Cast Resin Transformer		1052250
	MAT-04056	c	500 KVA Copper Wound Cast Resin Transformer		1434050
	MAT-04057	d	630 KVA Copper Wound Cast Resin Transformer		1570900
	MAT-04058	e	750 KVA Copper Wound Cast Resin Transformer		1844600
	MAT-04059	f	1000 KVA Copper Wound Cast Resin Transformer		2323000
		6.4	MAINTENANCE AND REPAIRS OF TRANSFORMERS		
392	MAT-04060	ELEC-6.4.1	Carryout routine maintenance, servicing and testing of 630A to 1000A L.T.ACB by cleaning fixed contacts, moving contacts and arcchutes including servicing and putting the ACB in perfect working condition after detting all relay and ON, OFF mechanism etc done with only manufacturing companies	1 No	5940

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
393	MAT-04061	ELEC-6.4.2	Carryout routine maintenance and servicing of LT.Cubical pannel board having approximately 15 to 22 Nos of switches cleaning with power blower and servicing the contacts, tightening the connection of incoming and outgoing cables, and checking the operating machanism for smooth functioning of switches and putting them in smooth working condition.	1 No	3564
394	MAT-04062	ELEC-6.4.3	Routine maintenance of transformer, including testing of insulation resistance, oil break down strength. Reconditioning / replacement of silicazel, cleaning of transformer and topping upto oil level if required (extra cost will be paid for oil).	1 No	5346
395	MAT-04063	ELEC-6.4.4	Testing of Transformer oil for dielectric breakdown strength.	1 No	713
396		ELEC-6.4.5	Removing the existing transformer from the plinth / Pole and refixing the standby transformer of following capacity including connections etc., complete.....		
	MAT-04064	a	up to 315 KVA	1 No	4158
	MAT-04065	b	500 / 1000 KVA	1 No	5346
397		ELEC-6.4.6	Replacing old and unserviceable gasket of top cover plate of transformer having following capacity. -.....		
	MAT-04066	a	up to 315 KVA	1 No	891
	MAT-04067	b	500 / 1000 KVA	1 No	1188
398		ELEC-6.4.7	Replacing old and unserviceable gasket of bushing for the following Transformer capacity. -.....		
	MAT-04068	a	up to 315 KVA HT,	1 No	416
	MAT-04069	b	500 / 1000 KVA HT,	1 No	891
	MAT-04070	c	up to 315 KVA LT,	1 No	1069

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-04071	d	500 / 1000 KVA LT,	1 No	1782
399		ELEC-6.4.8	Replacement the H T / L. T burntout winding coils of distribution transformer including rewinding, varnishing and vaccuming etc.,duly retaining the removed burnt winding coils by the Contractor / Firm-		
	MAT-04072	a	For copper coils	1 Kg	713
	MAT-04073	b	For aluminium coils	1 Kg	475
400	MAT-04074	ELEC-6.4.9	Insulating HT / LT copper / aluminium coils for Transformers.	1 Kg	387
401		ELEC-6.4.10	Painting to transformer with 2 coats Zinchromate red oxide duly scraping existing paint followed by 2 coats of hammerton grey paint etc., complete. -.....		
	MAT-04075	a	Upto 500 KVA	1 No	4158
	MAT-04076	b	630 / 1000 KVA	1 No	5346
402		ELEC-6.4.11	Replacing for distribution Transformer by new one.		
	MAT-04077	a	H.T bushing	1 No	416
	MAT-04078	b	H.T bushing with metal parts	1 No	475
	MAT-04079	c	L.T bushing Upto 315 KVA	1 No	238
	MAT-04080	d	L.T bushing 500 / 1000 KVA	1 No	297
	MAT-04081	e	L.T bushing rod with metal parts up to 315 KVA	1 No	594
	MAT-04082	f	L.T bushing rod with metal parts 500/1000 KVA	1 No	2198
403		ELEC-6.4.12	Drying the repaired transformer with appropriate heat / air of following capacity of transformers.-		
	MAT-04083	a	Upto 315 KVA	1 No	5227

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-04084	b	500 / 1000KVA	1 No	6534
404		ELEC-6.4.13	Loading, transportation and Unloading of transformer from site to Workshop or vice verse.		
	MAT-04085	a	Upto 500 KVA	1 No	5346
	MAT-04086	b	630 / 1000 KVA	1 No	8316
405	MAT-04087	ELEC-6.4.14	Supply of new and tested transformer oil as per IS-335 - 1972 (per Ltr)	1 Ltr	143
406		ELEC-6.4.15	Filtration of transformer oil as per ISS specifications filters to dielectric strength above 40KV		
	MAT-04088	a	at site. (per Ltr) excluding transportation	1 Ltr	12
	MAT-04089	b	at workshop (per Ltr)	1 Ltr	9
		6.5	OVERHEAD LINES& LINE MATERIALS		
407		ELEC-6.5.1	Supply and transportation of .....PSCC Poles		
	MAT-04090	a	8.0 Mtr ,Working load-140 Kgs	1No	2415
	MAT-04091	b	8.0 Mtr ,Working load-200 Kgs	1No	3450
	MAT-04092	c	9.1 Mtr ,Working load-280 Kgs	1No	4910
408		ELEC-6.5.2	Supply and transportation of 9 mtr length .....RS Joist Poles		
	MAT-04093	a	150 x 75 mm(Wt of the pole-140 Kgs)	1No	10500
	MAT-04094	b	175 x 85 mm(Wt of the pole-215Kgs)	1No	16125
	MAT-04095	c	150 x 150 mm(Wt of the pole-333 Kgs)	1No	24975
409		ELEC-6.5.3	Supply and erection of GI stay set of dia..... including stay clamps , turn buckle and GI stay wire tight end through strain insulator including excavation of pit and cc work etc.,complete		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-04096	a	20mm,2.4 mtr long stay rod and anchor plate 380mmx380mmx6.4mm	1 set	2245
	MAT-04097	b	16mm,1.8 mtr long stay rod and anchor plate 380mmx380mmx6.4mm	1 set	1699
410		ELEC-6.5.4	Supply and fixing of 11KV -V- cross arms with .....duly welded with necessary clamping arrangements etc., complete		
	MAT-04098	a	75x40 mm MS channel including 4 nos 50 x 50 x6 mm packing plates (9 Kgs)	1 No	1494
	MAT-04099	b	65 x65 x6 MS angle (8.2 Kgs)	1 No	1058
411		ELEC-6.5.5	Supply and fixing of LT 3 phase 4 wire cross arm of length 3' 8" with..... and necessary clamping arrangements ,cutting ,drilling and welding etc., complete		
	MAT-04100	a	50 x 50 x6 mm MS angle (wt 5.75 Kgs)	1 No	517
	MAT-04101	b	65 x65 x6 MS angle (wt 7 Kgs)	1 No	610
412		ELEC-6.5.6	Supply and fixing of LT 3 phase 5 wire cross arm of length 4' 5" with..... and necessary clamping arrangements ,cutting ,drilling and welding etc., complete		
	MAT-04102	a	50 x 50 x6 mm MS angle (wt 7.30Kgs)	1 No	667
	MAT-04103	b	65 x65 x6 MS angle (wt 9.60 Kgs)	1 No	841
413	MAT-04104	ELEC-6.5.7	Supply and fixing of LT single phase 3 wire cross arm with 50 x 50 x6 mm MS angle of 2' 5" (wt 4.20 Kgs) and necessary clamping arrangements ,cutting ,drilling and welding etc., complete		411
414	MAT-04105	ELEC-6.5.8	Supply and fixing of 11 KV pin Insulator (IS 731/1971) with minimum creepage distance of 300 mm on existing cross arm including all accessories like Hot dip GI spindle and nuts etc.,	220	220
415		ELEC-6.5.9	Supply and fixing of LT pcelain pininsulator as per IS 1447-1997 suitable for working voltage 1100 V including all accessories like Hot dip GI spindle and nuts etc.,		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-04106	a	100 x 65 mm	each	97
	MAT-04107	b	100 x 85 mm	each	109
415		ELEC-6.5.10	Supply and fixing of LT porcelain shackle insulator as per IS 1443-1979 suitable for working voltage 1100 V including all accessories like Hot dip GI spindle and nuts etc.,		
	MAT-04108	a	75 x 90 mm	each	169
	MAT-04109	b	100 x 110 mm	each	206
416	MAT-04110	ELEC-6.5.11	Supply and fixing of distribution type lightning arrester 11 KV 5 kA as per IS 3070 with mounting base on the existing DP structure	each	3025
417	MAT-04111	ELEC-6.5.12	Supply and fixing of 100 A 11 KV Horn Gap fuse set as per IS 9385 on existing DP structure with 6 nos 24 KV /22 KV post Insulators(IS 5350, Hot dipped Hard ware, fuse wire of required size etc., complete	each	6655
418	MAT-04112	ELEC-6.5.13	Supply and fixing of 11 KV danger plates on the existing poles	each	121
419	MAT-04113	ELEC-6.5.14	Supply and fixing of 11 KV ,400 A 3 phase central post rotating double break type AB switch(isolator) as per IS 9921) without earth blade,gang operated ,Horizontal type,operating mechanism with GI spring loaded reverse loop type fixed contact,solid HD electrolytic copper tubular moving contact with silver/Nicle plated at end points,9 Nos post insulators of 12 Kv(IS 2594 and IS 5350) ,Hot Dip galvenizing hardware,GI pipe,Nuts and bolts etc., complete.,	each	21780
420		ELEC-6.5.15	Supply and Transportation of Over Head Conductor as per IS 398 (PART - II) : 1996		
		a	7/3.55 ACSR Rabbit (214 Kg/KM)	1KM	
		b	7/2.59 ACSR weasel (128 Kg/KM)	1KM	
		c	7/2.11 ACSR squirrel (85 Kg/KM)	1KM	
	MAT-04114	d	100 sqmm AAA	1KM	102248

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-04115	e	55 sqmm AAA	1KM	67000
	MAT-04116	f	34 sqmm AAA	1KM	36000
421		ELEC-6.5.16	Supply and erecting fencing section having size 2045 mt height from ground level and 1.2 mt width by using angle iron size 50 x50 x6 mm erected in cc foundation 15 x15x40 cm deep . The section of the frame shall be fitted with flat iron support of size 25 x 6 mm on top , bottom an dmid way and chain link jolley of 3.26 mm dia /10 SWG GI hard wire mesh of 50 x50 mm to the angle iron at every distance of 30 cm , by iron studs complete duly painted with one coat of red oxide and 2 coats of aluminium paint,	1 No	As per DATA
423		ELEC-6.5.17	Supply and erecting double leaf hinged door each 150 cm in width and 180 cm in height using 40 mm dia B grade ISI mark GI pipe from all 4 sides with necessary bends and cross supports of angle iron 45 X45 X5 mm with the door leaf covered with chain links jolley 50 X 50 mm made from 3.26 mm dia/10 SWG Gi wire with necessary flat iron covering all round with necessary no of spikes of size 10 mm dia at top and bottom at 150 mm apart to match the height of fencing. The door shall have latches and side channel of 100 X50 X5 mm regidly welded for providing locking arrangement Godrej/Navtal make medium size lock with duplicate keys, fencing completely erected and painted with anti corrosive red oxide paint and 2 coats of prescribed enamel paint/silver paint. The Channel iron of size 150X75 mm by 2.5 mtr long shall be provided and erected at both sides of gate.	1 No	As per DATA
424		ELEC-6.5.18	Supply and erecting 50 X50X6 mm angle iron corner support 0.5 mt way from the fence supports fixed at the middle fencing frame and other side in cc foundation 15 X15X 40 cm complete duly painted with 1 coat of red oxide and 2 coats of alluminum paint.	1 No	As per DATA
425		ELEC-6.5.19	Providing and spreading HBG metal of size 40 mm size for 100 mm depth above the ground level.		As per DATA

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
426	MAT-05548	ELEC-6.5.20	Providing transformer plinth 1.2 x 1.2 x 1.5 mtr in size with necessary excavation in ground at the bottom with 150mm thick 1:2:4 cement concrete raft at the bottom and top and 225mm thick wall constructed in stone masonry and remaking hollow portion shall be filled with stone chips duly plastered 20mm thick outsides including watering etc., complete.	1 No	12100
427	MAT-05549	ELEC-6.5.21	Providing CTPT plinth 600mm x 600mm x 2.1 mtr in size with necessary excavation in ground at the bottom with 150mm thick 1:2:4 cement concrete raft at the bottom and top duly plastered 20mm thick outsides including watering etc., complete.	1 No	7260
		6.6	LIGHTENING PROTECTIVE SYSTEM		
			Advanced LPS		
428	MAT-05550	ELEC-6.6.1 a	Supply of ESE Air Terminal of external wide area of protection system based on proactive Early Steamer Emission (ESE) Technology manufactured in accordance with NFC 17-102:2011 , is made of high-quality, non corrosive and weather resistant XL-304 Stainless Steel Having triggering advance $\tau = 30\mu\text{s}$, Protection Radius ranging from 48 Meters in Level-I to 71 Meters in Level-IV when installed on a 5 Meters Mast. ESE terminal is capable to withstand Current Impulses of 40kA (5 Shots of 8/20 μs wave shape) and having capturing rod dia of 25mm. Makes : As per list of recommended brands.	1 No	114950
429	MAT-05551	ELEC-6.6.1 b	Supply of ESE Air Terminal of external wide area of protection system based on proactive Early Steamer Emission (ESE) Technology manufactured in accordance with NFC 17-102:2011 , is made of high-quality, non corrosive and weather resistant XL-304 Stainless Steel Having triggering advance $\tau = 50\mu\text{s}$, Protection Radius ranging from 68 Meters in Level-I to 95 Meters in Level-IV when installed on a 5 Meters Mast. ESE terminal is capable to withstand Current	1 No	121000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Impulses of 40kA (5 Shots of 8/20 μ s wave shape) and having capturing rod dia of 25mm. Makes : As per list of recommended brands.		
430	MAT-04117	ELEC-6.6.1 c	Supply of ESE Air Terminal of external wide area of protection system based on proactive Early Steamer Emission (ESE) Technology manufactured in accordance with NFC 17-102:2011 , is made of high-quality, non corrosive and weather resistant XL-304 Stainless Steel Having triggering advance $t = 60\mu$ s, Protection Radius ranging from 79 Meters in Level-I to 107 Meters in Level-IV when installed on a 5 Meters Mast. ESE terminal is capable to withstand Current Impulses of 40kA (5 Shots of 8/20 μ s wave shape) and having capturing rod dia of 25mm. Makes : As per list of recommended brands.	1 No	137940
431	MAT-04118	ELEC-6.6.2	Installation and commissioning of advanced lighting protection systems which includes 1. Laying of CC Bed 2. Installation of Lighting Rod 3. Laying of Down conductor 4. Installation of Counter 5. Installation of GI Mast with stay wire. 6. Termination of down conductor to earth bus etc complete.	1 No	35090
432	MAT-04119	ELEC-6.6.3	Supply of 6 Digit Electronic/Mechanical counter Makes : As per list of recommended brands.	1 No	18150

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
433	MAT-04120	ELEC-6.6.4	Supply of G.I mast of 5 Meters length, 50 mm Dia, with FRP Collar (Insulating Bush) Base Plate & Complete Fitting Accessories with Supporting Guy Wire (Stay Wires) and all fitting accessories	1 Set	7260
434	MAT-04122	ELEC-6.6.5	Supply and Installation of IEC 62561-7 compliant Eco-friendly, Maintenance free, anti-corrosive, lead-free, super conductive, mineral based high-grade earthing compound, To enhance soil conductivity. With resistance <0.12 ohms-meter, Sulphur Free, Should be tested as per IEC-62561-7 for resistance Toxic Elements, Leachable elements etc. 25 Kg Bag Makes : As per list of recommended brands.	1 No	2662
435	MAT-04123	ELEC-6.6.6	Supply of Bentonite Moisture Retaining Powder 30 Kg Bag	1 No	206
436	MAT-04124	ELEC-6.6.7	Supply of Concrete Earth Pit of Dimensions: Width: 320 mm, Length: 320 mm, Height: 192mm, Weight 30 Kgs, Load bearing Capacity: 5000 Kgs	1 No	1815
			CONVENTIONAL LPS AS PER IS/IEC 62305		
			Air Terminal		
437	MAT-04125	ELEC-6.6.8	Supply, installation, testing and commissioning of 8 mm Aluminum Round Conductor complete as per requirements of DIN EN 50164-2 (VDE 0185 part 202) & VDE 0185-305 (IS/IEC 62305)	1 RM	109
438	MAT-04126	ELEC-6.6.9	Supply, installation, testing and commissioning of Roof conductor holder for parapet- Polyamide Conductor holder: With M8 female thread or diameter 7mm, M8 Screw to connect the conductor holder. Weather and temperature resistant from -35 to +90 degree Celsius tested. Conductor holder @ 1 meter distance	each	61
439	MAT-04127	ELEC-6.6.10	Supply, installation, testing and commissioning of Polyamide roof cable holder for flat roof: DIN 48829 Form B1. Closed form with bottom. Filling weight 1Kg (frost-resistant concrete). Sleeve from polyethylene, black @ 1 meter distance.	each	157
440	MAT-04128	ELEC-6.6.11	Supply, installation, testing and commissioning of Fang Fix Junior system - Inclusive of Al interception rod of 1Mtr length(10mm dia) , Quick mounting of the interception rod in the base using plug technology	each	1997

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
441	MAT-04129	ELEC-6.6.12	Supply, installation, testing and commissioning of cross universal connector: For T and cross connection, to route vertical down conductor /mesh formation made of hot dipped galvanised iron with necessary screws etc as required. Installed with 4 hexagonal bolts M8*25 with M8 hexagonal nuts	each	160
442	MAT-04130	ELEC-6.6.13	Supply, installation, testing and commissioning of expansion piece with connector: For equalising temperature related length changes. Necessary on conductors length over 20 meters. For round conductor Rd 8/ALU.Connector: For T cross and parallel connectors. Quick installation using hexagonal bolt M10X30 high-grade hot dip galvanised. Conforms to the requirements according to DIN VDE 0185-305 (IS-IEC 62305)(2nos/expansion piece).	each	479
			DOWN CONDUCTOR		
443	MAT-04131	ELEC-6.6.14	Supply, installation, testing and commissioning of 8 mm Aluminum Round Conductor complete as specified in drawing & Meets the requirements of DIN EN 50164-2 (VDE 0185 part 202) & VDE 0185-305 (IS/IEC 62305)	1 RM	109
444	MAT-04132	ELEC-6.6.15	Supply, installation, testing and commissioning of Roof conductor holder for parapet- Polyamide Conductor holder: With M8 female thread or diameter 7mm, M8 Screw to connect the conductor holder. Weather and temperature resistant from -35 to +90 degree Celsius tested. Conductor holder @ 1 meter distance	each	61
445	MAT-04133	ELEC-6.6.16	Supply, installation, testing and commissioning of Test Joint (Folding Clamp) suitable to connect 8mm round conductor and max by 30x3 mm GI strip as specified in drawing and directed by Engineer	each	375
446	MAT-04134	ELEC-6.6.17	Supply, installation, testing and commissioning of Lightning counter - To count no of lightning strike & it can record the date and time of the lightning incident also tested as per IEC 62561-6.	each	19965
		6.7	EARTHING		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
447	MAT-04135	ELEC-6.7.1	Providing earth electrode of low carbon steel rod, UL listed of 17.2 mm dia, 3 Mtr long, coated with copper of 254 microns thickness, CPRI tested for short time current withstand test of 25 kA, coating thickness, environmental test (Salt Mist Test), Bend test, Tensile strength, Yield / tensile ratio, Electrical Resistivity test, complete with clamps and 2 bags of (Earthplus ULTRA /TIRUMALA) high grade earthing compound IEC 62561-7 complaint Eco-friendly, Maintenance free, anti corrosive, lead-free, super conductive, mineral based high-grade earthing compound, to enhance soil conductivity. With resistance <0.20 ohms-meter, should be leach proof & sulphur free complete with earth inspection chamber of dimensions : Width : 320 mm x 320 mm, Height : 192 mm, Weight : 30 Kgs, Load bearing capacity : 5000 Kgs	1 No	11495
448	MAT-04136	ELEC-6.7.2	Providing earthing as per IS 3043 with perforated 3 mtr long 40 mm dia B class GI pipe including all accessories like nuts bolts reducer,nipple, wire meshed funnel andCCfinished chamber covered with hinged type with CI cover ,CI frame of size 300 X 300 mm and embodying the pipe complete with alternate layers of salt and coke /charcoal/bentonite powder testing earth resistance as required etc., complete	1 No	As per DATA
449	MAT-04137	ELEC-6.7.3	Providing earthing as per IS 3043 with GI earth plate of size 600 x600 x 6 mm by embodying 3 to 4 mtr below the ground level with 40 mm dia GI B class perforated pipe including all including all accessories like nuts bolts reducer,nipple, wire meshed funnel andCCfinished chamber covered with hinged type with CI cover ,CI frame of size 300 X 300 mm and embodying the pipe complete with alternate layers of salt and coke /charcoal/bentonite powder testing earth resistance as required etc., complete	1 No	As per DATA

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
450	MAT-04138	ELEC-6.7.4	Providing earthing as per IS 3043 with copper earth plate of size 600 x 600 x 3.15 mm by embodying 3 to 4 mtr below the ground level with 40mm dia 'B' Class G.I Pipe by excavating a pit to a depth of 3 to 4 Mtr in all soils for Sophisticated Electronic equipment as per National Electric Code and earth connection from electrode Copper strip of 25mm x 5mm x 200mm length to be bolted with nut bolts to G.I.pipe including 25mm x 3mm copper strip of 6Mtrs length connected from plate to Copper strip including filling with 20Kg Salt and 40Kg Charcoal or 40Kg bentonite powderincluding all accessories like nuts bolts reducer,nipple, wire meshed funnel andCCfinished chamber covered with hinged type with CI cover ,CI frame of size 300 X 300 mm ,testing earth resistance as required etc., complete	1 No	As per DATA
451	MAT-04139	ELEC-6.7.5	Providing independent earthing for Important equipment with 100mm dia Heavy gauge C.I (Cast iron) pipe with Flange 2.5m long enclosed in C.C/ brick massonry chamber of 450m x 450m x 400mm with R.C.C. Slab cover duly providing staggered holes filling with salt and charcoal from the bottom of the pipe giving earth connection from electrode through G.I strip of 40 x 6mm x 200mm length with all accessories and labour charges complete, as per IS specifications 732/1982 (Part II)	1 No	9075
			EARTH CONDUCTORS		
452		ELEC-6.7.6	Supply and laying of following sizes Earth wire/Strip in horizontal /Vertical run in Ground/surface/Recess including, revitting,soldering,saddles,making connection etc as required		
	MAT-04140	a	6 SWG Copper wire(0.16 Kgs/1 Mtr)	1 Mtr	119
	MAT-04141	b	8 SWG Copper wire(0.1155Kgs/1Mtr)	1 Mtr	86
	MAT-04142	c	10 SWG Copper wire(0.075Kgs/1Mtr)	1 Mtr	56
	MAT-04143	d	6 SWG GI wire(0.192 Kgs/Mtr)	1 Mtr	15
	MAT-04144	e	8 SWG GI wire(0.104Kgs/1Mtr)	1 Mtr	9

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-04145	f	10 SWG GI wire(0.067Kgs/1Mtr)	1 Mtr	4
	MAT-04146	g	20mm x 3mm Copper Flat(0.529Kgs/1Mtr)	1 Mtr	395
	MAT-04147	h	25mm x 3mm Copper Flat (0.663Kgs/1Mtr)	1 Mtr	494
	MAT-04148	i	32 mm x 6mm Copper Flat(1.9 Kgs/Mtr)	1 Mtr	1417
	MAT-04149	j	50 mm x 6mm Copper Flat (2.680Kgs/1Mtr)	1 Mtr	1999
	MAT-04150	k	25mm x 3mm GI Flat(0.656 Kgs/Mtr)	1 Mtr	51
	MAT-04151	l	25mm x 6mm GI Flat (1.18Kgs/1Mtr)	1 Mtr	91
	MAT-04152	m	32 mm x 6mm GI Flat(1.6 kgs/Mtr)	1 Mtr	128
	MAT-04153	n	50 mm x 6mm GI Flat(2.5 Kgs ?mtr)	1 Mtr	194
			SECTION 7		
		7.0	LOCAL AREA NETWORK		
453		ELEC-7.1.1	Supply,laying ,testing and commisioning of 4-pair, Cat6 Solid (Third party ETL Intertek tested 600 MHZ above) to support 1Gbps with Cross (+) filler pair seperator & PVC sheath 23 AWG, STP/UTP Cable , Meets or exceeds ANSI/TIA-568-C.2 and UL Listed &RoHS Compliant in the existing raceways /pvc conduits including making connections to information outlets and patch panels with ferruling at both ends for identifiation with necessary tools for punching stripping crimping and testing required etc., complete. Makes : As per list of recommended brands.		
	MAT-04154	a	6 UTP cable	RM	39
	MAT-05553	b	6 STP cable	RM	53

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1		2	3	4	5
454	MAT-04155	ELEC-7.1.2	Supply installation testing and commissioning of 2nos of Cat6 Toolless builtin crimping mechanism Information Outlet with Dust Cover Exceed ANSI/TIA-568-C.2 and ISO/IEC 11801 standards with 2module face plate for Category 6 component performance & Compatible to T568A,T568B wiring pattern and UL-940V0 Rated Plastic &RoHS Compliant Makes : As per list of recommended brands.	each	909
455	MAT-04156	ELEC-7.1.3	Supply installation testing and commissioning of 1no of Cat6 Toolless builtin crimping mechanism Information Outlet with Dust Cover Exceed ANSI/TIA-568-C.2 and ISO/IEC 11801 standards with 1module face plate for Category 6 component performance & Compatible to T568A,T568B wiring pattern and UL-940V0 Rated Plastic &RoHS Compliant Makes : As per list of recommended brands.	each	473
456		ELEC-7.1.4	Supply installation testing and commissioning of 4 pair 23AWG Cat6 UTP ,flexible ,double ended patch cords along with 2 nos of RJ 45 connectors with strain relief boots Compatible to T568A,T568B specifications including making connections to information outlets Makes : As per list of recommended brands.		
	MAT-04157	a	1mtr/3 ft	each	225
	MAT-04158	b	2mtr/7 ft	each	267
	MAT-04159	c	3 mtr/10 ft	each	303
457	MAT-04160	ELEC-7.1.5	Supply installation testing and commissioning of Single Mode LC Pigtails LSZH 1mtr for fibre core connectivity Makes : As per list of recommended brands.	each	327
458	MAT-04161	ELEC-7.1.6	Supply installation testing and commissioning of Single Mode SC Pigtails LSZH 1mtr for fibre core connectivity. Makes : As per list of recommended brands.	each	449
459	MAT-04162	ELEC-7.1.7	Supply installation testing and commissioning of Single Mode LC Pigtails LSZH 2mtr for fibre core connectivity.	each	339

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands.		
460	MAT-04163	ELEC-7.1.8	Supply installation testing and commissioning of Single Mode SC Pigtails LSZH 2mtr for fibre core connectivity. Makes : As per list of recommended brands.	each	473
461		ELEC-7.1.9	Supply installation testing and commissioning of Indoor multimode[62.5/125um] glass Fiber Optic Cable as per latest amendments of TIA /EIA 568B.3 , GR 409 CORE / UL listed NEC 770 Standards in existing Raceways/PVC Conduits/ slotted channels including making Terminations to active passive equipments with ferruling at both ends for identification with necessary tools for Terminations and testing required. Makes : As per list of recommended brands.		
	MAT-04164	a	4 fiber		77
	MAT-04165	b	6 fiber		84
	MAT-04166	c	12 fiber		116
462		ELEC-7.1.10	Supply installation testing and commissioning Outdoor , steel tape armoured multimode[62.5/125um] glass Fiber Optic Cable as per latest amendments of TIA /EIA 568B.3 , GR 20 CORE/ UEC 794-1/ EN 187000 Standards in existing MSPVC Conduits/ hume pipe including making terminations to active passive equipments with ferruling at both ends for identification with necessary tools for Terminations and testing required. Makes : As per list of recommended brands.		
	MAT-04167	a	4 fiber		79
	MAT-04168	b	6 fiber		87
	MAT-04169	c	12 fiber		119

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
463	MAT-04170	ELEC-7.1.11	Supply ,Installation and Testing and commissioning of indoor 1 pair multimode [62.5/125um] glass Fiber Optic Patch Cords of One mtr length as per latest ammendments of TIA /EIA 568B.3 and IEC 794 Standard Specifications including ST II / SC/FC/MT/PC connectors at both ends as per requirements. Makes : As per list of recommended brands.	mtr	1114
464		ELEC-7.1.12	Supply ,Installation Testing and commisioning of 19 " Rack mounted/surface mounted aluminium / CRS powder coated multimode glass Fiber Optic Cable Patch panel/ LIU(upgradable to intelligent panels with use of sensor strips) along with cable tray/ fiber management system , adapters for ST II/ SC/FC/MT/PC connections including making connections to active / passive equipments with ferruling at both ends for identification with necessary tools for Terminations and testing required. Makes : As per list of recommended brands.		
	MAT-04171	a	8 Ports	1 No	6667
	MAT-04172	b	12 Ports	1 No	8728
	MAT-04173	c	24 Ports	1 No	16517
	MAT-04174	d	36 Ports	1 No	18668
465		ELEC-7.1.13	Supply , Installation, Testing and Comissioning of Rack mounted 19", Cat 6 UTP,1.5-1.6 MM CRS chasis , powder coated Modular Patch Panels (upgradable to intelligent panels with use of sensor strips) with collapsible shutters on jacks to support latest ammendments of TIA / EIA Cat 6 Specifications in Existing Communication Rack along with necessary connections of Cat 6 UTP Cables, With Rear Cable management trays and clamps. Makes : As per list of recommended brands.		
	MAT-04175	a	6 Ports	1 No	3515
	MAT-04176	b	12 Ports	1 No	4364
	MAT-04177	c	18 Ports	1 No	5455

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-04178	d	24 Ports	1 No	6667
466		ELEC-7.1.14	Supply , Installation, Testing and Comissioning of Wall mounted Communication rack in two sections viz rear wall mount Section and hinged front section with glass doors, swing handles ,lock , Top and Bottom Cable entries,Supports for mounting rack on wall , Cable managers, Fan tray with 2 x 230 Volt fans, Equipment mounting hardware, wire managers , power supply box for supplying power to hubs, fans etc along with earth continuity kit, Mcb, indicator, moulded power supply cable, Blank panels , sliding shelves etc. Makes : As per list of recommended brands.		
	MAT-04179	a	6 U(44 mm) wall mounted	1 No	5673
	MAT-04180	b	9 U(44 mm) wall mounted	1 No	6667
	MAT-04181	c	12 U(44 mm) wall mounted	1 No	7831
	MAT-04182	d	15 U(44 mm) wall mounted	1 No	8873
467		ELEC-7.1.15	Supply , Installation, Testing and Comissioning of Floor mounted Communication rack in two sections viz rear Steel Door and hinged front section with glass doors, swing handles ,lock on both doors, Top and Bottom Cable entries with gland plates ,Castor with brakes , 7 no Cable managers, 1 no Fan tray with 2 x 230 Volt fans, Equipment mounting hardware, wire managers , power supply box for supplying power to hubs, fans etc along with earth continuity kit, Mcb, indicator, moulded power supply cable, Blank panels of 1u / 2 u , sliding shelves .Frame of communication rack should be made of heavy grade Aluminum profile PS grey painted and panels should be made from CRCA steel 18 swg RS Beige painted . Makes : As per list of recommended brands.		
	MAT-04183	a	22 U (44 mm) Floor Standing Rack	1 No	24850
	MAT-04184	b	27 U (44 mm)Floor Standing Rack	1 No	27881

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-04185	c	37 U (44 mm)Floor Standing Rack	1 No	38790
	MAT-04186	d	42 U (44 mm)Floor Standing Rack 800WX1000D	1 No	50670
			MANAGEBLE NET WORK SWITCHES		
468	MAT-04187	ELEC-7.1.16	Supply ,Installation ,Testing and Commissioning of Small Business 24 port Gigabit Managed Switch. Makes : As per list of recommended brands.	1 No	48750
469	MAT-04188	ELEC-7.1.17	Supply ,Installation ,Testing and Commissioning of Small Business 48 port Gigabit Managed Switch. Makes : As per list of recommended brands.,	1 No	68200
470	MAT-04189	ELEC-7.1.18	Supply & Fixing of Cisco small business 8 port Gigabit POE Managed Switch. Makes : As per list of recommended brands.	1 No	30600
471	MAT-04190	ELEC-7.1.19	Supply & Fixing of Cisco small business 24 port Gigabit POE Managed Switch . Makes : As per list of recommended brands.	1 No	56100
472	MAT-04191	ELEC-7.1.20	Supply ,Installation ,Testing and Commissioning of Small Business 24 port Gigabit Managed Switch Makes : As per list of recommended brands.	1 No	deleted
473	MAT-04192	ELEC-7.1.21	Supply , Installation, Testing and Comissioning of Layer2 , Catalyst 2960 Plus 24 port , 10/100+2T/SFP LAN base Manageble Net work switch. Makes : As per list of recommended brands.	1 No	74360
474	MAT-04193	ELEC-7.1.22	Supply , Installation, Testing and Comissioning of Layer2 , Catalyst 2960 Plus 48 port , 10/100+2T/SFP LAN base Manageble Net work switch. Makes : As per list of recommended brands.	1 No	145860
475	MAT-04194	ELEC-7.1.23	Supply , Installation, Testing and Comissioning of Layer2 , Catalyst 2960 Plus 24 port, POE 10/100+2T/SFP LAN base Manageble Net work switch. Makes : As per list of recommended brands.	1 No	145860

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
476	MAT-04195	ELEC-7.1.24	Supply , Installation, Testing and Commissioning of Layer2 , Catalyst 2960 Plus 48 port, POE 10/100+2T/SFP LAN base Manageble Net work switch. Makes : As per list of recommended brands.	1 No	257400
477	MAT-04196	ELEC-7.1.25	Supply , Installation, Testing and Commissioning of Layer2 , Catalyst 2960 Plus 24 port, GigE LAN base Manageble Net work switch. Makes : As per list of recommended brands.	1 No	218075
478	MAT-04197	ELEC-7.1.26	Supply , Installation, Testing and Commissioning of Layer2 , Catalyst 2960 Plus 48 port, GigE LAN base Manageble Net work switch. Makes : As per list of recommended brands.	1 No	380380
479	MAT-04198	ELEC-7.1.27	Supply & Fixing of WiFiAccess point with mounting accessories etc.,complete . Makes : As per list of recommended brands.	1 No	32175
480		ELEC-7.1.28	Supply ,Installation ,Testing and Commissioning of Small Business Gigabit Managed Switch. Makes : As per list of recommended brands.		
			8 port	1 No	9600
			24 port	1 No	26000
481		ELEC-7.1.29	Supply & Fixing of Cisco small business Gigabit POE Managed Switch. Makes : As per list of recommended brands.		
			8 port	1 No	13000
			24 port	1 No	27000
482		ELEC-7.1.30	Supply and fixing of 8 PoE 10/100/1000 ports + 4 Gigabit SFP ports Web Smart Switch. Makes : As per list of recommended brands.	1 No	22800

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
483		ELEC-7.1.31	Supply and fixing of 24 PoE 10/100/1000 ports + 4 Gigabit SFP ports Web Smart Switch. Makes : As per list of recommended brands	1 No	34500
484		ELEC-7.1.32	Supply , testing commissioning of fibre optic cable single mode with all required acceseries including all charges complete etc as directed by Engineer In Charge/ departmental authorities. Makes : As per list of recommended brands.	1 RM	70
484		ELEC-7.1.33	Supply Installation Testing and commissioning of High Speed HDMI male to male cable of length. Makes : As per list of recommended brands	Each	4500
			5 Mtr	Each	3250
			10 Mtr	Each	6500
			25 Mtr	Each	16250
485		ELEC-7.1.34	Supply, installation, testing and commissioning of Wi-fi router. Makes : As per list of recommended brands.	Nos	4180
486		ELEC-7.1.35	Supply and laying of 2 mtr. HDMI- HDMI Patch Cords. Makes : As per list of recommended brands.	Nos	3800
487		ELEC-7.1.36	Supply and laying of USB Cable Makes : As per list of recommended brands.		
			2 Mtr	Nos	570
			10 Mtr	Nos	1520
488		ELEC-7.1.37	Supply and laying of 2 mtr. VGA-VGA Patch Cords. Makes : As per list of recommended brands.	Nos	4180
		7.2	RACEWAYS AND JUNCTION BOXES		
489		ELEC-7.2.1	Supply of .....G I Raceways of 2mm thick with top cover and required hard ware etc complete.		
	MAT-04199	a	100mm x 38mm	1 Mtr	549
	MAT-04200	b	150mm x 38mm	1 Mtr	722
	MAT-04201	c	300mm x 38mm	1 Mtr	1225

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-04202	d	100mm x 25mm	1 Mtr	510
	MAT-04203	e	150mm x 25mm	1 Mtr	667
	MAT-04204	f	300mm x 25mm	1 Mtr	1201
490		ELEC-7.2.2	Supply of .....G.I. Junction box of 2mm thick for direct acces to cables at the inter section of Raceways.		
	MAT-04205	a	172mm x 52mm	1 No	407
	MAT-04206	b	222mm x 52mm	1 No	516
	MAT-04207	c	372mm x 52mm	1 No	959
		7.3	COMPUTERS,PRINTERS AND SCANNERS		
491	MAT-04208	ELEC-7.3.1	<p>Supply, Transportation and installation of Desktop with fully loaded software as desired, with the following configuration.</p> <ol style="list-style-type: none"> 1. Processor: Intel® Core™ i7-10th Generation or Higher version Processor with Intel® HD Graphics 630 (2.9 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 12/16 MB cache, 8 cores) Intel Chipset 2. Memory: 8 GB DDR4-2400 SDRAM (1 x 8 GB) 3. Hard drive 1 TB 7200 rpm SATA 4. HP Monitor : 18.5"/19.5" with TCO 7.0 or its equivalent in HP/Dell/Lenova 5. DVD: RW 9.5MM Optical Disk Drive, 1 audio line in; 1 audio line out; 1 HDMI; 1 RJ-45; 1 VGA; 4 USB 3.0; 4 USB 2.0 6. Operating Systems: Preloaded Windows 10 professional 64 bit with product key License. 7. Preloaded with latest version of Antivirus Symantec/ McAfee / NOD32 / eTrust / Avast Internet Security / Kaspersky / Quickheal / eScan / Msecure with following features: Antivirus, Antispyware, Intrusion Prevention Browser protection with single management console with 3 year subscription with support updates and patches. 8. Accessories: With required connecting cables and 	1 No	75884

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			driver media should be supplied. 9. Warranty: 3 Year Standard On-Site Comprehensive Hardware Warranty (including O.S support, Spares- Parts/Service/Labour/On-site) Makes : As per list of recommended brands.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
492	MAT-04209	ELEC-7.3.2	<p>Supply, Transportation and installation of Desktop with fully loaded software as desired, with the following configuration.</p> <ol style="list-style-type: none"> 1. Processor: Intel® Core™ i5-10th Generation or Higher version processor with Intel® HD Graphics 630 (2.9 GHz base frequency with Intel® Turbo Boost Technology, 8/12 MB cache) Intel Chipset 2. Memory: 8 GB DDR4-2400 SDRAM (1 x 8 GB) 3. Hard drive 1 TB 7200 rpm SATA 4. HP Monitor : 18.5"/19.5" with TCO 7.0 or its equivalent in Dell/Lenova 5. DVD:RW 9.5MM Optical Disk Drive, 1 audio line in; 1 audio line out; 1 HDMI; 1 RJ-45; 1 VGA; 4 USB 3.0; 4 USB 2.0 6. Operating Systems: Preloaded Windows 10 professional 64 bit with product key License. However, the product key should be mentioned in the installation report at the time of installation. 7. Preloaded with latest version of Antivirus Symantec/ McAfee / NOD32 / eTrust / Avast Internet Security / Kaspersky / Quickheal / eScan / Msecure with following features: Antivirus, Antispyware, Intrusion Prevention Browser protection with single management console with 3 year subscription with support updates and patches. 8. Accessories: With required connecting cables and driver media should be supplied. 9. Warranty: 3 Year Standard On-Site Comprehensive Hardware Warranty (including O.S support, Spares- Parts/Service/Labour/On-site) Makes : As per list of recommended brands. 	1 No	68549
493	MAT-04210	ELEC-7.3.3	<p>Supply, Transportation and installation of Printer</p> <p>Features:</p> <p>Print technology Laser</p> <p>Duty cycle (monthly, letter) Up to 5000 pages</p> <p>Recommended monthly page volume 250 to 2000</p> <p>Duty cycle (monthly, A4) Up to 5000 pages print</p> <p>Print speed black (normal, letter) Up to 15 ppm</p> <p>Print speed black (normal, A4) Up to 14 ppm</p> <p>Duplex printing Manual (driver support provided)</p> <p>PROCESSOR Processor speed 234 MHz</p> <p>PAPER HANDLING Envelope feeder No</p> <p>Paper trays, maximum 1 (plus single-sheet priority input slot)</p>	1 No	13165

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands.		
494	MAT-04211	ELEC-7.3.4	Supply, Transportation and installation of All-in-One (Print, Copy, Scan) with duplex, auto document feeder features: -Print Resolution 600 x 600dpi -Print Speed (A4) 27ppm -Auto Duplex Printing Standard -Available Paper Size for Auto Duplex Print A4, Letter, Legal (*1), Indian Legal, Fullscape -COPY Copy Speed (A4) 27ppm Maximum Number of Copies Up to 999 copies Scan Type Colour Contact Image Sensor Scan Resolution Optical Up to 600 x 600dpi Pull Scan Yes, USB and Network Makes : As per list of recommended brands.	1 No	24805
495	MAT-04212	ELEC-7.3.5	Supply, Transportation and installation of Document Scanner Features: upto 30ppm/60ipm at 300dpi paper size A8 to A4/Legal 256MB memory upto 1200X1200 dpi resolution 50pages ADF input capacity upto 3000 pgs daily duty cycle USB 2.0 Host & Gigabit Lan Port Makes : As per list of recommended brands.	1 No	42338
496	MAT-04213	ELEC-7.3.6	Supply of 5 Pair telephone copper wire. Makes : As per list of recommended brands.	100 Mtrs	3025

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
497	MAT-04214	ELEC-7.3.7	Supply of 100 pair MDF loaded with 2/10 Modular. Makes : As per list of recommended brands.	1 No	4029
498	MAT-04215	ELEC-7.3.8	Supply of 100 Pair raiser cable for telephone . Makes : As per list of recommended brands.	1 Mtr	424
499	MAT-04216	ELEC-7.3.9	Supply of 10 Pair telephone Copper wire. Makes : As per list of recommended brands.	1 Mtr	43
500	MAT-04217	ELEC-7.3.10	Supply of 20 Pair telephone Copper wire. Makes : As per list of recommended brands.	1 Mtr	85
501	MAT-04218	ELEC-7.3.11	Supply of 50 Pair telephone Copper wire. Makes : As per list of recommended brands.	1 Mtr	212
502	MAT-04219	ELEC-7.3.12	Supply of 10 pair Telephone distribution box with back mount frame, krone connector, powder coated metal body with lock and key arrangement.	1 No	714
503	MAT-04220	ELEC-7.3.13	Supply of 20 pair Telephone distribution box with back mount frame, krone connector, powder coated metal body with lock and key arrangement.	1 No	1089
504	MAT-04221	ELEC-7.3.14	Supply of 50 pair Telephone distribution box with back mount frame, krone connector, powder coated metal body with lock and key arrangement.	1 No	2269
505	MAT-04222	ELEC-7.3.15	Supply of 200 pair Telephone distribution box with back mount frame, krone connector, powder coated metal body with lock and key arrangement.	1 No	8664
506		ELEC-7.3.16	Supply, Installation, Testing and commissioning of Non caller ID push button Telephone instruments etc., complete with connectors. Makes : As per list of recommended brands	Each	495
			EPABX SYSTEM		
		7.4	SMALL SYSTEM		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
507	MAT-05554	ELEC-7.4.1	Supply, Installation, testing and Commissioning of IP Based digital Telephone (EPABX) system ----- complied with following specifications: > IP @ Core, PCM/TDM, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and Ios) > Must support Voice Mail > Must support Card based GSM > Inbuilt 8 Channel Auto Attendant > Inbuilt Call Details Software with search engine software > 4 Analog Trunks > 6 Digital Extensions > 32 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires) > Expandable to 64 Analog Extensions or more / Makes : As per list of recommended brands.	1 No	104665
508	MAT-05555	ELEC-7.4.2	Supply, Installation, testing and Commissioning of IP Based digital Telephone (EPABX) system ----- complied with following specifications: > IP @ Core, PCM/TDM, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and Ios) > Must support Voice Mail > Must support Card based GSM > Inbuilt 8 Channel Auto Attendant > Inbuilt Call Details Software with search engine software > 4 Analog Trunks > 6 Digital Extensions > 48 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires) > Expandable to 64 Analog Extensions or more Makes : As per list of recommended brands.	1 No	114950

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
509	MAT-05556	ELEC-7.4.3	Supply, Installation, testing and Commissioning of IP Based digital Telephone (EPABX) system ----- complied with following specifications: > IP @ Core, PCM/TDM, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and Ios) > Must support Voice Mail > Must support Card based GSM > Inbuilt 8 Channel Auto Attendant > Inbuilt Call Details Software with search engine software > 4 Analog Trunks > 1 ISDN PRI Module > 6 Digital Extensions > 48 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires) > Expandable to 64 Analog Extensions or more Makes : As per list of recommended brands.	1 No	128018
510	MAT-05557	ELEC-7.4.4	Supply, Installation, testing and Commissioning of IP Based digital Telephone (EPABX) system ----- complied with following specifications: > IP @ Core, PCM/TDM, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and Ios) > Must support Voice Mail > Must support Card based GSM > Inbuilt 8 Channel Auto Attendant > Inbuilt Call Details Software with search engine software > 4 Analog Trunks > 6 Digital Extensions > 64 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires) > Expandable to 64 Analog Extensions or more Makes : As per list of recommended brands.	1 No	131890

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
511	MAT-05558	ELEC-7.4.5	Supply, Installation, testing and Commissioning of IP Based digital Telephone (EPABX) system ----- complied with following specifications: > IP @ Core, PCM/TDM, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and Ios) > Must support Voice Mail > Must support Card based GSM > Inbuilt 8 Channel Auto Attendant > Inbuilt Call Details Software with search engine software > 4 Analog Trunks > 1 ISDN PRI Module > 6 Digital Extensions > 64 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires) > Expandable to 64 Analog Extensions or more Makes : As per list of recommended brands.	1 No	143990
512	MAT-05559	ELEC-7.4.6	Supply and installation of Analog Extension Card (with Caller ID) 8 extensions.	1 No	17545
513	MAT-05560	ELEC-7.4.7	Supply and installation of Analog Extension Card (with Caller ID) 16 extensions.	1 No	22990
514	MAT-05561	ELEC-7.4.8	Supply and installation of Analog Trunk Card (with Caller ID) 4 trunks.	1 No	19481
515	MAT-05562	ELEC-7.4.9	Supply and installation of Analog Trunk Card (with Caller ID) 8 trunks.	1 No	24200
516	MAT-05563	ELEC-7.4.10	Supply and installation of Digital Extension Card for 8 digital extensions:	1 No	22627
517	MAT-05564	ELEC-7.4.11	Supply and installation of Digital Extension Card for 16 digital extensions:	1 No	38115
518	MAT-05565	ELEC-7.4.12	Supply and installation of E1 Trunk Card or PRI Card 30 ISDN PRI or R2 trunk channels.	1 No	57173
		7.5	LARGE SYSTEM	1 No	

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
519	MAT-05566	ELEC-7.5.1	Supply, Installation, Testing and Commissioning of IP Based digital Telephone (EPABX) system-- complied with following specifications: > IP @ Core, PCM/TDM switching, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and IOs) > Must support Voice Mail > Must support Card based GSM > Inbuilt Call Details Software with search engine software > 8 Analog Trunks > 8 Digital Extensions > 96 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires) > Expandable to 220 Ports wired or more at extra cost Makes : As per list of recommended brands.	1 No	288706
520	MAT-05567	ELEC-7.5.2	Supply, Installation, Testing and Commissioning of IP Based digital Telephone (EPABX) system-- complied with following specifications: > IP @ Core, PCM/TDM switching, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and IOs) > Must support Voice Mail > Must support Card based GSM > Inbuilt Call Details Software with search engine software > 8 Analog Trunks > 1 PRI Trunk module > 8 Digital Extensions > 128 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires) > Expandable to 220 Ports wired or more at extra cost Makes : As per list of recommended brands.	1 No	436810

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
521	MAT-05568	ELEC-7.5.3	<p>Supply, Installation, Testing and Commissioning of IP Based digital Telephone (EPABX) system-- complied with following specifications:</p> <ul style="list-style-type: none"> > IP @ Core, PCM/TDM switching, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and IOs) > Must support Voice Mail > Must support Card based GSM > Inbuilt Call Details Software with search engine software > 8 Analog Trunks > 1 PRI Trunk module > 8 Digital Extensions > 160 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires) > Inbuilt hotstandby for CPU and PSU. > Compatibility to run on DC -48v source. > Expandable to 220 Ports wired or more at extra cost <p>Makes : As per list of recommended brands.</p>	1 No	526350
522	MAT-05569	ELEC-7.5.4	<p>Supply, Installation, Testing and Commissioning of IP Based digital Telephone (EPABX) system-- complied with following specifications:</p> <ul style="list-style-type: none"> > IP @ Core, PCM/TDM switching, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and IOs) > Must support Voice Mail > Must support Card based GSM > Inbuilt Call Details Software with search engine software > 8 Analog Trunks > 1 PRI Trunk module > 16 Digital Extensions > 224 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires) > Inbuilt hotstandby for CPU and PSU. > Compatibility to run on DC -48v source. > Expandable to 400 Ports wired or more at extra cost 	1 No	733260

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands.		
523	MAT-05570	ELEC-7.5.5	Supply, Installation, Testing and Commissioning of IP Based digital Telephone (EPABX) system-- complied with following specifications: > IP @ Core, PCM/TDM switching, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and IOs) > Must support Voice Mail > Must support Card based GSM > Inbuilt Call Details Software with search engine software > 8 Analog Trunks > 1 PRI Trunk module > 16 Digital Extensions > 304 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires) > Inbuilt hotstandby for CPU and PSU. > Compatibility to run on DC -48v source. > Expandable to 400 Ports wired or more at extra cost Makes : As per list of recommended brands.	1 No	849420
524	MAT-05571	ELEC-7.5.6	Supply and Installation of Analog Extension Card (with Caller ID) 16 extensions.	1 No	24079
525	MAT-05572	ELEC-7.5.7	Supply and Installation of Analog Trunk Card (with Caller ID) 8 trunks.	1 No	24079
526	MAT-05573	ELEC-7.5.8	Supply and Installation of Digital Extension Card for 8 digital extensions:	1 No	24079
527	MAT-05574	ELEC-7.5.9	Supply and Installation of Digital Extension Card for 16 digital extensions:	1 No	39567
528	MAT-05575	ELEC-7.5.10	Supply and Installation of E1 Trunk Card or PRI Card 30 ISDN PRI or R2 trunk channels.	1 No	59411
529	MAT-05576	ELEC-7.5.11	Supply and Installation of IP CPU card for redundancy purpose	1 No	43318
530	MAT-05577	ELEC-7.5.12	Supply and Installation of PSU card for redundancy purpose	1 No	26378

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
531	MAT-05578	ELEC-7.5.13	Supply and Installation of Digital Key Telephone with 2 line display, 10 programmable keys, handsfree dialing.	1 No	10164
532	MAT-05579	ELEC-7.5.14	Supply and Installation of Digital Key Telephone with 2 line display, 16 programmable keys, fully handsfree talk back.	1 No	17787
533	MAT-05580	ELEC-7.5.15	Supply and Installation of IP Gateway card for 8 channels	1 No	50215
534	MAT-05581	ELEC-7.5.16	Supply and Installation of IP Gateway card for 16 channels	1 No	72600
535	MAT-05582	ELEC-7.5.17	Supply and Installation of SIP extensions licenses pack (5 SIP extensions)	1 No	5143
536	MAT-05583	ELEC-7.5.18	Supply and Installation of SIP extensions licenses pack (10 SIP extensions)	1 No	9015
537	MAT-05584	ELEC-7.5.19	Supply and Installation of IP phone with POE.	1 No	20328
538	MAT-05585	ELEC-7.5.20	Supply and Installation of 4 port GSM card	1 No	52998
539	MAT-05586	ELEC-7.5.21	Supply and Installation of Expansion cabinet for 220 more extensions	1 No	100430
540	MAT-05587	ELEC-7.5.22	Supply and Installation of 100 Pair MDF along with IPM	1 No	16214
			C.C.TV & SURVEILLANCE SYSTEM		
541		ELEC-7.6.1	Supply, installation, Testing and Commissioning of 32 channel NVR (Network Video Recorder) Max. 12MP Camera supported, 256Mbps network camera recording, Support 4K video out on HDMI monitor, Support Dual monitor video out, Support H.265, H.264, MJPEG compression, Wise Stream support, Max. 8 internal HDDs (48TB), e-SATA / iSCSI storage support, Support RAID 5 Easy installation with front swap hard disks ARB & Failover (N+1) support, UL Certified NVR. Makes : As per list of recommended brands.	Each	142500
542		ELEC-7.6.2	Supply, installation, Testing and Commissioning of 16 channels NVR with 1080P recording resolution, adaptive recording, camera wise recording retention, CMC, Web client, mobile application (IOS &	Each	23644

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Android), 2 SATA slot each 6TB, SMS & Email notification, ONVIF, HDMI, VGA, Output. Makes : As per list of recommended brands		
543		ELEC-7.6.3	Supply, installation, Testing and Commissioning of 8 channels NVR with 1080P recording resolution, adaptive recording, camera wise recording retention, CMC, Web client, mobile application (IOS & Android), 1 SATA slot each 6TB, SMS & Email notification, ONVIF, HDMI, VGA, Output. Makes : As per list of recommended brands.	Each	16500
544		ELEC-7.6.4	Supply, Installation, Testing & Commissioning of IP IR Dome Camera (2 MP Series), 2MP Network IR Dome Camera Max. 2megapixel (1920 x 1080) resolution, 0.095Lux (Color), 0Lux (B/W, IR LED on), 3.2 ~ 10mm (3.1x) varifocal lens, Max. 30fps@2M all resolutions (H.265/H.264) H.265, H.264, MJPEG codec supported, Multiple streaming, Motion detection, Tampering, Defocus detection, Hallway view (90°/270°), LDC support, Micro SD/SDHC/SDXC memory slot (Max. 128GB), IR viewable length 20m, PoE/12VDC UL Certified Dome Camera. Makes : As per list of recommended brands.	Each	17100
545		ELEC-7.6.5	Supply, Installation, Testing & Commissioning of IP IR Bullet Camera (2 MP Series), 2MP Network IR Bullet Camera 2megapixel (1920 x 1080) resolution, 0.1Lux (Color), 0Lux (B/W, IR LED on), 2.8mm fixed lens Max. 30fps@2M all resolutions (H.265/H.264) H.265, H.264, MJPEG codec supported, Multiple streaming, Motion detection, Tampering, Defocus detection, Hallway view (90°/270°), LDC support Micro SD/SDHC/SDXC memory slot (Max. 128GB) IR viewable length 20m/25m/ 30m, IP66, IK10, PoE, 12VDC UL Listed Bullet Camera. Makes : As per list of recommended brands.	Each	17100
546		ELEC-7.6.6	Supply, Installation, Testing & Commissioning of IP IR PTZ Camera- 12M 32x Network PTZ Dome Camera Max. 2megapixel (1920 x 1080) resolution, 4.44 ~ 142.6mm (Optical 32x) lens, Max. IR viewable length : 200m (656ft), Day & Night (ICR), WDR (150dB), DIS (Built-in gyro sensor), 1/2.8" Progressive Scan CMOS, Intelligent Video /	Each	98380

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Audio Analytics, Intrusion Detection and Motion Detection, Shock detection, Azimuth display (Cardinal & intermediate directions), Multiple streaming, WiseStream II support H.265, H.264, MJPEG codec support MicroSD / SDHC / SDXC memory 2 slots (Up to 512 GB) IP66, IK10 UL Certified PTZ Camera along with pole/wallmount L-bracket for Mounting, Power Adapter, IP66, TVS 4,000V Lightning Protection, Surge Protection and Voltage Transient Protection etc. as per detailed technical specifications and approved make including all charges complete etc as directed by Engineer Incharge/ departmental authorities. Make: Samsung Model: XNP6320H or its equivalent specification Makes : As per list of recommended brands.		
547		ELEC-7.6.7	Supply and fixing of Surveillance HDD-4 TB. Makes : As per list of recommended brands.	Each	17100
548		ELEC-7.6.8	Supply and installation of 4K UHD , 55" LED Display complete with following Specifications : a) Diagonal Size 55" b) Type Edge LED BLU. c) Resolution 3840*2160 (4K UHD) d) Pixel Pitch(mm) 0.105 x 0.315. e) Active Display Area(mm) 1209.6(H) x 680.4(V) f) Brightness(Typ.) 350 nit. g) Contrast Ratio 4000:1. Makes : As per list of recommended brands	Each	89000
549		ELEC-7.6.9	Supply and installation of 24 inch (60.96cm) Full HD LED Monitor with Wall Mountable Stand, Height Adjustable, HDMI and VGA Ports with all Accessories Makes : As per list of recommended brands	Each	16950
550		ELEC-7.6.10	Installation, testing , Commissioning & Integration of CCTV system in Control room including mobile configuration and communication of entire system as per the directions of Engineer-in-Charge.	Each Job	10000
			Note: The above charges for Installation, testing , Commissioning & Integration of CCTV system in Control room may be given on job work basis for every 10 cameras or part there of depending upon		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			size of the building/premises.		
			PUBLIC ADDRESS SYSTEMS		
551		ELEC-7.7.1	Supply and Installation of 120Watt Booster Amplifier, The amplifier is protected against overload and shortcircuits. A temperature-controlled fan ensures highreliability at high output levels and low acoustic noiseat lower output levels. An overheat protection circuitswitches off the power stage and activates an LED onthe front panel, if the internal temperature reaches acritical limit due to poor ventilation or overload. Makes : As per list of recommended brands	Each	19500
552		ELEC-7.7.2	Supply and installation testing and commissioning of Table top mounted gooseneck type Conference Delegate unit Loudspeaker volume is set centrally at the Control Unit for all delegate units. To prevent acoustic feedback, the built-in loudspeaker is automatically muted when the microphone is on, the headphone volume level can be adjusted by means of a thumbwheel on the unit for maximum comfort, Nominal Acoustic Input 85dB SPL, Frequency Response 400Hz to 10kHz, Length of the microphone fromthe base of the stem 488mm. Makes : As per list of recommended brands.	Each	14200
553		ELEC-7.7.3	Supply, Fixing and Installation of Table top/Podium mounted gooseneck type Conference Chairman unit Loudspeaker volume is set centrally at the Control Unit for all delegate units. To prevent acoustic feedback, the built-in loudspeaker is automaticallymuted when the microphone is on, The headphone volume level can be adjusted by meansof a thumbwheel on the unit for maximum comfort. Makes : As per list of recommended brands.	Each	16800
554		ELEC-7.7.4	Supply, Fixing and Installation of Rack mounted Conference Control unit, having digital acoustic feedback suppression facility that automatically eliminates acoustic feedback, giving better speech intelligibility by allowing the speaker volume to be turned up as loud as required without any risk of feedback. Makes : As per list of recommended brands.	Each	29050

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
555		ELEC-7.7.5	Supply and Installation of Wall mounted 30W Cabinet Loud speaker, High-fidelity music and speech reproduction, Selectable 8 ohm, 70 V and 100 V inputs, Compact yet robust ABS enclosure, Supplied with adjustable mounting bracket, Complies with international installation and safety regulations. Makes : As per list of recommended brands.	Each	5910
556		ELEC-7.7.6	Supply, Fixing and Installation of 4 Channel Mixer, High-fidelity music and speech reproduction, selectable 8 ohm, 70 V and 100 V inputs, Compact yet robust ABS enclosure, Supplied with adjustable mounting bracket, Complies with international installation and safety regulations. Makes : As per list of recommended brands.	Each	37200
557		ELEC-7.7.7	Supply and Installation of Wireless Handheld microphone, With the touch of a single button, ClearScan™ scans through all 32 preset channels and selects the clearest channel, which ensures noise-free operation over the longest operating range. In the increasingly cluttered world of RF, ClearScan™ gives you confidence that you can easily find an open frequency. Makes : As per list of recommended brands.	Each	29470
558		ELEC-7.7.8	Supply and Fixing of wireless hand held microphone Having Frequency Response of 40Hz-13kHz etc., complete. Makes : As per list of recommended brands.	Each	4650
559		ELEC-7.7.9	Supply and Installation of Wireless Collar Microphone with Frequency Response of 40Hz-13kHz etc., complete. Makes : As per list of recommended brands.	Each	4800
560		ELEC-7.7.10	Supply and Fixing of High fidelity 2-Way wall mountable Speakers with 16W impedance with power taps of 4W/8W/16W etc., complete. Makes : As per list of recommended brands.	Each	4635
561		ELEC-7.7.11	Supply, Installation, Testing and Commissioning of speakers with following specifications:12W Wall mount box Speaker, rated power: 12W, Tapings 100 volt line : 12/6/9WTransformer Impedence, Ohms , 100V : 1.67k/3.33k/6.66k, Frequency Response : 55-15,000 HzSPL at 1kHz (1W/1M) : min 85dB, Color /	Each	1740

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Finish : White RAL9016 / Black. Makes : As per list of recommended brands.		
562		ELEC-7.7.12	Supplying, installing, testing and commissioning of 25 zone selector P.A. console and with CRCA sheet housing and control desk aslo included with rack arrangement as required. Console shall have all call / call back type complete with battery back up and it should also work on AC single phase power. (considered each floor one Zone). Makes : As per list of recommended brands.	Each	27030
563		ELEC-7.7.13	Supply and Fixing of High fidelity 2-Way wall mountables with 10W impedance with power taps of 1.5W/3W/6W etc., complete. Makes : As per list of recommended brands.	Each	3980
564		ELEC-7.7.14	Supply and Fixing of Ceiling mount Speakers with 6W impedance with power taps of 1.5W/3W/6W etc., complete. Makes : As per list of recommended brands.	Each	3228
565		ELEC-7.7.15	Supply and Laying of Microphone Cables and connectors etc., complete. Makes : As per list of recommended brands.	1 RM	48
566		ELEC-7.7.16	Testing and commissioning of the above Public Address systems as required at site.	Each Job	2000
			Note: The above charges for Testing and commissioning of the above Public Address systems may be given on job work basis for each amplifier with mixer/each conference hall etc., depending upon size of the building/premises..		
			AUDIO-VIDEO SYSTEMS		
567		ELEC-7.8.1	Supply and Fixing of Projector for front end Audience, As 4200lm, 5000:1contast ratio, 1080p@50/60Hz and HDMI & VGA interface etc. complete. Makes : As per list of recommended brands.	Each	70060
568		ELEC-7.8.2	Supply, installation, testing & comissioning of 3LCD / 1DLP laser projector with 4200 ANSI Lumens brightness, Ultra short throw (0.3 : 1) lens, Resolution: WXGA (1280 x 800), Colors: 16.7 million colors, Contrast Ratio: 500,000 : 1, Speaker Output: 16W, Input Ports: 1 x HDMI, 1 x MHL, 2 x VGA, 1 x	Each	247000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			composite video, 1 x component video, 1 x 3.5 mm stereo mini jack, Output: 1 x 3.5 mm stereo mini jack, 1 x VGA, Wired and wireless network LAN, 1 x RS-232 control port. Makes : As per list of recommended brands.		
569		ELEC-7.8.3	Supply, installation, testing & commissioning of 3LCD/1DLP laser projector with 3500 ANSI Lumens brightness, Resolution: WXGA (1280 x 800), Colors: 16.7 million colors, Contrast Ratio: 2,000,000 : 1, Life: 40,000 hours, Speaker Output: 16W, Input Ports: 2 x HDMI, 2 x VGA, 1 x composite video, 1 x component video, 1 x RCA jack, Output: 1 x 3.5 mm stereo mini jack, 1 x VGA, Wired and wireless network LAN, 1 x RS-232 control port. Makes : As per list of recommended brands.	Each	129200
570		ELEC-7.8.4	Supply and Fixing of Ceiling Mount Kits for Projector etc. complete. Makes : As per list of recommended brands.	Each	10305
571		ELEC-7.8.5	Supply and Fixing of 120" Motorized projection screen with remote control etc. complete. Makes : As per list of recommended brands.	Each	20610
572		ELEC-7.8.6	Supply and Fixing of 55" Full HD LED Large format Display (LFD) Commercial model for 24x7 operations, As 1920 x 1080 (16:9) resolution & 170°/160°(H/V) viewing angle, with HDMI & VGA Interface etc., complete. Makes : As per list of recommended brands.	Each	80060
573		ELEC-7.8.7	Supply and Fixing of Ceiling Mount Kits for front LED etc. complete. Makes : As per list of recommended brands.	Each	11221
574		ELEC-7.8.8	Supply and Fixing of 4-input and 8-output HDMI (High-Definition Multimedia Interface) Matrix Switcher Board with EDID Minder (Interface switching unit for LFD & Projectors to provide Audio and Video) etc. complete. Makes : As per list of recommended brands.	Each	270300
575		ELEC-7.8.9	Supply and Fixing of Long Distance HDMI (High-Definition Multimedia Interface) twisted Pair Transmitter/Receiver for LED cable for long distance which contains OFC and converting accessories etc. complete.	Each Pair	49440

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands.		
576		ELEC-7.8.10	Supply and Fixing of VGA to HDMI Convertor etc. complete. Makes : As per list of recommended brands.	Each	16946
577		ELEC-7.8.11	Supply and Laying of twisted pair type High-Definition Multimedia Interface cable for long distance which contains OFC and converting accessories for multiple connectivity like connectors for Tx & Rx etc. complete. Makes : As per list of recommended brands.	Each	4809
578		ELEC-7.8.12	Supply and Fixing of Wireless remote control Laser point Presenter and Slider etc. complete. Makes : As per list of recommended brands.	Each	6320
579		ELEC-7.8.13	Supply, installation, testing & commissioning of 2.4 GHz Digital Wireless Handheld Microphone with 256 bit AES Encryption, Frequency Response: 70 Hz–20 KHz, Dynamic Range: 116 dB @ 1 KHz, Signal-to-noise: >90 dBA, Latency<=2.9ms alongwith Up to 12 Hours battery life. Makes : As per list of recommended brands.	Each	38000
580		ELEC-7.8.14	Supply, installation, testing & commissioning of 2.4 GHz Digital Wireless Lapel Microphone with 256 bit AES Encryption, Frequency Response: 20 Hz–20 KHz, Dynamic Range: 116 dB @ 1 KHz, Signal-to-noise: >90 dBA, Latency<=2.9ms alongwith Up to 12 Hours battery life. Makes : As per list of recommended brands.	Each	38000
581		ELEC-7.8.15	Supply, installation, testing & commissioning of Gooseneck Microphone with on/off button with Polar pattern: Cardioid, Frequency range: 70 to 18,000 Hz , Max. SPL 125 dB, Equivalent noise level: <21 dB-A , Signal/noise ratio: >73 dB, Impedance: <=600 ohms, load impedance >=2,000 ohms, Connector 3-pin male XLR. Makes : As per list of recommended brands.	Each	38000
582		ELEC-7.8.16	Supply, installation, testing & commissioning of Modular Digital Signal Processor with AEC and current configuration of minimum 6mic/line inputs and 4 line outputs, 2 x 2 USB in/out for PC audio, Dante connectivity and Processor: 40-bit floating	Nos	173793

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			point, Sampling rate: 48kHz, standard Dante digital audio networking. Makes : As per list of recommended brands.		
583		ELEC-7.8.17	Supply, installation, testing & commissioning of Column Line array Speaker with 8 nos. vertically aligned array of full range speakers with Frequency Range: 80 Hz – 20 kHz, Sensitivity: 93 dB, Power Capacity: 100 Watt (400 W Peak), Nominal Impedance: 8 ohms, Max SPL: 121 dB, Transformer Tap: 60W, 30W @ 100V, Fiberglass reinforced ABS cabinet, painted aluminum grille along with Swivel (pan)/tilt wall bracket. Makes : As per list of recommended brands.	Nos	44290
584		ELEC-7.8.18	Supply, installation, testing & commissioning of Class D Dual channel Power Amplifier with Power output: 2 x 240 Watt @ 100v, Frequency response : 50Hz-22kHz, Total harmonic distortion (THD) : < 0.3%, Signal to noise ratio : > 100 dB, Crosstalk (@ 1 kHz) < 80 dB along with Dc short circuit, over heating, over load, signal limiting, temperature control fan protection. Makes : As per list of recommended brands.	Nos	83030
585		ELEC-7.8.19	Supply, installation, testing & commissioning of 250 Watt Mixing Amplifier with frequency response 50Hz to 15kHz +/-3 dB, THD <10%, Inputs: 6 x Mic, 2 x Aux, 1 x Line inputs, Outputs: 1 x Preamp out & 1 x Line out, Signal to Noise ratio:70db, with Bass and treble control. Makes : As per list of recommended brands.	Nos	23750
586		ELEC-7.8.20	Supply, Installation, Testing and Commissioning of Two way ceiling speaker 4" LF Driver, 0.75" Tweeter, Power Handling Capacity : 60 Watt continuous program power, Sensitivity (SPL 1W/1m) : 87 dB, Peak SPL: 108 dB, Frequency Range: 75 Hz – 20 kHz, Coverage : 120° Conical, impedance: 8 ohms, UL / EN certified, along with integrated steel backcan complete as required. Makes : As per list of recommended brands.	Nos	9207
587		ELEC-7.8.21	Supply and Fixing of 1600 W, 132 dB peak SPL utilizing high-sensitivity transducers 15" Two-Way Passive Loudspeaker etc. complete.	Each	8879

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands.		
588		ELEC-7.8.22	Supply and Fixing of 1000 W,126 dB 12" Two-Way Powered Loudspeaker etc. complete. Makes : As per list of recommended brands.	Each	7948
589		ELEC-7.8.23	Supply and Fixing of Ultra compact two-way with single 8-inch woofer etc. complete. Makes : As per list of recommended brands.	Each	28033
590		ELEC-7.8.24	Supply and Fixing of 650 W per channel Class-H power amplifier With 2x 450W @ 4 Ohms etc. complete. Makes : As per list of recommended brands.	Each	4358
591		ELEC-7.8.25	Supply and Fixing of Pop up box etc. complete. Makes : As per list of recommended brands.	Each	3570
592		ELEC-7.8.26	Supply and Fixing of XLR connector etc. complete. Makes : As per list of recommended brands.	Each	675
593		ELEC-7.8.27	Supply, Installation, Testing and Commissioning of Multiformat 3 x 1 automatic transmitter and receiver with scaler solution, Should support HDCP 2.2 and auto scaling at output , 4K30 Support for source devices and displays, Inputs (TX) – Transmitter includes 2x HDMI and 1x VGA inputs, Outputs(RX) – Receiver includes 1x HDMI input and scaled HDMI output , control port: RS-232, 2 x Relay and de-embedded audio out. Makes : As per list of recommended brands.	Nos	64980
594		ELEC-7.8.28	Supply, Installation, Testing and Commissioning of 4x1 4K60 Presentation Switcher with Inputs: 1 x VGA with audio, 3 x HDMI, Outputs: 1 x HDBT and 1 x HDMI output, 1 x de-embedded audio out along with control port: 1 x RS-232, 1 x IR, 1 x contact-in, 1 x tally out and ethernet port. Makes : As per list of recommended brands.	Nos	77976
595		ELEC-7.8.29	Supply, Installation, Testing and Commissioning of Multi-Format Wallplate Transmitters, Inputs: 1x HDMI, 1 xVGA, 1 x audio, Output: Hdbaset/Dxlink RJ-45, Resolution: 480p up to 1920x1200 @ 60 Hz , HDCP Compliant, 3D Support, Analog to Digital Conversion: 48 kHz Sample Rate, 24-bit. Makes : As per list of recommended brands.	Nos	71535
596		ELEC-	Supply, Installation, Testing and Commissioning of	Nos	81863

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
		7.8.30	Receiver compatible to the above transmitter, input: HdbaseT/Dxlink RJ-45, output: HDMI, Analog Stereo Output : 3.5mm Mini-Stereo Jack, HDCP Compliant, Control: Rs232, IR. Makes : As per list of recommended brands.		
597		ELEC-7.8.31	Supply, installation, testing and commissioning of Wireless Presentation System with 4K resolution, enables iOS, Android, Chromebook, PC, and Mac device users to instantly connect to a main display without a dongle, 2.4GHz/5GHz Wi-Fi and MIMO antennas, Two participants can simultaneously present content on main display along with in-built processor of Intel, Main Memory: 4GB, Storage: 32 GB, Networking: 802.11 ac/b/g/n dual band Wireless LAN and Bluetooth 4.1, Operating System: Linux. Makes : As per list of recommended brands.	Nos	66500
598		ELEC-7.8.32	Supply, installation, testing and commissioning of 8 Button control Pad with 2 x RS-232, 2x IR/Serial, 2 x I/O channel, 1 x Relay, 1 x USB Mini-B, USB, with Flash: 4 GB, Memory Card: 4 GB SD, DDRAM: 256 MB along with Display Monitoring. Makes : As per list of recommended brands.	Nos	55423
599		ELEC-7.8.33	Supply, Installation, testing and commissioning of Mobile Signal Jammer for 8 Band with all standard accessories. Model:GST-JAMM-009HI (High Cooling Mechanism+ Industrial Model) <input type="checkbox"/> 08 Antennas <input type="checkbox"/> Power Supply Adopter Unit (Note: This Model will Jamm mobile Signal approximately 40- 50 meters Depending on the Input Signal Strength. Makes : As per list of recommended brands.	Each	48000
			SECTION 8		
		8.1	MISCELLANEOUS ITEMS		
600	MAT-04223	ELEC-8.1.1	TW Seperators / Gutties	100 Nos	218
601	MAT-04224	ELEC-8.1.2	PVC Rawl Plugs	100 Nos	36

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
602	MAT-04225	ELEC-8.1.3	PVC Grips	100 Nos	36
603	MAT-04226	ELEC-8.1.4	U Nails	100 Nos	36
604	MAT-04227	ELEC-8.1.5	Alluminium Link Clips	100 Nos	40
605	MAT-04228	ELEC-8.1.6	50 mm G.I.Nut and Bolts.	1 Set	19
606	MAT-04229	ELEC-8.1.7	63 to 100 mm G.I.Nut and Bolts.	1 Set	31
607	MAT-04230	ELEC-8.1.8	50 mm 0 Gauge Nails	1 Doz	55
608	MAT-04231	ELEC-8.1.9	63 to 100 mm 0 Gauge Nails	1 Doz	87
609	MAT-04232	ELEC-8.1.10	Hard Coke	1 Kg	24
610	MAT-04233	ELEC-8.1.11	Salt	1 Kg	19
611	MAT-04234	ELEC-8.1.12	PVC Cleats 2 Way	100 Nos	394
612	MAT-04235	ELEC-8.1.13	PVC Cleats 4 Way	100 Nos	520
613	MAT-04236	ELEC-8.1.14	Binding Wire	1 Kg	73
614	MAT-04237	ELEC-8.1.15	PVC /cotton tape Role (8 Mtrs)	1 No	22
615	MAT-04238	ELEC-8.1.16	C.I.Knob	1 No	31
616	MAT-04239	ELEC-8.1.17	Stay tight set (Jum bracket 300 mm)	1 Pair	368
617	MAT-04240	ELEC-8.1.18	Stay clamp with bolts and Nuts)	1 Set	245
618	MAT-04241	ELEC-8.1.19	L.T.Guy insulator	1 No	91
619	MAT-04242	ELEC-8.1.20	12 / 15 MS plain rod fan hook	1 No	39

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
620	MAT-04243	ELEC-8.1.21	19 / 20 mm Steel tube fan down rod	1 Mtr	111
621	MAT-04244	ELEC-8.1.22	Consealed box PVC / MS with hook for fan	1 No	130
622	MAT-04245	ELEC-8.1.23	Supply and fixing of Anchor fastner with fan hook / Providing MS Fan hook with grouting and cement plastering.	1 No	104
623	MAT-04246	ELEC-8.1.24	Coil Earthing	1 No	91
624	MAT-04247	ELEC-8.1.25	Cable root Indicators of size 152mm round / 102mm x 102mm / 152mm x 152mm	1 No	103
625	MAT-04248	ELEC-8.1.26	40 mm x 40 mm x 6 mm angle iron with I bolt.	1 Set	306
626	MAT-04249	ELEC-8.1.27	Mild Steel Items	1 Kg	78
627	MAT-04250	ELEC-8.1.28	Acrylic Cover of size 4" x 7" for night lamps.	1 No	24
628	MAT-04251	ELEC-8.1.29	TW / PVC Round Blocks	1 No	10
629	MAT-04252	ELEC-8.1.30	G.I.Funnel with Mesh 1/2" x 4"	1 No	97
630	MAT-04253	ELEC-8.1.31	Asbestos Sheet	1 Sq Mt	31
631	MAT-04254	ELEC-8.1.32	First Aid box 18" x 12" x 8"	1 No	1301
632	MAT-04255	ELEC-8.1.33	11 KV/ 22 KV Hand gloves	1 No	242
633	MAT-04256	ELEC-8.1.34	100mm CI pipe	1 mtr	As per civil SOR
		8.2	LEGEND PLATES		
634		ELEC-8.2.1	Danger Notice Plates of size -----, shall comply with IS:2551-1982		
	MAT-	a	250x200mm,	1 No	273

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	04257				
	MAT-04258	b	200x150mm,	1 No	242
	MAT-04259	c	150x100mm,	1 No	121
635	MAT-04260	ELEC-8.2.2	Bus bar chamber 100mm x 40mm	1 No	65
636	MAT-04261	ELEC-8.2.3	Cable Alley 100mm x 40mm	1 No	65
637	MAT-04262	ELEC-8.2.4	Earth 40mm x 20mm	1 No	61
638	MAT-04263	ELEC-8.2.5	Auto / Manual	1 No	61
639	MAT-04264	ELEC-8.2.6	Semi oval type aluminium anodized legend plates ON / OFF / Forward / Reverse / Start / Stop / UP / DOWN / R Phase / Y Phase / B Phase / Trip / Open / Close / Left / Right / Motor on / Motor off / Accept / Retract / Reset / Emergency / Running / Pump off / Emergency Stop / Emergency on / Slow.	1 No	31
640	MAT-04265	ELEC-8.2.7	Shock instruction chart in English / Hindi / Telugu duly framed with front glass	1 No	545
		8.3	COPPER / ALLUMINIUM / G.I. ITEMS (PER KG)		
641	MAT-04266	ELEC-8.3.1	Copper Plate / Strip / SWG wire No.8 / 10 / 14	1 kg	746
642	MAT-04267	ELEC-8.3.2	Copper winding wire	1 kg	934
643	MAT-04268	ELEC-8.3.3	Copper winding wire with PVC Insulated of fine quality	1 kg	961
644	MAT-04269	ELEC-8.3.4	Alluminum Bus bars / Strips / Accessories	1 kg	307
645	MAT-04270	ELEC-8.3.5	Alluminum winding wire	1 kg	401
646	MAT-04271	ELEC-8.3.6	G.I. Strip / Plate / Wire	1 kg	79
		8.4	SMC TYPE SUPPORTS FOR THE BUSBARS		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
647		ELEC-8.4.1	Supply of type supports for the bus bars-----		
	MAT-04272	a	50 x 70 x 14 mm	1 No	40
	MAT-04273	b	60 x 70 x 14 mm	1 No	47
	MAT-04274	c	70 x 70 x 14 mm	1 No	87
	MAT-04275	d	300 x 50 x 10 mm	1 No	27
	MAT-04276	e	350 x 52 x 10 mm	1 No	214
	MAT-04277	f	420 x 60 x 12 mm	1 No	307
648	MAT-04278	ELEC-8.4.2	DMC Earth Flat Supports 20 x3 mm / 20x 6mm / 25 x 6mm / 25 x 3mm / 32 x 3 mm / 32 x 6mm / 40 x 3 mm / 40 x 6mm	1 No	61
649	MAT-04279	ELEC-8.4.3	Heat shrinkable sleeves for the Bus bars up to 70 Sqmm	1 Mtr	19
650	MAT-04280	ELEC-8.4.4	Heat shrinkable sleeves for the Bus bars above 70 Sqmm	1 Mtr	31
651	MAT-04281	ELEC-8.4.5	8 mm LED series bulb (54 Nos.)	Set	340
652	MAT-04282	ELEC-8.4.6	8 mm LED series bulb with Navar Patta (250/300 Nos.) with necessary control gear	Set	2833
653	MAT-05588	ELEC-8.4.7	LED RGB pixel series bulbs(50 Nos)	Set	623
654	MAT-05589	ELEC-8.4.8	LED RGB pixel series bulbs with Navvar Patta(150 Nos) with necessary control gear	Set	5099
655	MAT-05590	ELEC-8.4.9	Supply of 3W X54 LED RGB PAR cans with IP 67 protection	1 No	10764
656	MAT-04284	ELEC-8.4.10	Supply and fixing of 6mm thick MS Chekered plate.	1 Kg	91
657	MAT-04285	ELEC-8.4.11	Supply and fixing of 6mm thick Alluminium Chekered plate	1 Kg	334
658	MAT-	ELEC-	Copper old winding Wire scrap for 1 Kg	1 Kg	197

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	04286	8.4.12			
659	MAT-04287	ELEC-8.4.13	Cement	1 Kg	10
660		ELEC-8.4.14	Cost of Sand	1 Cum	726
661		ELEC-8.4.15	Cost of Bricks	1000 Nos	4840
662	MAT-04288	ELEC-8.4.16	Hylam Sheet	1 Sq inch	1
663		ELEC-8.4.17	Supply of Nominal-Bore ----- G.I.Pipe		
	MAT-04289	a	25mm Heavy grade	1 mtr	340
	MAT-04290	b	25mm Medium grade	1 mtr	298
	MAT-04291	c	40mm Heavy grade	1 mtr	510
	MAT-04292	d	40mm Medium grade	1 mtr	425
664	MAT-04293	ELEC-8.4.18	80mm Nominal Bore C.I.Earth Pipe of 3 Mtrs Length	1 no	4234
665	MAT-04294	ELEC-8.4.19	Earth work excacvation including all soils for trench, Pole Pit and Earth Pit	1 cum	303
666	MAT-04295	ELEC-8.4.20	Drilling of 16 Nos through holes of 12mm dia to G.I pipe	1 No	8
667	MAT-04296	ELEC-8.4.21	G.I Nuts, Bolts and Washers each set	1 set	14
668	MAT-04297	ELEC-8.4.22	18" dia 2" thick hume pipe ring	1 No	303
669	MAT-04298	ELEC-8.4.23	18" dia 3" hume pipe ring	1 No	363
670	MAT-04299	ELEC-8.4.24	2" thick CC cover for hume pipe ring with handle.	1 No	157
671		ELEC-8.4.25	Supply of Saddle / Clamps suitable for fixing -----		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-04300	a	4 to 10 Sqmm 2 Core Cable	100 Nos	278
	MAT-04301	b	4 & 6 Sqmm 4 Core Cable	100 Nos	278
	MAT-04302	c	10 & 16 Sqmm 4 Core Cable	100 Nos	363
	MAT-04303	d	25 & 35 Sqmm 3.5 Core Cable.	100 Nos	424
	MAT-04304	e	50 Sqmm 3.5 Core Cable.	100 Nos	605
	MAT-04305	f	70 & 95 Sqmm 3.5 Core Cable	100 Nos	666
	MAT-04306	g	120 to 185 Sqmm 3.5 Core Cable	100 Nos	847
	MAT-04307	h	240 & 300 Sqmm 3.5 Core Cable	100 Nos	1029
	MAT-04308	i	400 Sqmm 3.5 Core Cable	100 Nos	1331
672		ELEC-8.4.26	Supply and fixing of PVC synthetic elastomer electrically insulated at conforming to IS: 15652-2006 with-----		
	MAT-04309	a	Class A insulation having 2mm thickness upto 3.3KV	1 sqmt	4598
	MAT-04310	b	Class B insulation having 2.5mm thickness upto 11KV	1 sqmt	4719
	MAT-04311	c	Class C insulation having 3mm thickness upto 33KV	1 sqmt	4840
673	MAT-04312	ELEC-8.4.27	Supply of round bottom G.I sheet bucket of 9 Ltrs. Capacity as per IS:2546 made out of 24 gauge GI sheet with extra handle at bottom duly painted inside and red out side with printed with FIRE Mark for stand and hook and filled with sand and arranged to existing stand or hook. (MR)	1 no	327
674	MAT-04313	ELEC-8.4.28	Providing floor mounting stand for keeping 4No of fire bucket 1500mm length, 900mm height made out of 40x40x6mm angle iron welded with 4 hooks and duly painted with one coat of red lead and two coats	1 no	1331

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			of enamel paint.		
675		ELEC-8.4.29	Supply of GI Louver shutter for exhaust fan		
	MAT-04314	a	9 to 12"	1 no	182
	MAT-04315	b	15 to 18"	1 no	218
676	MAT-04316	ELEC-8.4.30	EICHER model 11:10 with 100 H. P direct injection 4 stroke engine with one spare wheel 3800 mm cabin high deck with jangla (full body) (4 wheeler) for generator	1 No	750200
			LABOUR RATES		
		ELEC-8.5.1	Skilled Electrician	1 No	
		ELEC-8.5.2	Semi Skilled Electrician / Lineman	1 No	
		ELEC-8.5.3	Helper (Electrical)	1 No	
		ELEC-8.5.4	Skilled Mason	1 No	
		ELEC-8.5.5	Semi Skilled Mason	1 No	
		ELEC-8.5.6	Skilled Welder	1 No	
		ELEC-8.5.7	Skilled Fitter	1 No	
		ELEC-8.5.8	Semi Skilled Fitter / Welder	1 No	
		ELEC-8.5.9	Skilled Carpenter	1 No	
		ELEC-8.5.10	Semi Skilled Carpenter	1 No	
		ELEC-8.5.11	Man Mazdoor	1 No	
		ELEC-8.5.12	DG Set operator/Air Compressor Operator	1 No	

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
		ELEC-8.5.13	2nd Class DG Set operator/Air Compressor Operator	1 No	
		ELEC-8.5.14	Plumber (Licensed)/Pipe Fitter	1 No	
		ELEC-8.5.15	Painter Class -2	1 No	
		ELEC-8.5.16	Diploma Engineer / Surveyor	1 No	
		ELEC-8.5.17	Graduate Engineer	1 No	
		ELEC-8.5.18	ITI Certificate holder	1 No	
		ELEC-8.5.19	Stenographer / Computer Operator	1 No	
			NB : The labour rates may be adopted based on the common Civil SoR for the year 2022-23		
		9.1	WIRELESS FIRE ALARAM SYSTEM		
677	MAT-04336	ELEC-9.1.1	Supply and fixing of wireless smoke detection control panel of 28 wireless zones, 2 Hard wired Zones, Tamper Alert, Pass code protected, RF jamming recognition, diagnostic feature for RF signal strength between panel and each detector, vent reporting using PSTN telephone line, dialing upto 4 telephone numbers, event reporting as per users choice, LCD screen display, two way voice interaction, battery backup stand by time up to 12 hrs. Including transportation, all taxes and all labour charges etc complete. Makes : As per list of recommended brands.	1 No	48300
678	MAT-04337	ELEC-9.1.2	Supply and fixing of Wireless Repeater.The wireless repeater extends the communication range of detection by relaying data between receiver and remote wireless transmitter including transportation, all taxes and all labour charges etc complete. Makes : As per list of recommended brands.	1 No	9775

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
679	MAT-04338	ELEC-9.1.3	Supply and fixing of Wireless Siren Strobe external wireless siren - a fully supervised power code outdoor (IP55) wireless Siren and strobe light. Designed for external installation. Wire - Free connection between control panel and siren. Convenient rapid no- mess installation. Separate fire alarm signals, 98db Piezo siren and high power strobe light. Weather resistant, IP55, 2-way communication for local and remote diagnostics. Plug-in power supply, NIMH rechargeable back-up power battery, transmits status, tamper, low- battery, supervisory and AC loss messages to the control panel, Tri- State tamper switch identifies screw manipulation removal of cover or playing from the wall including transportation, all taxes and all labour charges etc complete. Makes : As per list of recommended brands.	1 No	13225
680	MAT-04339	ELEC-9.1.4	Supply and fixing of wireless Fully Supervised Smoke Detector, Photoelectric detection technology for superior detection sensitivity , sound and transmitted for smoke, tamper and low battery, works on power code protocol, easy programming and enrolling to the control panel, long life 9 volt alkaline or lithium battery including transportation, all taxes and all labour charges etc complete. Makes : As per list of recommended brands.	1 No	7936
		9.2	ADDRESSABLE - FIRE ALARM SYSTEM		
681		ELEC-9.2.1	Supply, install, test and commissioning of addressable peer to peer Networkable analogue addressable type fire alarm control panel with minimum 1500 Character / 240X64 Pixel / 7inch Touchscreen graphic LCD display. The panel should be equipped with sufficient numbers of loop with 20% spare capacity, with each networkable intelligent fire alarm Control Panel having SLC with capacity of min 250 detectors/ devices in any combination (Min 120 Detector) with key pad, dual flash-based microprocessor technology, inbuilt USB Port for upload and down load the configuration tools, RS232 serial port for direct PC or modem connection, inbuilt NAC's, min 20 programmable Zonal LEDs and operates on 240V AC + 10% with 50 Hz with built in charger. The panel shall have fire, fault relays, option of BMS integration MODBUS/ BACKNET, graphical software for provision of TCP/ IP modules, Remote Access, Class 'X' wiring with provision of both class 'A' and class 'B' wiring in the SLC circuit, user friendly with communication facility to monitor & control the FACPs from a single window. The panel shall be suitable for minimum of 5000 event		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			record facility, event fetch from FACP facility and the single panel shall be suitable for min 2000 fire zones and 200 Panels/ Nodes in one network with all other accessories required to successfully run the system. The panel shall be completed as per UL and FM/EN54 & VDS standards (The System cost shall be included of all necessary cards, modules, Panel enclosure, CPU and associated accessories to complete the system design) Makes : As per list of recommended brands as category I.		
	MAT-04340	a	1 loop	1 No	221375
	MAT-04341	b	2 loop	1 No	253000
	MAT-04342	c	4 loop	1 No	309925
	MAT-04343	d	6 loop	1 No	461725
	MAT-04344	e	8 loop	1 No	506000
	MAT-04345	f	10 loop	1 No	695750
682		ELEC-9.2.2	Supply, install, test and commissioning of addressable peer to peer Networkable analogue addressable type fire alarm control panel with minimum 1500 Character / 240X64 Pixel / 7inch Touchscreen graphic LCD display. The panel should be equipped with sufficient numbers of loop with 20% spare capacity, with each networkable intelligent fire alarm Control Panel having SLC with capacity of min 250 detectors/ devices in any combination (Min 120 Detector) with key pad, dual flash-based microprocessor technology, inbuilt USB Port for upload and down load the configuration tools, RS232 serial port for direct PC or modem connection, inbuilt NAC's, min 20 programmable Zonal LEDs and operates on 240V AC + 10% with 50 Hz with built in charger. The panel shall have fire, fault relays, option of BMS integration MODBUS/ BACKNET, graphical software for provision of TCP/ IP modules, Remote Access, Class 'X' wiring with provision of both class 'A' and class 'B' wiring in the SLC circuit, user friendly with communication facility to monitor & control the FACP's from a single window. The panel shall be suitable for minimum of 5000 event record facility, event fetch from FACP facility and the single panel shall be suitable for min 2000 fire zones and 200 Panels/ Nodes in one network with all other accessories required to successfully run the system. (The System cost shall be included of all necessary cards, modules, Panel enclosure, CPU and associated accessories to complete the system		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			design). Makes : As per list of recommended brands as category II.		
	MAT-04346	a	1 loop	1 No	198605
	MAT-04347	b	2 loop	1 No	222640
	MAT-04348	c	4 loop	1 No	258060
	MAT-04349	d	6 loop	1 No	373175
	MAT-04350	e	8 loop	1 No	432630
	MAT-04351	f	10 loop	1 No	619850
683	MAT-04352	ELEC-9.2.3	Supply, Installation , Testing & Commissioning of Network Active Repeater Panel with 1500 Character / 240X64 Pixel / 7inch Touchscreen. The LCD shall Display all events / detectors, devices status of complete systems in the networked. Makes : As per list of recommended brands as category I.	1 No	132825
684	MAT-04353	ELEC-9.2.4	Supply, Installation , Testing & Commissioning of Network Active Repeater Panel with 1500 Character / 240X64 Pixel / 7inch Touchscreen. The LCD shall Display all events / detectors, devices status of complete systems in the networked. Makes : As per list of recommended brands as category II.	1 No	108158

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
685	MAT-04354	ELEC-9.2.5	Supply, Installation, Testing & Commissioning of Analogue Addressable loop powered Sounder & Beacon with inbuilt isolator and having Min 15 distinct sound patterns/ multitone to indicate Exit doors and direct occupants for safe and fast evacuation and 100dB output with minimum 1Hz Frequency flash rate designed for IP65 requirements and approved to operate in -10°C to +55°C temperature, complies with the essential requirement of the EMC Directive to be supplied with Junction Box, Glands and other mounting accessories for proper installation. Makes : As per list of recommended brands as category I.	1 No	5819
686	MAT-04355	ELEC-9.2.6	Supply, Installation, Testing & Commissioning of Analogue Addressable loop powered Sounder & Beacon with inbuilt isolator and having Min 15 distinct sound patterns/ multitone to indicate Exit doors and direct occupants for safe and fast evacuation and 100dB output with minimum 1Hz Frequency flash rate designed for IP65 requirements and approved to operate in -10°C to +55°C temperature, complies with the essential requirement of the EMC Directive to be supplied with Junction Box, Glands and other mounting accessories for proper installation Makes : As per list of recommended brands as category II.	1 No	4681
687	MAT-04356	ELEC-9.2.7	Supply, Installation, Testing & Commissioning of Dust and Vermin proof (Resettable) addressable analogue Manual call boxes along with Isolators inbuilt having front reset mechanism with 170° viewable LED and can be viewed from the distance of 7 M. also have inbuilt isolator having operating temperature from -40°C-70°C to initiate audio visual alarm in case of Human detection of fire. The manual call point must be indoor type with IP 44 rating.The call point must be ressetable type without breakglass. Makes : As per list of recommended brands as category I.	1 No	5693
688	MAT-04357	ELEC-9.2.8	Supply, Installation, Testing & Commissioning of Dust and Vermin proof (Resettable) addressable analogue Manual call boxes along with Isolators inbuilt having	1 No	5060

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			front reset mechanism with 170° viewable LED and can be viewed from the distance of 7 M. also have inbuilt isolator having operating temperature from -40°C-70°C to initiate audio visual alarm in case of Human detection of fire. The manual call point must be indoor type with IP 44 rating.The call point must be ressetable type without breakglass. Makes : As per list of recommended brands as category II.		
689	MAT-04358	ELEC-9.2.9	Optical smoke detector with LED with standard base having capacity of min 126 address combination. Operating temperature -40°C to 70°C & Humidity 0-95%. The detector should have polling 360 degree viewable LED with 5 class approved response modes all approved with the relevant standards , drift compensation and transient rejection.The detector shall have facility to mount in different comprehensive environment like Hostile environment, Precious storage, Ware house and normal working environments. The detector should have self locking mechanism and requires special tool to remove this detectors. The detector should have hard address inside the base. The detector must have non volatile memory to write the installation date & site codes.The detector should be mad up of fire retardant material & should be melt above 100 degree C.The detectors must be openable for the cleaning of dust whenever required. All the other specs should be as per the specification attached. Makes : As per list of recommended brands as category I.	1 No	4807
690	MAT-04359	ELEC-9.2.10	Optical smoke detector with LED with standard base having capacity of min 126 address combination. Operating temperature -40°C to 70°C & Humidity 0-95%. The detector should have polling 360 degree viewable LED with 5 class approved response modes all approved with the relevant standards , drift compensation and transient rejection.The detector shall have facility to mount in different comprehensive environment like Hostile environment, Precious storage, Ware house and normal working environments. The detector should have self locking mechanism and requires special tool to remove this detectors. The detector should have hard address	1 No	4238

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			inside the base. The detector must have non volatile memory to write the installation date & site codes. The detector should be mad up of fire retardant material & should be melt above 100 degree C. The detectors must be openable for the cleaning of dust whenever required. All the other specs should be as per the specifications. Makes : As per list of recommended brands as category II.		
691	MAT-04360	ELEC-9.2.11	Analogue Addressable Heat detector and LED with standard base having capacity of min 126 address combination. Storage temperature -40°C to 80°C & Humidity 0-95%. The detector shall have facility to mount in different comprehensive environment like Hostile environment, Precious storage, Ware house and normal working environments. The heat detector must trigger the alarm as per the A1R/A2R/A2S/CR/CS requirement. The detector should have self locking mechanism and requires special tool to remove this detectors. The detector must have non volatile memory to write the installation date & site codes. Makes : As per list of recommended brands as category I.	1 No	5187
692	MAT-04361	ELEC-9.2.12	Analogue Addressable Heat detector and LED with standard base having capacity of min 126 address combination. Storage temperature -40°C to 80°C & Humidity 0-95%. The detector shall have facility to mount in different comprehensive environment like Hostile environment, Precious storage, Ware house and normal working environments. The heat detector must trigger the alarm as per the A1R/A2R/A2S/CR/CS requirement. The detector should have self locking mechanism and requires special tool to remove this detectors. The detector must have non volatile memory to write the installation date & site codes. Makes : As per list of recommended brands as category II.	1 No	4554

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
693	MAT-04362	ELEC-9.2.13	<p>Analogue Addressable Multisensor (Smoke & Heat) detector with LED with standard base having capacity of min 126 address combination. Operating temperature -40°C to 70°C && Humidity 0-95%. The detector should have polling 360 degree viewable LED with 5 class approved response modes all approved with the relevant standards , drift compensation and transient rejection. The detector should trigger heat alarm as per the A1R class requirement.The detector shall have facility to mount in different comprehensive environment like Hostile environment, Parking Garage, Precious storage, Ware house and normal working environments. The detector should have self locking mechanism and requires special tool to remove this detectors.The detector should have hard address inside the base.The detector should be mad up of fire retardant material & should be melt above 100 degree C. The detectors must be openable for the cleaning of dust whenever required.The detector must have 4 non volatile memory to write the installation date & site codes</p> <p>Makes : As per list of recommended brands as category I.</p>	1 No	5313
694	MAT-04363	ELEC-9.2.14	<p>Analogue Addressable Multisensor (Smoke & Heat) detector with LED with standard base having capacity of min 126 address combination. Operating temperature -40°C to 70°C && Humidity 0-95%. The detector should have polling 360 degree viewable LED with 5 class approved response modes all approved with the relevant standards , drift compensation and transient rejection. The detector should trigger heat alarm as per the A1R class requirement.The detector shall have facility to mount in different comprehensive environment like Hostile environment, Parking Garage, Precious storage, Ware house and normal working environments. The detector should have self locking mechanism and requires special tool to remove this detectors.The detector should have hard address inside the base.The detector should be mad up of fire retardant material & should be melt above 100 degree C. The detectors must be openable for the cleaning of dust whenever required.The detector must have 4 non</p>	1 No	4554

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			volatile memory to write the installation date & site codes Makes : As per list of recommended brands as category II.		
695	MAT-04364	ELEC-9.2.15	Supply, install, test and commissioning of Analogue addressable Control (Input/Output) module with inbuilt relay and isolator with LED indicator, approved to operate in -10°C to +55°C temperature, complies with the essential requirement of the EMC Directive to be supplied with Junction Box and other mounting accessories for proper installation. In case of Manufacturer with single Input or Output module need to supply One quantity of each for line item. Makes : As per list of recommended brands as category I.	1 No	5313
696	MAT-04365	ELEC-9.2.16	Supply, install, test and commissioning of Analogue addressable Control (Input/Output) module with inbuilt relay and isolator with LED indicator, approved to operate in -10°C to +55°C temperature, complies with the essential requirement of the EMC Directive to be supplied with Junction Box and other mounting accessories for proper installation. In case of Manufacturer with single Input or Output module need to supply One quantity of each for line item . Makes : As per list of recommended brands as category II.	1 No	4681
	MAT-04366	ELEC-9.2.17	Deleted	1 No	
	MAT-04367	ELEC-9.2.18	Deleted	1 No	
697	MAT-04368	ELEC-9.2.19	Supply, Installation, Testing & Commissioning of Loop isolation module which consists of LED. This LED shall be mounted with in a round polycarbonate enclosure. Isolator Base for Isolators. Makes : As per list of recommended brands as category I.	1 No	4807
698	MAT-04369	ELEC-9.2.20	Supply, Installation, Testing & Commissioning of Loop isolation module which consists of LED. This LED shall be mounted with in a round polycarbonate enclosure. Isolator Base for Isolators. Makes : As per list of recommended brands as	1 No	3795

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			category II.		
		9.3	CONVENTIONAL - FIRE ALARM SYSTEM		
699		ELEC-9.3.1	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with, 12V SMF batteries etc., complete with all standard accessories. Makes : As per list of recommended brands.		
	MAT-04370	a	2 Zone	1 No	17078
	MAT-04371	b	4 Zone	1 No	18343
	MAT-04372	c	6 Zone	1 No	18975
	MAT-04373	d	8 Zone	1 No	19608
	MAT-04374	e	10 Zone	1 No	24668
	MAT-04375	f	12 Zone	1 No	28463
	MAT-04376	g	14 Zone	1 No	32258
700	MAT-04377	ELEC-9.3.2	Supply and installation of Repeater panel including the cost of mounting accessories complete as per specifications and as required. Makes : As per list of recommended brands.	1 No	15180
701	MAT-04378	ELEC-9.3.3	Supply and installation of duel tone electronic hooter of 85dB including the cost of mounting accessories complete as per specifications and as required. Makes : As per list of recommended brands.	1 No	949
702	MAT-04379	ELEC-9.3.4	Supply and installation of dust and vermin proof manual call point to initiate audio visual alarm including the cost of mounting accessories complete as per specifications and as required. Makes : As per list of recommended brands.	1 No	759

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
703	MAT-04380	ELEC-9.3.5	Supply and installation of response indicators for above false ceiling detectors. Makes : As per list of recommended brands.	1 No	190
704	MAT-04381	ELEC-9.3.6	Supply and installation of plug - in type multi criterion detectors including the cost of base plate. 75mm dia M.S. outlet box for fixing of the detector base. Mounting accessories etc., complete as per specifications as required. Makes : As per list of recommended brands.	1 No	2024
705	MAT-04382	ELEC-9.3.7	Supply and installation of plug -in type photo electric smoke detectors including the cost of base plate. 75mm dia MS outlet box for fixing of the detector base. Mounting accessories etc complete and as per specifications and as required. Makes : As per list of recommended brands.	1 No	1771
706	MAT-04383	ELEC-9.3.8	Supply and installation of plug -in type rate of rise cum fixed temperature heat detectors including the cost of base plate. 75mm dia MS outlet box for fixing of the detector base, mounting accessories etc., complete as per specifications and as required. Makes : As per list of recommended brands.	1 No	1645
		9.4	POWDER BASED FIRE EXTINGUISHERS		
707			Supply and fixing of ABC stored pressure squeeze grip type fire extinguishers, 9 kg capacity, IS:15683 : 2006, filled with ABC Mono Ammonium Phosphate base powder-90 complete with discharge hose and wall mounting bracket, 2mm Mild Steel, EPDM Rubbers, Pressure Guage, which work effectively on all class of fires (A, B, C & Electrical fires) with 5 years warranty Including transportation, all taxes and all labour charges etc complete.		
	MAT-04384	ELEC-9.4.1	Makes : As per list of recommended brands as category I.	1 No	13041
	MAT-04385	ELEC-9.4.2	Makes : As per list of recommended brands as category II.	1 No	7176

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
708			Supply and fixing of ISI mark (IS:15683) Mono ammonium phosphate powder 90 (MAP) 2 Kg Fire extinguisher, stored pressure type, pressure gauge, gross wt. 3.6 kg, empty wt.1.6 kg, Discharge time minimum 8 sec, controllable discharge mechanism, range min. 2 mts applicable on classes A,B, C & electrically started fire, A rating -2 A, B rating -21 B, can construction: Deep drawn and Co2 mig welding, Valve construction: Forging & Machining, internal coating of can: Epoxy powder coating, External coating of Can:Epoxy polyester powder coating, sheet metal thickness:1.60mm, Helium leak detection tested with 5 years warranty Including transportation, all taxes and all labour charges etc complete.		
	MAT-04386	ELEC-9.4.3	Makes : As per list of recommended brands as category I.	1 No	6440
	MAT-04387	ELEC-9.4.4	Makes : As per list of recommended brands as category II.	1 No	5474
709			Supply and fixing of ISI mark (IS:15683) Mono ammonium phosphate powder 90 (MAP) 4 Kg Fire extinguisher, stored pressure type, pressure gauge, gross wt. 6.9 kg, empty wt.2.9 kg, Discharge time minimum 13 sec, controllable discharge mechanism, range min. 4 mts applicable on classes A,B, C & electrically started fire, A rating -3 A, B rating -34 B, can construction: Deep drawn and Co2 mig welding, Valve construction: Forging & Machining, internal coating of can: Epoxy powder coating, External coating of Can:Epoxy polyester powder coating, sheet metal thickness:1.60mm, Helium leak detection tested with 5 years warranty Including transportation, all taxes and all labour charges etc complete.		
	MAT-04388	ELEC-9.4.5	Makes : As per list of recommended brands as category I.	1 No	9177
	MAT-04389	ELEC-9.4.6	Makes : As per list of recommended brands as category II.	1 No	6118
710			Supply and fixing of ISI mark (IS:15683) Mono ammonium phosphate powder 90 (MAP) 6 Kg Fire extinguisher, stored pressure type, pressure gauge, gross wt. 9.4 kg, empty wt.3.4 kg, Discharge time minimum 13 sec, controllable discharge mechanism, range min. 4 mts applicable on classes A,B, C & electrically started fire, A rating -4 A, B rating -34 B, can construction: Deep drawn and Co2 mig welding, Valve construction: Forging & Machining, internal coating of can: Epoxy powder coating, External coating of Can:Epoxy polyester powder coating, sheet metal thickness:1.60mm, Helium leak detection tested with 5 years warranty Including transportation, all taxes and all labour charges etc complete.		
	MAT-	ELEC-	Makes : As per list of recommended brands as	1 No	10465

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	04390	9.4.7	category I.		
	MAT-04391	ELEC-9.4.8	Makes : As per list of recommended brands as category II.	1 No	8372
			CLEAN AGENT FIRE EXTINGUISHERS		
711			Supply and fixing of ISI mark (IS:15683) Clean Agent HCFC 123, 2 KG Fire extinguisher , Stored pressure type, pressure guage, gross weight 3.7Kg , empty weight 1.7 Kg, discharge time minimum 8 secs, controllable discharge mechanism, range minimum 2 meters, applicable on class A,B,C and electrically started Fire, A rating- 1A, B rating-21B, can construction: Deep drawn & CO2 mig welded, Valve construction: Forging & Machining, Internal coating of Can: Epoxy powder coating, External coating of can: Epoxy polyester powder coating, sheet metal thickness: 1.60 mm, Helium leak detection tested, 5 Years warranty		
	MAT-04392	ELEC-9.4.9	Makes : As per list of recommended brands as category I.	1 No	18676
	MAT-04393	ELEC-9.4.10	Makes : As per list of recommended brands as category II.	1 No	15456
712			Supply and fixing of ISI mark (IS:15683) Clean Agent HCFC 123, 4 Kg Fire extinguisher , Stored pressure type, pressure guage, gross weight 6.9Kg , empty weight 2.9 Kg, discharge time minimum 8 secs, controllable discharge mechanism, range minimum 2 meters, applicable on class A,B,C and electrically started Fire, A rating- 1A, B rating-21B, can construction: Deep drawn & CO2 mig welded, Valve construction: Forging & Machining, Internal coating of Can: Epoxy powder coating, External coating of can: Epoxy polyester powder coating, sheet metal thickness: 1.60 mm, Helium leak detection tested, 5 Years warranty.		
	MAT-04394	ELEC-9.4.11	Makes : As per list of recommended brands as category I.	1 No	31395
	MAT-04395	ELEC-9.4.12	Makes : As per list of recommended brands as category II.	1 No	28175
713			Supply and fixing of Co2 type Fire Extinguishers 4.5 Kg capacity confirming to IS 2878 made from ISI marked steam less cylinder confirming to IS:7285 & CE certified and fitted with ISI marked controlled valve confirming to IS:3224, high pressure 1 Mtr discharge hose & horn complete with initial gas charged with carrying handle with wheels and wall mounting bracket. Squeeze lever discharge, used un-used indicator, Aphoxy coated paint (Red) with 93% gloss with 2 years warranty Including transportation, all taxes and all labour charges etc complete.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-04396	ELEC-9.4.13	Makes : As per list of recommended brands as category I.	1 No	14329
	MAT-04397	ELEC-9.4.14	Makes : As per list of recommended brands as category II.	1 No	10787
714	MAT-04398	ELEC-9.4.15	Supply and fixing of Escape signage boards in Rigid Photo luminescent based glow in Dark rigid sheet with high intensity luminous properties with specification. Makes : As per list of recommended brands.	1 No	1518
715	MAT-04399	ELEC-9.4.16	Supply and fixing of Cease fire or its equivalent Escape gear Mild Steel box size 425mmx360mmx140mm Epoxy powder coated to protect it from Weathering , smoke hood tested to European Standard EN 403 1993-S known to reduce Carbon Monoxide, propand(acrolein), hydrogen chloride, hydrogen Cyanide and Solid and liquid toxic particles to manageable level for atleast 15 minutes shall with stand temperatures upto 80 degrees single use only Fire Blanket size 1.2m x1.8m used to cover any vessel containing used to Extinguish a clothing fire wrap blanket around the victim.	1 No	17078
716	MAT-04400	ELEC-9.4.17	Supply and fixing of 4Nos of 9 Ltrs capacity round bottom sand buckets along with bucket sand, Fire buckets with round bottom type enamel painted, white inside & red out side and letter FIRE in black out side & Handle with mounting bracket.	1 Set	1518
717	MAT-04401	ELEC-9.4.18	Supply and fixing of Fire bucket stand fabricated by M.S. angles to install for Four numbers of buckets as per local fire officers standards.	1 Set	1898
			AEROSOL GENERATION SYSTEM		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			(An alternative to water based sprinkler system)		
718	MAT-05591	ELEC-9.4.19	Supply, Installation and commissioning of Auto Detection and Suppression System using Non Pressurised Aerosol Generator System with detection of thermocord to make the system standalone. It can be used for all classes of fire, The product Min. Life shall be 15 years and no Maintenance. The Discharge time shall be 8 sec. The Generator has a net weight of 0.5 kg. Active Substance of 50gms. The Generator has a capacity to cover 1 m ³ . Makes : As per list of recommended brands.	1 No	5175
719	MAT-05592	ELEC-9.4.20	Supply, Installation and commissioning of Auto Detection and Suppression System using Non Pressurised Aerosol Generator System with detection of thermocord and Inbuilt Aerosol Sprinkler flexibility of adjusting it for a temperature of 57/68/93/141 degree centigrade as per the site environment to make the system standalone. It can be used for all classes of fire, The product Min. Life shall be 15 years and no Maintenance. The Discharge time shall be 18 sec. The Generator has a net weight of 2 kg. Active Substance of 300 gms. The Generator has a capacity to cover 6 m ³ . Makes : As per list of recommended brands.	1 No	40250
720	MAT-05593	ELEC-9.4.21	Supply, Installation and commissioning of Auto Detection and Suppression System using Non Pressurised Aerosol Generator System with detection of thermocord and Inbuilt Aerosol Sprinkler flexibility of adjusting it for a temperature of 57/68/93/141 degree centigrade as per the site environment to make the system standalone. It can be used for all classes of fire, The product Min. Life shall be 15 years and no Maintenance. The Discharge time shall be 22 sec. The Generator has a net weight of 3 kg. Active Substance of 0.5 kg. The Generator has a capacity	1 No	51750

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			to cover 10 m ³ . Makes : As per list of recommended brands.		
721	MAT-05594	ELEC-9.4.22	Supply,Installationand commissioning of Auto Detection and Suppression System using Non Pressurised Aerosol Generator System with detection of thermocord and Inbuilt Aerosol Sprinkler flexibility of adjusting it for a temperature of 57/68/93/141 degree centigrade as per the site environment to make the system standalone to make the system standalone. It can be used for all classes of fire, The product Min. Life shall be 15 years and no Maintenance. The Discharge time shall be 45 sec. The Generator has a net weight of 4.6 kg. Active Substance of 1 kg. The Generator has a capacity to cover 20 m ³ . Makes : As per list of recommended brands.	1 No	74750
723	MAT-05595	ELEC-9.4.23	Supply,Installationand commissioning of Auto Detection and Suppression System using Non Pressurised Aerosol Generator System with detection of thermocord and Inbuilt Aerosol Sprinkler flexibility of adjusting it for a temperature of 57/68/93/141 degree centigrade as per the site environment to make the system standalone to make the system standalone. It can be used for all classes of fire. The product Min. Life shall be 15 years and no Maintenance. The Discharge time shall be 56 sec.The Generator has a net weight of 5.6 kg. Active Substance of 2 kg. The Generator has a capacity to cover 40 m ³ . Makes : As per list of recommended brands.	1 No	94300
724	MAT-05596	ELEC-9.4.24	Supply,Installationand commissioning of Auto Detection and Aerosol Suppression System using Non Pressurised Aerosol Generator System with detection of thermocord and Inbuilt Aerosol Sprinkler flexibility of adjusting it for a temperature of 57/68/93/141 degree centigrade as per the site environment to make the system standalone. It can be used for all classes of fire, The product Min. Life shall be 15 years and no Maintenance. The Discharge time should be 80 sec. The Generator has a net weight of 8 kg. Active Substance of 4 kg. The Generator has a capacity to cover 80 m ³ .	1 No	106950

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands.		
725	MAT-05597	ELEC-9.4.25	Supply,Installationand commissioning of Aerosol Fire suppression control Panel is basically a 10 Zone conventional panel with LED indications for sensors is open or fire. When the fire is detected by Sprinkler, Aerosol gets activated. 10 Aerosol Sprinkler input and 10 Aerosol Generator outputs provided. The Panel consists of 10 individual manual operation switch and one master switch to activate 10 Aerosol Generator outputs simultaneously	1 No	80500
726	MAT-05598	ELEC-9.4.26	Supply,Installationand commissioning of Aerosol control Switch is a Controller for Activation of Each Aerosol Generator Makes : As per list of recommended brands.	1 No	22425
727	MAT-05599	ELEC-9.4.27	Providing 'Fire Retardant Paint 1 hr Fire Resistance can be used to 'flame retard only 100 % cotton fabric, is normally used 'to treat coarse fabric e.g. tents etc. and gives coverage of 'approx. 120 to 130 sq.ft. to a fabric of 275-325 gsm. 'Can be applied 'Meant only for 100% cotton and coarse fabric like canvas ' / tents, natural wood etc. Makes : As per list of recommended brands.	1 No	2185
728	MAT-05600	ELEC-9.4.28	Providing 'Flame retard any kind of fabric, be it 100% polyester or '100% cotton. It is normally used to flame 'retard upholstery, curtains, carpets etc., gives a coverage 'of approx. 120 to 130 sq.ft. to a fabric of 275-325 gsm.	1 No	2990
729	MAT-05601	ELEC-9.4.29	Providing 'Fire Retardant coat towards passive protection to sustain 'up to 1000 Deg.C. for 1 hour. This product can be used for 'all the materials such as cable, steel, wood, cloth & 'concrete surface etc.	1 No	4830
		ELEC-9.4.30	AUTO ABC 150KG FIRE EXTINGUISHING SYSTEM WITH AUTO FIRE DETECTION TUBE TECHNOLOGY SKIT MOUNTED ABC powder firefighting unit 150 kg capacity. Vessels are made of	1 NO	588525

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			<p>boiler quality steel plate 8 mm thick radiography welding as per ASME code. Skit mounted having a Auto Fire Detection tube 25mtr. Long fitted. The discharge line can be fixed with open type nozzle, expelling agent of Co2 cylinder agent which is fitted with Auto Fire Detection specially designed imported Ceodeux valve and specially designed DIFFUSER SYSTEM to achieve minimum 98% discharge. Used for all classes of fire</p> <p>This system consists of the following: Expelling cylinder and Skit mounted ABC container with discharge output nozzle Expelling container connected through with manifold & diffuser nozzle to main cylinder. It is also fitted with Ceodex Valve, one end connected with Auto Fire Detection Tube to detect and another end fitted with pressure switch and hooter. Auto Fire Detection Tube will be installed with pressure of 12kg/cm². In case of fire the tube gets rupture in the temperature 115oC . Whereby the pressure in tube comes down to 0 level sudden falling in pressure opens the valve and release the expelling gas to main cylinder through manifold and diffuser systems. Discharge from main cylinder at fixed pressure through rapture disc to flood and quench fire instantly. Rapture disc can also be designed depends upon hazardous area. This the only latest technology which is used for all kind of inflammable hazards at open area. The fire fighting unit shall be made strictly as per the specifications to the satisfaction of State Disaster Response and Fire Services Vijayawada. Makes: As per list of recommended brands.</p>		
		9.5	FIRE HYDRANT AND SPRINKLER SYSTEM		
			ELECTRIC DRIVEN MAIN FIRE PUMPS(SPLIT CASE)		
730	MAT-04402	ELEC-9.5.1	Supplying, installation, testing and commissioning of electric driven main fire pump suitable for automatic operation and consisting of following complete in all respect as required	1 Set	401856

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 1620 lpm at 56 Mtr. head conforming to IS 1520		
			b) Suitable HP SQ cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415Volts, 3 phase 50 Hz. AC with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
731	MAT-04403	ELEC-9.5.2	Supplying , installation , testing and commissioning of electric driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	452088
			a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 2280 lpm at 70 Mtr. head conforming to IS 1520		
			b) Suitable HP SQ cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415Volts, 3 phase 50 Hz. AC with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
732	MAT-04404	ELEC-9.5.3	Supplying Installation, testing and Commissioning of electric driven main fire pump suitable for automatic operation and consisting of following Complete in all respect as required.		703248
			a)Horizontal type, multistage, centrifugal, split casing pump of cast iron body and bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 kg/sq.cm. at highest and farthest outlet at specified flow of 2280 LPM and 120 Metres head conforming to IS 1520.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			b)Suitable HP SQ cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415 volts, 3 phase 50 Hz. AC with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325		
			c)M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required.		
			d)Suitable CC foundation of 1:2:4 ratio (1 Cement: 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) duly plastered and with anti vibration pads. Makes : As per list of recommended brands.		
733	MAT-04405	ELEC-9.5.4	Supplying , installation , testing and commissioning of electric driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required.	1 Set	521157
			a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 2850 lpm at 70 Mtr. head conforming to IS 1520		
			b) Suitable HP SQ cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415Volts, 3 phase 50 Hz. AC with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
734	MAT-04406	ELEC-9.5.5	Supplying Installation, testing and Commissioning of electric driven main fire pump suitable for automatic operation and consisting of following Complete in all respect as required.	1 Set	728364
			a)Horizontal type, multistage, centrifugal, split casing pump of cast iron body and bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 kg/sq.cm. at highest and farthest outlet at specified flow of 2850 LPM and 120 Metres head conforming to IS 1520.		
			b)Suitable HP SQ cage induction motor, TEFC, synchronous speed 1470 RPM, suitable for operation on 415 volts, 3 phase 50 Hz. AC with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F'		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			insulation, conforming to IS-325		
			c)M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required.		
			d)Suitable CC foundation of 1:2:4 ratio (1 Cement: 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) duly plastered and with anti vibration pads Makes : As per list of recommended brands.		
			DIESEL ENGINE DRIVEN FIRE PUMPS		
735	MAT-04407	ELEC-9.5.6	Supplying , installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	522413
			a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 1620 lpm at 56 Mtr head conforming to IS 1520		
			b) Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant BS & IS standard complete with auto starting mechanism, 12 Volts / 24 Volts electric starting equipment, Diesel Tank, exhaust pipe extended upto 1 m. outside pump house duly insulated with 50mm thick glass wool with 1.0mm thick aluminium sheet cladding, residential silencer, instruments and protection as per specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc as required.		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
736	MAT-04408	ELEC-9.5.7	Supplying , installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	753480

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 2280 lpm at 70 Mtr head conforming to IS 1520		
			b) Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant BS & IS standard complete with auto starting mechanism, 12 Volts / 24 Volts electric starting equipment, Diesel Tank, exhaust pipe extended upto 1 m. outside pump house duly insulated with 50mm thick glass wool with 1.0mm thick aluminium sheet cladding, residential silencer, instruments and protection as per specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc as required.		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
737	MAT-04409	ELEC-9.5.8	Supplying , installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required		910455
			a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 2280 lpm at 120 Mtr head conforming to IS 1520		
			b) Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant BS & IS standard complete with auto starting mechanism, 12 Volts / 24 Volts electric starting equipment, Diesel Tank, exhaust pipe extended upto 1 m. outside pump house duly insulated with 50mm thick glass wool with 1.0mm thick aluminium sheet cladding, residential silencer, instruments and protection as per specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc as required.		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
738	MAT-04410	ELEC-9.5.9	Supplying , installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	853944
			a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 2850 lpm at 70 Mtr head conforming to IS 1520		
			b) Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant BS & IS standard complete with auto starting mechanism, 12 Volts / 24 Volts electric starting equipment, Diesel Tank, exhaust pipe extended upto 1 m. outside pump house duly insulated with 50mm thick glass wool with 1.0mm thick aluminium sheet cladding, residential silencer, instruments and protection as per specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc as required.		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
739	MAT-04411	ELEC-9.5.10	Supplying , installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	973245
			a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 2850 lpm at 120 Mtr head conforming to IS 1520		
			b) Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant BS & IS standard complete with auto starting mechanism, 12 Volts / 24 Volts electric starting equipment, Diesel Tank, exhaust pipe extended upto 1 m. outside pump house duly insulated with 50mm thick glass wool with 1.0mm thick aluminium sheet cladding, residential silencer, instruments and protection as per specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc as required.		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
			ELECTRIC DRIVEN MAIN FIRE PUMPS(END SUCTION)		
740	MAT-04412	ELEC-9.5.11	Supplying , installation , testing and commissioning of electric driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	301392
			a) End suction back pull out centrifugal pump, Std fitted with BRONZE IMPELLER & gland packing ,capacity 171 Cum/hr (2850 LPM) at total head 70 M at operating speed 2900 rpm. Pump duty as per TAC		
			b) 55 KW / 75 HP, 3000 srpm, TEFC (IP55) horizontal foot mounted, squirrel cage induction motor, suitable for 415 volts +/- 10%, 3 Ph, 50 Hz +/-5%, a.c.supply. Class 'F' insulated and suitable for ambient temperature up to 50 deg C. Motor in frame SC 250 M frame for driving above pump.		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
741	MAT-04413	ELEC 9.5.12	Supplying , installation , testing and commissioning of electric driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	246137
			a) End suction back pull out centrifugal pump, Std fitted with BRONZE IMPELLER & gland packing ,capacity 137 Cum/hr (2280 LPM) at total head 70 mwc at operating speed 2900 rpm. Pump duty as per TAC		
			b) 45 KW / 60 HP, 3000 srpm, TEFC (IP55) Horizontal foot mounted, squirrel cage induction motor, suitable for 415 volts +/- 10%, 3 Ph, 50 Hz +/-5%, a.c.supply. Class 'F' insulated and suitable for ambient temperature up to 50 deg C. Motor in frame SC 225 M frame		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
742	MAT-04414	ELEC 9.5.13	Supplying, installation, Testing and commissioning of Electric engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required		180835
			a) End suction back pull out centrifugal pump, Std fitted with BRONZE IMPELLER & gland packing ,capacity 97 Cum/hr (1620 LPM) at total head 56 mwc at operating speed 2900 rpm. Pump duty as per TAC		
			b) 30 KW / 40 HP, 3000 srpm, TEFC (IP55) horizontal foot mounted, squirrel cage induction motor, suitable for 415 volts +/- 10%, 3 Ph, 50 Hz +/-5%, a.c.supply. Class 'F' insulated and suitable for ambient temperature up to 50 deg C. Motor in frame SC 250 M frame for driving above pump.		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
			DIESEL ENGINE DRIVEN MAIN FIRE PUMPS(END SUCTION)		
743	MAT-04415	ELEC-9.5.14	Supplying , installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	626644
			a) End suction back pull out pump, Std fitted with BRONZE Impeller & gland packing, capable of delivering 171 Cum/hr(2850 LPM) at a total head of 70 M when operated at 1800 rpm and pump duty as per TAC		
			b) Liquid cooled, 85 BHP at 1800 rpm, diesel engine (Radiator cooled) 12 Volts starting system with standard accessories		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
744	MAT-04416	ELEC-9.5.15	Supplying, installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	499808
			a) End suction back pull out pump, Std fitted with BRONZE Impeller & gland packing, capable of delivering 137 Cum/hr(2280 LPM) at a total head of 70 M when operated at 2150 rpm and pump duty as per TAC		
			b) Liquid cooled, 68 BHP at 1800 rpm, Diesel engine (Radiator cooled) 12 Volts starting system with standard accessories		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
745	MAT-04417	ELEC-9.5.16	Supplying , installation, Testing and commissioning of Diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	437018
			a) End suction back pull out pump, Std fitted with BRONZE Impeller & gland packing, capable of delivering 97 Cum/hr(1620 LPM) at a total head of 56 M when operated at 2150 rpm and pump duty as per TAC		
			b) Liquid cooled, 50 BHP at 1800 rpm, Diesel engine (Radiator cooled) 12 Volts starting system with standard accessories		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
			JOCKEY PUMPS		
746	MAT-04418	ELEC-9.5.17	Supplying , installation , testing and commissioning of electric driven pressurisation / Jockey pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	61534

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 180 lpm at 56 Mtr head conforming to IS 1520		
			b) Suitable HP SQ cage induction motor TEFC type suitable for operation on 415Volts, 3 phase 50 Hz. AC with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
747	MAT-04419	ELEC-9.5.18	Supplying , installation , testing and commissioning of electric driven pressurisation / Jockey pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	90418
			a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 180 lpm at 70 Mtr head conforming to IS 1520		
			b) Suitable HP SQ cage induction motor TEFC type suitable for operation on 415Volts, 3 phase 50 Hz. AC with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
748	MAT-04420	ELEC-9.5.19	Supplying , installation , testing and commissioning of electric driven pressurisation / Jockey pump suitable for automatic operation and consisting of following : complete in all respect as required	1set	138138
			a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 180 lpm at 120 Mtr head conforming to IS 1520		
			b) Suitable HP SQ cage induction motor TEFC type suitable for operation on 415Volts, 3 phase 50 Hz. AC with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation,		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			conforming to IS-325		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
			BOOSTER PUMPS		
749	MAT-04421	ELEC-9.5.20	Supplying , installation , testing and commissioning of electric driven Terrace / Booster pump suitable for automatic operation and consisting of following : complete in all respect as required.	1 Set	70325
			a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 900 lpm at 45 Mtr head conforming to IS 1520		
			b) Suitable HP SQ cage induction motor TEFC type suitable for operation on 415Volts, 3 phase 50 Hz. AC with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
750	MAT-04422	ELEC-9.5.21	Supplying , installation , testing and commissioning of electric driven Terrace / Mono Bloc Booster pump suitable for automatic operation and consisting of following : complete in all respect as required.	1 Set	54627
			a) Horizontal type, centrifugal End Suction pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 900 lpm at 45 Mtr head conforming to IS 1520		
			b) Three Phase High Speed Centrifugal Pump. Pump with CI Impeller and Gland Packing with 9.3 KW / 12.5HP, 2 pole, TEFC, 415 V, 3ph motor		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
751	MAT-04423	ELEC-9.5.22	Supplying , installation , testing and commissioning of electric driven Terrace / Mono Bloc Booster pump suitable for automatic operation and consisting of following : complete in all respect as required.	1 Set	52116
			a) Horizontal type, centrifugal End Suction pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 750 lpm at 35 Mtr head conforming to IS 1520		
			b) Three Phase High Speed Centrifugal Pump. Pump with CI Impeller and Gland Packing with 7.5 KW / 10 HP, 2 pole, TEFC, 415 V, 3ph motor		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
752	MAT-04424	ELEC-9.5.23	Supplying , installation , testing and commissioning of electric driven Terrace / Mono Bloc Booster pump suitable for automatic operation and consisting of following : complete in all respect as required.	1 Set	47972
			a) Horizontal type, centrifugal End Suction pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 450 lpm at 35 Mtr head conforming to IS 1520		
			b) Three Phase High Speed Centrifugal Pump. Pump with CI Impeller and Gland Packing with 5 KW / 7.5 HP, 2 pole, TEFC, 415 V, 3ph motor		
			c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
			CONTROL PANELS		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
753	MAT-05602	ELEC-9.5.24	Fabrication, supply, Transportation, Installation testing & commissioning of Electrical control panel of cubical construction, floor mounted type, fabricated out of 2mm thick CRCA sheet, compartmentalised with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, interconnection with suitable size copper conductor cable/solid copper strip, having switchgears and accessories, mountings and internal wiring, earth terminals, numbering etc. complete in all respect, suitable for main fire pump, pressurisation pump & diesel pump set complete with following in coming and Outgoings, suitable for operation on 415V, 3 phase, 50Hz Ac Supply. Makes : As per list of recommended brands.	1 No	266783
			<u>INCOMING :</u>		
			250A, 50kA 4 Pole MCCB, Ics=100% Icu rating		
			Digital Voltmeter 0-500V with selector switch		
			Digital Ammeter (0-250 A) with selector switch & CTs etc.		
			LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps		
			Set of Copper Bus Bar 300A		
			<u>OUTGOING :</u>		
			(Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)		
			<u>MAIN FIRE PUMP</u>		
			125 A, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 60 HP pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation selector switch for local/remote, auto/manual/OFF operation.		
			<u>JOCKEY PUMP</u>		
			63 A, 50kA TPN MCCB, Ics=100% Icu, with suitable protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			<u>DIESEL ENGINE CONTROL</u>		
			Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Water Temp and Engine on indication. Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0- 20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine System Controller.		
754	MAT-05603	ELEC-9.5.25	Designing, Supply, Transportation, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification Makes : As per list of recommended brands.	1 No	313935
			<u>INCOMING :</u>		
			400A, 50kA 4 Pole MCCB, Ics=100% Icu rating		
			Digital Voltmeter 0-500V with selector switch		
			Ammeter (0-400 A) with selector switch & CTs etc.		
			LED type RYB phase indicating lamps, ON, OFF, trip		
			indicating lamps		
			Set of Copper Bus Bar 500A		
			<u>OUTGOING :</u>		
			(Note : All outgoing feeders for pumps should have		
			digital Ammeter with selector switches, and LED type		
			ON, OFF, trip indicating lamps)		
			<u>MAIN FIRE PUMP</u>		
			200 A, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 75 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			JOCKEY PUMP		
			100 A, 50kA TPN MCCB, Ics=100% Icu, with suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.		
			DIESEL ENGINE CONTROL		
			Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempt starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine System Controller		
755	MAT-05604	ELEC-9.5.26	Designing, Supply, Transportation, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specifications. Makes : As per list of recommended brands.	1 No	347438
			<u>INCOMING :</u>		
			630A, 50kA 4 Pole MCCB, Ics=100% Icu rating		
			Digital Voltmeter 0-500V with selector switch		
			Ammeter (0-630 A) with selector switch & CTs etc.		
			LED type RYB phase indicating lamps, ON, OFF, trip		
			indicating lamps		
			Set of Copper Bus Bar 800Amps		
			<u>OUT GOING :</u>		
			(Note : All outgoing feeders for pumps should have		
			digital Ammeter with selector switches, and LED type		
			ON, OFF, trip indicating lamps)		
			<u>MAIN FIRE PUMP</u>		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			250 A, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 100 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.		
			<u>JOCKEY PUMP</u>		
			125 A, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with over load protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.		
			<u>DIESEL ENGINE CONTROL</u>		
			Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine System Controller.		
756	MAT-05605	ELEC-9.5.27	Designing, Supply, Transportation, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification Makes : As per list of recommended brands.	1 No	406999
			<u>INCOMING :</u>		
			400A, 50kA 4 Pole MCCB, Ics=100% Icu Rating		
			Digital Voltmeter 0-500V with selector switch		
			Ammeter (0-400 A) with selector switch & CTs etc.		
			LED type RYB phase indicating lamps, ON, OFF, trip		
			indicating lamps		
			Set of Copper Bus Bar 500Amps		
			<u>OUT GOING :</u>		
			(Note : All outgoing feeders for pumps should have		
			digital Ammeter with selector switches, and LED type		
			ON, OFF, trip indicating lamps)		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			MAIN FIRE PUMPS		
			125 Amp, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 60 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets		
			JOCKEY PUMP		
			63 Amp, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets		
			DIESEL ENGINE CONTROL		
			Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indi Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine System Controller		
757	MAT-05606	ELEC-9.5.28	Designing, Supply, Transportation, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification Makes : As per list of recommended brands.	1 No	486413
			<u>INCOMING :</u>		
			630A, 50kA 4 Pole MCCB, Ics=100% Icu Rating		
			Digital Voltmeter 0-500V with selector switch		
			Ammeter (0-630 A) with selector switch & CTs etc.		
			LED type RYB phase indicating lamps, ON, OFF, trip		
			indicating lamps		
			Set of Copper Bus Bar 800Amps		
			<u>OUT GOING :</u>		
			(Note : All outgoing feeders for pumps should have		
			digital Ammeter with selector switches, and LED type		
			ON, OFF, trip indicating lamps)		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			MAIN FIRE PUMP		
			200 Amp, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 75 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets		
			JOCKEY PUMP		
			100 Amp, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets		
			DIESEL ENGINE CONTROL		
			Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine System Controller.		
758	MAT-05607	ELEC-9.5.29	Designing, Supply, Transportation, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification Makes : As per list of recommended brands.	1 No	620425
			<u>INCOMING :</u>		
			800A, 50kA 4 Pole MCCB, Ics=100% Icu Rating		
			Digital Voltmeter 0-500V with selector switch		
			Ammeter (0-800 A) with selector switch & CTs etc.		
			LED type RYB phase indicating lamps, ON, OFF, trip		
			indicating lamps		
			Set of Copper Bus Bar 1000Amps		
			<u>OUT GOING :</u>		
			(Note : All outgoing feeders for pumps should have		
			digital Ammeter with selector switches, and LED type		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			ON, OFF, trip indicating lamps)		
			Main Fire Pump		
			250 Amp, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 100 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets		
			JOCKEY PUMP		
			125 Amp, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets		
			DIESEL ENGINE CONTROL		
			Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine System Controller		
			MS PIPES		
759		ELEC-9.5.30	Providing , laying, testing & Commissioning of following classes MS pipes conforming to IS 3589 and 1239 including fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc., complete. Makes : As per list of recommended brands.		
			C-CLASS MS PIPES		
	MAT-04425	a	250 mm dia	1 Mtr	4831
	MAT-04426	b	200 mm dia	1 Mtr	4191
	MAT-04427	c	150 mm dia	1 Mtr	3197
	MAT-04428	d	100 mm dia	1 Mtr	1989
	MAT-04429	e	80 mm dia	1 Mtr	1321
	MAT-04430	f	65 mm dia	1 Mtr	995
	MAT-04431	g	50 mm dia	1 Mtr	796

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-04432	h	40 mm dia	1 Mtr	675
	MAT-04433	i	32 mm dia	1 Mtr	533
	MAT-04434	j	25 mm dia	1 Mtr	398
			B- CLASS MS PIPES		
	MAT-04435	a	250 mm dia	1 Mtr	4262
	MAT-04436	b	200 mm dia	1 Mtr	3694
	MAT-04437	c	150 mm dia	1 Mtr	2557
	MAT-04438	d	100 mm dia	1 Mtr	1705
	MAT-04439	e	80 mm dia	1 Mtr	1208
	MAT-04440	f	65 mm dia	1 Mtr	895
	MAT-04441	g	50 mm dia	1 Mtr	696
	MAT-04442	h	40 mm dia	1 Mtr	526
	MAT-04443	i	32 mm dia	1 Mtr	426
	MAT-04444	j	25 mm dia	1 Mtr	355
760		ELEC-9.5.31	Supplying and fixing single headed Internal / External hydrant valve with instantaneous Gun metal/Stainless steel couplings of 63mm dia with Cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gun Metal cap and chain as required. Makes : As per list of recommended brands.		
	MAT-04445	a	Single Headed Gun Metal	1 No	9503
	MAT-	b	Single Headed Stainless Steel	1 No	8462

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	05608				
761		ELEC-9.5.32	Supplying, fixing, testing and commissioning of butterfly valve PN 1.6, with Bronze / Gun metal seat duly ISI marked complete with Nuts, Bolts, Washers, gaskets, conforming to IS 13095 of following sizes as required. Makes : As per list of recommended brands.		
	MAT-04446	a	(a) 250 mm . dia	1 No	14971
	MAT-04447	b	(b) 200 mm . dia	1 No	6379
	MAT-04448	c	(c) 150 mm dia	1 No	5337
	MAT-04449	d	(d) 100 mm dia	1 No	4101
	MAT-04450	e	(e) 80 mm dia	1 No	3775
762		ELEC-9.5.33	Providing, installation, testing and commissioning of dual Plate non - return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc as required. Makes : As per list of recommended brands.		
	MAT-04451	a	a) 250mm dia	1 No	23432
	MAT-04452	b	(b) 200 mm dia	1 No	11977
	MAT-04453	c	(c) 150 mm dia	1 No	8592
	MAT-04454	d	(d) 100 mm dia	1 No	4556
	MAT-04455	e	(e) 80 mm dia	1 No	4426
	MAT-04456	f	(f) 50 mm dia	1 No	2343
763		ELEC-9.5.34	Manufacture, Supply and delivery of CI Wafer Lug type Butterfly Valves conforming to IS 13095/1991 (Reaffirmed 1998) excluding transportation, CED and taxes etc., complete. Operation done with worm actuator ISI marked Rate at Ex-Factory. Makes : As per list of recommended brands.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-04457	a	250 mm . dia	1 No	19918
	MAT-04458	b	200 mm . dia	1 No	14320
	MAT-04459	c	150 mm dia	1 No	9113
	MAT-04460	d	100 mm dia	1 No	6118
	MAT-04461	e	80 mm dia	1 No	4556
	MAT-04462	f	(50 mm dia	1 No	3645
764		ELEC-9.5.35	Providing, installation, testing and commissioning of gun metal valves of following sizes as required. Makes : As per list of recommended brands.		
	MAT-04463	a	50 mm dia	1 No	2083
	MAT-04464	b	40 mm dia	1 No	1692
	MAT-04465	c	32 mm dia	1 No	1529
765		ELEC-9.5.36	Supplying and fixing 63mm dia, 15 mtr long RRL hose pipe with 63mm dia Male and Female Gun metal / SS couplings duly binded with GI wire, rivets etc conforming to IS 636 (Type -A) as required. Makes : As per list of recommended brands.		
	MAT-04466	a	Gun metal	1 No	7330
	MAT-05609	b	SS couplings	1 No	5468
766		ELEC-9.5.37	Supplying and fixing 63mm dia, 15 mtr long CP hose pipe with 63mm dia Male and Female Gun metal / SS couplings duly binded with GI wire, rivets etc conforming to IS 636 (Type -A) as required. Makes : As per list of recommended brands.		
	MAT-04467	a	Gun metal	1 No	6249

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-05610	b	SS couplings	1 No	5207
767		ELEC-9.5.38	Supply, installation, testing and commissioning of stainless steel Y – Stainer fabricated out of 1.6 mm thick SS 304 with following sizes confirming to IS specifications complete with rubber gasket, GI bolts , nuts, washers etc as required. Makes : As per list of recommended brands.		
	MAT-04468	a	250mm dia	1 No	23953
	MAT-04469	b	200 mm . dia	1 No	22131
	MAT-04470	c	150 mm dia	1 No	10414
	MAT-04471	d	100 mm dia	1 No	5598
	MAT-04472	e	80 mm dia	1 No	5077
768	MAT-04473	ELEC-9.5.39	Supplying and fixing First -Aid Hose Reel with MS construction spray painted in Post office Red, Conforming to Is 884 with upto date amendments, complete with the following as required. Makes : As per list of recommended brands.	1 No	8722
			a) 36.6 Mtr Long 20mm (Nominal internal) dia water hose Thermoplastic / Textile reinforced / Rubber braided / Polypropylene Type - 2 as per IS:12585		
			b) 20mm (Nominal internal) dia gun metal ball/gate valve and nozzle.		
			c) Drum and brackets for fixing the equipments on wall.		
			d) Connections from riser with 25mm dia stop valve (gun metal) & MS pipe.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
769	MAT-04474	ELEC-9.5.40	Supplying and fixing of hose cabinet of size 750mm X 600mm x 250mm made of No 16 gauge SWG CRCA sheet with 6mm thick glazed glass door including necessary locking arrangement suitable to accommodate 2 Nos 15 mtr long Hose pipe, 1 No branch pipe, mounted on wall OR raised brick platform and duly painted with Post office red externally and white internally with synthetic enamel paint complete in all respect, for external hydrant as required. Makes : As per list of recommended brands.	1 No	3775
770		ELEC-9.5.41	Supply and fixing 63mm dia Gun metal branch pipe with 20mm (Nominal internal diameter) size Gun metal / SS nozzle conforming to IS 903, suitable for instantaneous connection to interconnect hose pipe coupling as required. Makes : As per list of recommended brands.		
	MAT-04475	a	Gun metal	1 No	2864
	MAT-05611	b	SS couplings	1 No	2083
771	MAT-04476	ELEC-9.5.42	Supply and fixing 4 way fire brigade connection of cast iron body with 4 Nos Gun metal Male instantaneous inlet couplings complete with cap and chain as required for 150mm dia MS pipe connection, conforming to IS 904 as required. Makes : As per list of recommended brands.	1 No	10414
772	MAT-04477	ELEC-9.5.43	Supply and fixing 2 way fire brigade connection of cast iron body with 2 Nos Gun metal Male instantaneous inlet couplings complete with cap and chain as required for 100mm dia MS pipe connection, conforming to IS 904 as required. Makes : As per list of recommended brands.	1 No	7811
773	MAT-04478	ELEC-9.5.44	Supply and fixing air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25mm dia Gun metal wheel valve, with required accessories, pressure gauge and painting with synthetic enamel paint of approved shade as required.	1 No	19471

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
774	MAT-04479	ELEC-9.5.45	Providing fixing, testing and commissioning of 15mm size quartzoid bulb type sprinklers of rating 68° C. pendent / side wall with required accessories. Makes : As per list of recommended brands.	1 No	557
775	MAT-04480	ELEC-9.5.46	Supply fixing, testing and commissioning of UL approved flexible dropper of 1.5 mtr length with required accessories Makes : As per list of recommended brands.	1 No	1329
776	MAT-04481	ELEC-9.5.47	Providing and fixing of Pressure Switch in the MS pipe Line including connection etc as required. Makes : As per list of recommended brands.	1 No	2847
777	MAT-04482	ELEC-9.5.48	Providing and fixing Flow Switches in 100mm dia MS pipe. Makes : As per list of recommended brands.	1 No	6072
778	MAT-04483	ELEC-9.5.49	Providing and fixing Flow Switches in 150 mm dia MS pipe. Makes : As per list of recommended brands.	1 No	8476
779	MAT-04484	ELEC-9.5.50	Supply, installation, testing and commissioning of Bourden type, stainless steel dial type pressure gauge with isolation valve and pipe having calibration of 0-16 kg/cm ² . Makes : As per list of recommended brands.	1 No	759
780	MAT-04485	ELEC-9.5.51	Supply, installation, testing and commissioning of 25mm dia Gate valve Makes : As per list of recommended brands.	1 No	1367
781	MAT-04486	ELEC-9.5.52	Supply, installation, testing and commissioning of 25mm dia Ball valve Makes : As per list of recommended brands.	1 No	755
782	MAT-04487	ELEC-9.5.53	Supply, installation, testing and commissioning of 25 / 20mm dia Air Release Valve Makes : As per list of recommended brands.	1 No	1432

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
783		ELEC-9.5.54	Supply, installation, testing & commissioning of sprinkler flexible pipe (UL Listed) of stainless steel complete with 15 NPT on reducer thread with maximum working pressure of 175 PSI test pressure of 875 PSI (Burst) with branch line (Inlet) 25mm NPT male thread to sprinkler head (Outlet) 15mm NPT female thread with reducer, nipple, 2 side brackets, center bracket, stockbar of following sizes complete as required. Makes : As per list of recommended brands.		
	MAT-04488	a	750mm to 800 mm	1 No	1139
	MAT-04489	b	1000 mm to 1200 mm	1 No	1329
	MAT-04490	c	1500 mm	1 No	1582
784		ELEC-9.5.55	Providing, fixing, testing & commissioning of installation control valve of cast iron body,brass/bronze working parts comprising of water motor alarm, bronze seat clapper, clapper arm and hydraulically driven mechanical gong bell to sound continuous alarm when the wet riser/sprinkler system activates, pressure gauges, emergency releases, strainer, pressure switch, cock valve complete with drain valve and bypass, test control box, ball valves, MS pipe of required size, flanges, orifice plate, gasket etc of following sizes as required : Makes : As per list of recommended brands.		
	MAT-05612	a	80mm dia	1 No	46865
	MAT-05613	b	100mm dia	1 No	49468
	MAT-04491	c	150mm dia	1 No	52072
785		ELEC-9.5.56	Supplying, installing, testing and commissioning of CI body Foot Valve with brass strainer with necessary flanges, nuts and bolts etc., complete on to the suction line. Makes : As per list of recommended brands.		
	MAT-04492	a	a) 200mm nominal dia	1 Ea	29030
	MAT-04493	b	b) 150mm nominal dia	1 Ea	15622

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-04494	c	c) 100mm nominal dia	1 Ea	8722
	MAT-04495	d	d) 80mm nominal dia	1 Ea	5988
786		ELEC-9.5.57	Supply and laying of 300mm dia NP2 RCC Hume pipe with Collars for Road crossings -As per Civil SoR		
789		ELEC-9.5.58	Supplying and wrapping the anticorrosive material for buried pipes with coating of Primer and wrapping with 4 mm thick polymer corrosion resistant tape as per IS : 10221 with 15 mm overlap as per specifications. Makes : As per list of recommended brands.		
	MAT-04496	a	a) 200mm nominal dia	1 Mtr	521
	MAT-04497	b	b) 150mm nominal dia	1 Mtr	391
	MAT-04498	c	c) 100mm nominal dia	1 Mtr	352
	MAT-04499	d	d) 80mm nominal dia	1 Mtr	300
790	MAT-04500	ELEC-9.5.59	Supply, fabricating , installing structural steel supports for fixing all sizes of MS pipes from ceiling / wall with MS Channels, Angles, Flats, Rods, as required at site with anchor fasteners, Clamps, threaded rods, nuts, bolts,washers etc complete with painting.	1 Kg	82
791	MAT-08784	ELEC-9.5.60	Fabrication ,transportation and supply of fully outdoor type wall mounted/floor mounted automatic control panel board with IP-66 protection for 3 phase 7.5 H.P. Motor of Booster Pump set of size 600x 600x 250mm made of 18 SWG CRCA sheet steel enclosure, 14 SWG mounting plate for cable entry fabricated , painted with two coats of Red oxide primer and two coats of Grey paint, lock and key arrangements two side louvres with weld mesh inside and mounted on suitable angle frame work of 450mm height on a PCC pedestal over the terrace consisting of the following equipment/ components with all internal wiring for power and control circuits and control wiring from sensors like pressure switches etc., using copper FRLS cables of suitable	1 No	24817

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			size and capacity and cable clamp etc complete with DOL Starter of including cost of all materials and all labour charges, transportation etc., complete for finished item of work. (Panel shall be fabricated from reputed and branded manufacturers approved by dept and having CPRI approval with CPRI test certificates). Makes : As per list of recommended brands.		
			<p>1) Supply & Fixing of DOL Starter suitable for 7.5 HP Pump Motor - 1 No</p> <p>2) Supply and Fixing of (0-500) V range Volt meter on existing panel, making connection by PVC insulated copper conductor with PVC sleeves/channel etc., as required. -1 No</p> <p>3) Supply and Fixing of CT operated direct reading type Ammeter, below 500A, on existing panel, making connection by PVC insulated copper conductor with PVC sleeves/channel etc. as required - 1 No</p> <p>4) Supply and Fixing of selector switch for Voltmeter & Ammeter (4 position) including making connection etc. as required. - 2 No</p> <p>5) Supply and Fixing of 240/220 V, LED (22.5 mm dia) Pilot indication lamps Red, Yellow & Blue Colour with integral circuit, terminal block, including connection etc. as required - 3 No</p> <p>6) Supply and Fixing of Single Phase Preventor of suitable range - 1No.</p> <p>7) Supply and fixing of ISI Mark suitable capacitor</p> <p>8) Supply and Fixing of MPCB (Motor Protection Circuit Breaker) suitable for 7.5 HP Motor, Icu=50 KA with adjustable thermal and magnetic release Panel Mounted</p> <p>9) Supply and Fixing of Non-Luminous type, ON/OFF/TRIP push button actuators and integral contact block of dia. 22.5 mm including making connection etc. as required.</p> <p>10) Supply and Fixing of AC operated heavy duty 230 /440 Volt power contactor conforming to IS:13947-4-1/IEC:947-4-1 having provision of mechanical interlocking, Din rail mounting type including making connections, testing etc. as required.</p> <p>- 3 pole, 35-40A AC3 Rating, Contactor - 1 No</p>		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			<p>11) Supply and Fixing of 24 V DC ,Aux Contactor with 2 NO+2NC Contacts with suitable NO+NC ADD on Block</p> <p>12) Supply and Fixing of thermal over load relay with built in single phase protection and having at least 1NO & 1NC contacts,manual /auto reset facility including making connection testing etc. as required - 1 No</p> <p>13) Supply and Fixing of Current Transformer, upto 150 / 5 Ratio , 10 VA , class 1 accuracy with all necessary support inexisting panel including connection etc. as required - 3 No</p>		
			Control & Power wiring with suitable size of approved make FRLS PVC flexible copper wires and from pressure sensors etc., , Earth Bus Bar, Door Loop earhings, Ferrules, danger plate, door locks, mounting arrangements with 40x40x6mm MS angle iron frame, PCC and masonry work, painting for MS angle frame with red oxide and enamel paint etc., and all other accessories including all labour charges etc with connections for finished item of work including transportation charges		
792	MAT-08785	ELEC-9.5.61	Providing and fixing of gun metal fire Brigade Suction Hose coupling (Draw-out Connection) with nut for female coupling as per IS:902- 1974 complete with 100 mm dia. G.I. Suction pipe and 100 mm dia. 1No. C.I. Foot valve flanged (to be connected to static water tank). Makes : As per list of recommended brands.		7854
793	MAT-08786	ELEC-9.5.62	Providing, installation, testing & commissioning of water curtain nozzle 15mm dia nickel chrome plated brass, BSPT, K-factor as per design consideration complete as required. Makes : As per list of recommended brands.		556
794	MAT-08787	ELEC-9.5.63	Supplying and fixing orifice plate made out of 6 mm thick stainless steel (Grade 304) with orifice of required size to be fitted between flange& landing valve of external and internal hydrants to reduce pressure at the outlet to the level of 3.5 kg/cm ² complete as required. Makes : As per list of recommended brands.		1086

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
795		ELEC-9.5.64	Supply, Installation, testing and commissioning of stainless steel puddle flange fabricated out of 1.6mm thick SS 304 confirming to IS specifications including nuts, bolts and rubber insertions etc. Makes : As per list of recommended brands.		
	MAT-08788	a	150 mm dia	1 No	7315
	MAT-08789	b	100mm dia	1 No	6380
	MAT-08790	c	80 mm dia	1 No	4950
	MAT-08791	d	65 mm dia	1 No	3300
	MAT-08792	e	50 mm dia	1 No	3080
796	MAT-08793	ELEC-9.5.65	Supply, Erection, Testing and commissioning of Sluice valves as per IS:14846 (PN 10 Rating, for suction side of the pumps) and rising spindle type with flanges, bolts, nuts, washers, gaskets etc. The valve shall be fitted with Supervisory switch for monitoring. Makes : As per list of recommended brands.		
			100mm dia		12100
797	MAT-08794	ELEC-9.5.66	Supplying, installation, testing & commissioning of deluge valve (to be used for water curtains) UL listed with wet pilot basic trim assembly for DVA with test and alarm, drip and drain valve with water motor gong complete as required. Makes : As per list of recommended brands.		
			150mm dia		102198
798	MAT-08795	ELEC-9.5.67	Providing, installation, testing & commissioning of electric release trim assembly for deluge wall with two way solenoid valve, weather proof operation on 24 volts DC supply complete as required. Makes : As per list of recommended brands.		6204
799	MAT-08796	ELEC-9.5.68	Providing, installation, testing & commissioning of adjustable rosette plate for 15mm dia in white finish as per specifications complete as required.		171

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
800		ELEC-9.5.69	Supply & Installation, Testing and commissioning of trolley mounted, electrically operated triplex plunger pumps with 2-H.P, 1-Phase 1450 rpm, 1-phase motor with high pressure triplex pump of 5-0 kg/cmv with nylon hydraulic hose pipe of 3/4" dia, 5mt height for suction and 3/8" dia 30mt length for delivery with all required nozzles has valves, high pressure gun, fittings etc with come of 3-core, 2.5 sqmm flexible copper cable with 3-pin 16A top and all required accessories and labour charges for erection, testing including transportation etc. complete, Make of motor: crompton, kiroken, texmo, suguna with ISI mark, Pump: Green tech, Kisan, Ultrajet, Pressurejet, Ambica tools, seaara or any ISI	Each	41625
801		ELEC-9.5.70	Supply and installation, testing and commissioning of trolley mounted 6.50HP high pressure petrol driven triplec pump with hydraulic nylon pipes 3/4" dia, 5mt length for suction 3/8" dia 30mt length for delivery, nozzles, valves high pressure gun, filtong etc complete with all required accessories and labour charges for erection testing and transportation etc complete.	Each	35000
802		ELEC-9.5.71	Supply & Installation, Testing and commissioning of trolley mounted, electrically operated triplex plunger pumps with 5-H.P, 1-Phase 1450 rpm, 1-phase motor with high pressure triplex pump of 5-0 kg/cmv with nylon hydraulic hose pipe of 3/4" dia, 5mt height for suction and 3/8" dia 30mt length for delivery with all required nozzles has valves, high pressure gun, fittings etc with come of 3-core, 2.5 sqmm flexible copper cable with 3-pin 16A top and all required accessories and labour charges for erection, testing including transportation etc. complete, Make of motor: crompton, kiroken, texmo, suguna with ISI	Each	46725
			SECTION 10		
		10.1	GENERATORS SPECIFICATION		
803		ELEC-10.1.1	Supply Installation Testing And commissioning of DG Set complete with 1500 RPM Diesel Engine of suitable BHP & AC Brush less SPDP Alternator mounted on a common base Frame & coupled through a flexible coupling or close coupled. Alternator: It shall be self regulated, self excited and confirms to IS: 13364/1992 or latest version with regulation of +5% from No load to full		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			<p>load, IP23, with standard Alternator Protection(Over voltage, over speed & under voltage).</p> <p>DieselEngine: Itshall have residential silencer, up to 10 M exhaust piping , electronic / Mechanical governor, Manual & electric Start, Batteries, Fuel tank & piping, control panel (16 G) with SPN(For 5 KVA)/TPN MCCB of required rating (25/36/50 KA) with PLC based Engine controller supplied by OEM, Ammeter, Voltmeter, Frequency Meter or Multi function meter, Energy Meter & Hour Meter, Engine instruments panel,AVM and Automatic Voltage Regulator. The diesel engine shall be capable of providing 10% over load for 1 Hr for every 11 Hrs of continuous running at full load.The DG set shall be supplied with initial filling of fuel,lube oil, coolant oil as per OEM specifications and shall be tested at site.</p> <p>Accoustic Enclosure: Weatherproof, powder coated Accoustic enclosure for DG set for sound attenuation fabricated from 1.6 mm CRCA sheet steel (structure) with side wall fabricated from 1.6 mm CRCA sheet and filled with foam as per CPCB norms latest amendments & IS 8183 .The doors are fabricated from 1.6 mm CRCA sheet packed with accoustic material, floor of MS chequered plate 5.0 mmthick, All doors/ opening are sealed with neoprene/ EPDN gaskets.</p> <p>The DG Set shall be maintained for two years after commissioning by the supplier including regular servicing, cost of consumables etc complete as specified by the OEM along with warranty for two years.</p>		
			<p>The enclosure has built in fuel tank, residential silencer (isolated from main DG chamber) with protection and tripping of DG set against temperature of more than 50 °C. All controls for operation of DG set are from outside the enclosure with DG control panel having processor based genset monitoring and control system MCCB/ACB Ammeter, voltmeter, Pf meter, frequency meter, KWH meter, Ind. Lamps etc. mounted inside enclosure , visible and accessible from outside. The enclosure should be suitable for following capacity DG sets and alternator.Noise level is less than 75 db (A) at a distance of 1 Mtrs as per CPCB-II norms,complete in all respect of following capacity :</p>		
			Radiator Cooled and Turbocharged		
			5 kVA at 0.8 pf 230V 50Hz 1-Ø	1 No	150000
			10 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	235000
	MAT-04501	a	15 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	340000
			20 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	357000
			25 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	399000
	MAT-	b	30 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	440000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	04502				
	MAT-04503	c	40 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	548000
	MAT-04504	d	62.5kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	630000
	MAT-04505	e	125 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	825000
		(a to e)	Makes : As per list of recommended brands.		
	MAT-04506	f	160 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	1080000
		g	200 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	1296000
	MAT-04508	h	250 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	1550000
	MAT-04509	i	320 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	2250000
	MAT-04510	j	380 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	2870000
		(f to j)	Makes : As per list of recommended brands.		
	MAT-04511	k	500kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	3150000
	MAT-04512	l	625 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	3800000
	MAT-04513	m	750 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	4730000
	MAT-04514	n	1000 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	5700000
	MAT-04515	o	1250 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	7700000
	MAT-04516	p	1500 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	8740000
		(j to p)	Makes : As per list of recommended brands.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
804		ELEC-10.1.2	Supply Installation Testing and Commissioning of AUTO MAINS FAILURE (AMF) Panel with IP 52 protection, fabricated from CRCA sheet steel 2mmThick , Powder coated finish , Engine START & STOP commands,control RELAYS, selector switches for Ammeter & Voltmeter, Ammeter & Voltmeter ,4pole MCCBs for EB Supply and DG Supply of required rating and breaking capacity,Automatic battery charger(External charger for DG) Control & Power Contactors, Timers, Electronic Hooter ,Visual & Alarm indication for faults, UPS, operator interface panel complete in all respect suitable for following capacity DG sets:		
			PLC based AMF Panel		
	MAT-04517	a	25 to 40 KVA	1 No	75000
	MAT-04518	b	50 to 63.5 KVA	1 No	110000
	MAT-04519	c	80 to 160 KVA	1 No	155000
	MAT-04520	d	180 to 250 KVA	1 No	210000
	MAT-04521	e	320 to 500 KVA	1 No	260000
			Electro-Mechanical Relay Based AMF Panel		
	MAT-04522	f	25 to 63.5 KVA	1 No	55000
	MAT-04523	g	80 to 180 KVA	1 No	92500
	MAT-04524	h	200 to 500 KVA	1 No	135000
805	MAT-04525	ELEC-10.1.3	Supply and fixing of Thermal Insulation With Asbestos Rope for Exhaust pipe	Mtr	251
806	MAT-04526	ELEC-10.1.4	Supply and fixing of Thermal Insulation With Rock/Glass Wool wwith Alluminium cladding (Density -96 Kg/m3 thickness -50mm) for Exhaust pipe	Mtr	1247
			SECTION 11		
		11.1	INVERTERS and ONLINE UPS SYSTEMS		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
807		ELEC-11.1.1	Supply and installation of Inverter(home UPS system) pure sine wave out put, single phase input / Single phase output. Makes : As per list of recommended brands.		
	MAT-04527	a	800 VA, 12 V DC	1 No	
	MAT-04528	b	1400 VA, 24 V DC	1No	13200
	MAT-04529	c	2000 VA, 36 V DC	1No	18700
808		ELEC-11.1.2	Supply installation Testing and commissioning of KVA on line UPS system confirms to IS 16242(Part-I):2014 and IEC 60240-1 : 2008 with IGBT technology pure sine wave out put, double conversion with auto and manual static by pass switch single phase input / Single phase output. Makes : As per list of recommended brands.		
	MAT-04530	a	2.0 KVA , 72/96VDC	1 No	31126
	MAT-04531	b	3.0 KVA , 72/96 VDC	1 No	42798
	MAT-04532	c	3.0 KVA , 72/96 VDC with Isolation Transformer	1 No	49023
	MAT-04533	d	6.0 KVA , 192/240 VDC with Isolation Transformer	1 No	84299
	MAT-04534	e	7.0 KVA , 192/240 VDC with Isolation Transformer	1 No	101807
	MAT-04535	f	10.0 KVA , 192-240 VDC with Isolation Transformer	1 No	122557
809		ELEC-11.1.3	Supply installation Testing and commissioning of KVA on line UPS system as per IEC 62040-1(Safety) ,IEC 62040-3(Performance) for critical IT solutions ,fully digital IGBT Converter and Inverter ,with Internal /External isolation transformer from DC to AC, PWM, pure sine wave out put, double conversion ,output pf 0.9, with parallelling facility , standard communicaton features/options auto and manual static by pass switch three phase input / Three phase output. Accoustic level shall be less than 58dB at 1 mtr distance. Makes : As per list of recommended brands.		
	MAT-04536	a	10.0 KVA 312/360 V DC	1 No	213989
	MAT-	b	15.0 KVA 312/360 V DC	1 No	233442

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	04537				
	MAT-04538	c	20.0 KVA 312/360 V DC	1 No	272349
	MAT-04539	d	30.0 KVA 312/360/384/480 V DC	1 No	356648
	MAT-04540	e	40.0 KVA 312/360/384/480 V DC	1 No	453915
810		ELEC-11.1.4	Supply installation Testing and commissioning of KVA on line UPS system as per IEC 62040-1(Safety) ,IEC 62040-3(Performance) for critical IT solutions ,fully digital IGBT Converter and Inverter ,with Internal /External isolation transformer from DC to AC, PWM, pure sine wave output, double conversion ,output pf 0.9, with paralleling facility , standard communication features/options auto and manual static by pass switch three phase input / Three phase output. Accoustic level shall be less than 58dB at 1 mtr distance. Makes : As per list of recommended brands.		
	MAT-04541	a	60 KVA	1 No	842985
	MAT-04542	b	80.0 KVA	1 No	1102365
	MAT-04543	c	100.0 KVA	1 No	1277447
	MAT-04544	d	120.0 KVA	1 No	1449934
	MAT-04545	e	160.0 KVA	1 No	1618531
	MAT-04546	f	200.0 KVA	1 No	1652251
811	MAT-04547	ELEC-11.1.5	Supply and providing of UPS cum battery rack up to 4 batteries	1 No	1650
812	MAT-04548	ELEC-11.1.6	Supply and providing of battery rack for 5 to 10 batteries (42 AH)	1 No	3300
813	MAT-04549	ELEC-11.1.7	Supply and providing of battery rack upto 11 to 20 batteries (42 AH)	1 No	5500
814	MAT-04550	ELEC-11.1.8	Supply and providing of battery rack upto 20 to 30 batteries (65 & 100 AH)	1 No	9900

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
815	MAT-04551	ELEC-11.1.9	Supply and fixing of 12V 26 AH SMF battery with 3 years Warranty, including wire leads ,connections etc complete., Makes : As per list of recommended brands.	1 No	3520
816	MAT-04552	ELEC-11.1.10	Supply and fixing of 12V 42 AH SMF battery with 3 years Warranty including wire leads ,connections etc complete.. Makes : As per list of recommended brands.	1 No	6270
817	MAT-04553	ELEC-11.1.11	Supply and fixing of 12V 65 AH SMF battery with 3 years warranty including wire leads ,connections etc complete., Makes : As per list of recommended brands.	1 No	7920
818	MAT-04554	ELEC-11.1.12	Supply and fixing of 12V 100 AH SMF battery with 3 years warranty including wire leads,connections etc complete., Makes : As per list of recommended brands.	1 No	11484
819	MAT-04555	ELEC-11.1.13	Supply and fixing of 12V 120/130 AH SMF battery with 3 years warranty including wire leads,connections etc complete., . Makes : As per list of recommended brands.	1 No	12276
820	MAT-04556	ELEC-11.1.14	Supply and fixing of 12V, 150 AH SMF battery with 3 years warranty including wire leads,connections etc complete., Makes : As per list of recommended brands.	1 No	17160
821	MAT-04557	ELEC-11.1.15	Supply and fixing of 12V, 200 AH SMF battery with 3 years warranty including wire leads ,connections etc complete., Makes : As per list of recommended brands.	1 No	23760
822		ELEC-11.1.16	Supply and fixing of 12V, 120 AH MF battery including wire leads	1 No	deleted
823	MAT-04559	ELEC-11.1.17	Supply and fixing of 12V, 150 AH MF battery including wire leads Makes : As per list of recommended brands.	1 No	13200
			SERVO CONTROLLED VOLTAGE STABILISERS		
824		ELEC-11.2.1	Supply, Installation, Testing & Commissioning of Micro controller based confirming to IS:9815 IP 20 Servo Controlled 3 phase voltage stabilizer		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			with Input Voltage Range: 340-480 V, Output Voltage : 415V \pm 1% (230V Phase) Rated supply frequency : 47 - 53 Hz Ambient Temperature : 45° C Continuous Duty cycle with low voltage/High Voltage/Over load/Short Circuit/sinlge phase prevention protections,3 Nos sensing Trasnformers,Correction rate :30 V/sec, Input on, Input Low, Input High, Out put On, Output Cutoff, Auto / Manual Selector switch, Increase / Decrease Selector switch, Volts adj. Potentiometer, Voltmeter to read input and Output Voltage with Selector switch, Ammeter to read the Output current 3 phase SCVS, Input MCCB, Bypass, Output Contactor,Type Air Cooled etc., complete with all labour charges and with connections.		
		a	10 KVA	1 No	47700
		b	15 KVA	1 No	51700
		C	20 KVA	1 No	60700
		D	30 KVA	1 No	84400
		E	40 KVA	1 No	81000
		F	50 KVA	1 No	104950
		G	60 KVA	1 No	122600
		H	75/80 KVA	1 No	156900
		i	100 KVA	1 No	191600
			SECTION – 12		
		12.1	TEMPORARY ILLUMINATION		
825	HIR-00241	ELEC-12.1.1	Hire charges for Temporary illumination, consisting of 20W LED tube light complete with required switchgears with continuous earth wire duly erected and dismantled with required scaffolding	1 No	41

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			including cost and conveyance of all materials and labour charges etc., complete for one day.		
826	HIR-00242	ELEC-12.1.2	Hire charges for Temporary illumination, consisting of flood light fitting 1000/500W complete halogen fitting with lamp, holders, mains and required switchgears with continuous earth wire erected and dismantled with required scaffolding for one day.	1 No	337
827	HIR-00243	ELEC-12.1.3	Hire charges for Temporary illumination, consisting of 400W Metalhalide flood light fitting with lamp,holders,mains and required switchgears with continuous earth wire erected and dismantled with requird scaffolding for one day.	1 No	396
828	HIR-00244	ELEC-12.1.4	Hire charges for Temporary illumination, consisting of 400W Metal Halide flood light fitting with Coloured lamp (Blue / Pink / Yellow / Red etc.,)holders,mains and required switchgears with continuous earth wire erected and dismantled with required scaffolding for one day.	1 No	434
829	HIR-00245	ELEC-12.1.5	Hire charges for Temporary illumination, consisting of 54 W LED RGB Parcan light fitting non integral, weather proof die cast alluminium housing with IP66 protection with control gear box, conrol gear with required cables, holder, mains duly erected with required scaffolding and dismantled on exising poles including cost and conveyance of all materials and labour charges etc., complete for one day.	1 No	419
830	HIR-00246	ELEC-12.1.6	Hire charges for providing temporary illumination consisting of flood light fitting 150/200 W complete LED fitting with lamp, complete required switchgear erected and dismantled with using scaffolding for one day.	1 No	483
831	HIR-00247	ELEC-12.1.7	Hire charges for temporary illumination consisting of strip lights 8mm LED lights of various colors (Navar Patta) complete with holders, required wire leads erected and dismantled including required scaffolding and T&P including cost and conveyance of all materials and all labour charges etc., complete	1000 Nos	1513

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			for one day.		
832	HIR-00248	ELEC-12.1.8	Hire charges for temporary illumination consisting of white color series lights with miniature lamps of 8mm LED lights with required wire leads erected and dismantled including required scaffolding and T&P including cost and conveyance of all materials and all labour charges etc., complete for one day.	1000 Nos	1040
833	HIR-00249	ELEC-12.1.9	Hire charges for temporary illumination consisting of LED RGB pixel series strip lights 8mm LED lights of various colors (Navar Patta) complete with holders, required wire leads erected and dismantled including required scaffolding and T&P including cost and conveyance of all materials and all labour charges etc., complete for one day.	1000 Nos	1288
834	HIR-00250	ELEC-12.1.10	Hire charges for temporary illumination consisting LED,RGB pixel series lights with miniature lamps of 8mm LED lights with required wire leads erected and dismantled including required scaffolding and T&P including cost and conveyance of all materials and all labour charges etc., complete for one day.	1000 Nos	826
835	HIR-00251	ELEC-12.1.11	Hire Charges for National Flag of size 8"x4"Comprising LED's with required wire leads and switch gear etc., complete for one day.	1 No	5775
836	HIR-00252	ELEC-12.1.12	Hire charges for supply and maintaining of oscillating type pedestal air circulators 600/900 mm connected with necessary mains, required switchgears with continuous earthing maintaining the same during the function and including dismantling for one day.	1 No	185
837	HIR-00253	ELEC-12.1.13	Hire charges for supply and maintaining of oscillating type pedestal fan 16" (400 mm) or ceiling fan connected with necessary mains, required switchgears with continuous earthing maintaining the same during the function and including dismantling for one day.	1 No	170

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
838	HIR-00254	ELEC-12.1.14	Hire charges for Providing 1.1KW , 24500 m3/Hr Air cooler and required materials with necessary mains switch gear with continues earth lead during function duly removing including cost and conveyance of all materials and labour charges etc., complete for one day.	1 No	1432
839	HIR-00255	ELEC-12.1.15	Hire charges for supply and maintaining of heavy duty exhaust fan 18" or 24" connected with necessary mains, required switchgears with continuous earthing maintaining the same during the function and including dismantling for one day.	1 No	170
840	HIR-00256	ELEC-12.1.16	Hire charges for supply and maintaining of plug points with 16A/6A 5 Pin socket and swich with necessary mains, required switchgears and continuous earth connection for one day.	1 No	71
841	HIR-00257	ELEC-12.1.17	Hire charges for supply and maintaining 280 litres capacity refrigerator complete with M.S. stand if necessary connected with mains, switchgear and continuous earthing maintaining the same during the function and including dismantling for one day.	1 No	578
842	HIR-00258	ELEC-12.1.18	Hire charges for supply and maintaining 120/150 liter capacity water cooler with water filter (candle type or UV tube) with M.S. stand complete with minor plumbing work if necessary connected with mains, required switchgears and continuous earthing maintaining the same during the function and including dismantling for one day.	1 No	1271
843	HIR-00259	ELEC-12.1.19	Hire charges for supply and maintaining 20"/24" colour television with multi channel tuner, connected with necessary mains, required switchgears with continuous earthing maintaining the same during the function and including dismantling for one day.	1 No	416
844	HIR-00260	ELEC-12.1.20	Providing and maintaining temporary LCD/LED colour T.V. (32"to 42" size) and positioning at site with required cabling as per direction of authority, duly connecting and testing for one day.	1 No	866

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
845	HIR-00261	ELEC-12.1.21	Hire charges for supply and maintaining 6V/10V with 20/40 Watt fluorescent emergency lamp connected with necessary mains, required switchgears and continuous earthing maintaining the same during the function and including dismantling for one day.	1 No	116
846	HIR-00262	ELEC-12.1.22	Hire charges for supply and maintaining digital projector with spring loaded white screen connected with necessary mains, required switchgears and maintaining the same during the function including dismantling for one day.	1 No	5891
847	HIR-00263	ELEC-12.1.23	Hire charges for providing 1.5/2.0 Ton capacity split type air conditioning unit complete with temporary stand and fabrication work and required material to achieve cooling temperature connected along with necessary mains, required switchgears and continuous earthing maintaining the same during the function and including dismantling for one day.	1 No	5072
848	HIR-00264	ELEC-12.1.24	Hire charges for providing 3.5 Ton capacity tower type air conditioning unit complete with temporary stand and fabrication work and required material to achieve cooling temperature connected along with necessary mains, required switchgears and continuous earthing maintaining the same during the function and including dismantling for one day.	1 No	5796
849	HIR-00265	ELEC-12.1.25	Hire charges for providing 4.5 Ton capacity tower type air conditioning unit complete with temporary stand and fabrication work and required material to achieve cooling temperature connected along with necessary mains, required switchgears and continuous earthing, maintaining the same during the function and including dismantling for one day.	1 No	6641
850	HIR-00266	ELEC-12.1.26	Hire charges for providing 6.5Ton/7.5Ton capacity tower type air conditioning unit complete with temporary stand and fabrication work and required material to achieve cooling temperature	1 No	7849

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			connected along with necessary mains,required switchgears and continuous earthing, maintaining the same during the function and including dismantling for one day.		
851	HIR-00267	ELEC-12.1.27	Hire charges for providing, maintaining and operating temporary public address system on hire consisting 02 Nos. solid state heavy wattage amplifier 250 watts (one for working and another for stand by emergency) working on AC / generator and 24 volt car battery supply, 06 Nos. of matching of 100 volt line (200 watts) box type speakers/sound column, 02 Nos super sensitive microphone with suitable size of microphone holding stand. The system shall be in a fully automatic change over operation in case of failure of supply for one day.	1 No	8663
852	HIR-00268	ELEC-12.1.28	Hire charges for providing and maintaining temporary additional box type speaker of 100 Volt line (100 watts) for one day.	1 No	404
853	HIR-00269	ELEC-12.1.29	Hire charges for providing and maintaining temporary cordless (Hand type or lape type) super sensitive HUF microphone (1 no stand by) for one day.	1 No	2807
854	HIR-00270	ELEC-12.1.30	Providing temporary line matching transformer (40-XT) for speakers having distance more than 60 Mtrs from Amplifiers and maintaining the same for one day.	1 No	231
855	HIR-00271	ELEC-12.1.31	Hire charges for providing, maintaining and operating fingertip switcher of 8 ways to operate the public address system between dias and participants in the hall with necessary cabling, wiring etc for one day.	1 No	2888
856	HIR-00272	ELEC-12.1.32	Hire charges providing and maintaining all in one desktop PC with following configuration Intel TM second generation core i3 G630,2GB DDR3 RAM, 1TB HARD DISK, DVDR W optical drive 20" LED screen, web camera, wifi, bluetooth, keyboard and mouse, media card reader etc for one day.	1 No	1155

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
857	HIR-00273	ELEC-12.1.33	Hire charges providing and maintaining Laser Printer, resolution (in dpi) mono 600, paper size A4, print speed in PPM (A4 size) 25, Port: 1 USB, memory (in MB): NA network card 10/100:YES, Duplexing: YES etc for one day.	1 No	347
858	HIR-00274	ELEC-12.1.34	Hire charges for providing and maintaining 1 KVA on line UPS pure sine wave suitable for 30 minutes battery backup to provided computer with necessary interconnecting cabling, wiring etc for one day.	1 No	1906
859	HIR-00275	ELEC-12.1.35	Hire cahres for providing and maintaining temporary 1400 VA to 1600 VA digital pure sine wave Invertor based on IGBT technology suitable for 120 minutes battery backup to electrical installation with necessary interconnecting cabling, wiring etc for one day.	1 No	1155
860	HIR-00276	ELEC-12.1.36	Hire charges for supply and fixing distribution main board consisiting of 400A/250A 4pole MCCB with bus bar arrangement 12 Nos 63A fuse units as out going including conveyance of all materials and all labour charges etc., complete for one day.	1 No	1555
861	HIR-00277	ELEC-12.1.37	Hire charges for Supply & Fixing of Distribution board of load main board consisting of 400A MCCB 4 pole with Busbar arrangement and 12 Nos 63A fuse units as out going including conveyance of all materials and all labour charges etc., complete for one day.	1 No	1587
862	HIR-00278	ELEC-12.1.38	Hire charges for Supply & Fixing of Distribution board of load main board consisting of 250A MCCB 4 pole with Busbar arrangement and 12 Nos 63A fuse units as out going including conveyance of all materials and all labour charges etc., complete for one day.	1 No	1523
863	HIR-00279	ELEC-12.1.39	Hire charges for supply and maintaining towards supply and fixing of 200A 4 pole Changeover / TPN switches including erection and dismantling and cost and conveyance of all materials and labour charges complete for one day.	1 No	353
864	HIR-00280	ELEC-12.1.40	Hire charges for supply and fixing distribution main board consisiting of 400A/250A 4pole change	1 No	1504

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			over switch with bus bar arrangement 12 Nos 63A fuse units as out going including conveyance of all materials and all labour charges etc., complete for one day.		
865	HIR-00281	ELEC-12.1.41	Hire charges for supply and fixing distribution main board consisting of 250A 4pole change over switch with bus bar arrangement 12 Nos 63A fuse units as out going including conveyance of all materials and all labour charges etc., complete for one day.	1 No	1452
866	HIR-00282	ELEC-12.1.42	Hire charges for Supply and maintaining towards supply and fixing of 4 way TPN DB with 1 No 125 TP MCCB and 12Nos 6-32A 10kA SP MCBs including erection and dismantling and cost and conveyance of all materials and labour charges complete for one day.	1 No	1340
867	HIR-00283	ELEC-12.1.43	Hire charges for Supply and maintaining towards supply and fixing of 6 way TPN DB with IP-43 Protection with 1 No 125 FP MCCB and 18Nos 6-32A 10kA SP MCBs including erection and dismantling and cost and conveyance of all materials and labour charges complete for one day.	1 No	1387
868	HIR-00284	ELEC-12.1.44	Hire charges for providing industrial type panel board consisting of bus bar chamber with 200/250 amps incoming TP/MCCB as incomers switch, 12 nos 63 amps fuse unit, earth wire erected and dismantled all accessories etc., complete for one day.	1 No	536
869	HIR-00285	ELEC-12.1.45	Hire charges for supply and installing and maintaining towards supply and run of 1 of 6/10 Sq.mm WPTC / 2 of WPSC / VIR cable with necessary terminations etc. complete for one day.	1 Mtr	6
870	HIR-00286	ELEC-12.1.46	Hire charges for supply and installing and maintaining towards supply and run of 16 Sq.mm to 35 Sqmm x 3 1/2 core cable / 4 of single core 16 Sqmm to 35 Sqmm cable with necessary terminations etc. complete for one day.	1 Mtr	29
871	HIR-00287	ELEC-12.1.47	Hire charges for supply and installing and maintaining towards supply and run of 50Sqmm to 95 Sq.mm x 3 1/2 core cable / 4 of single core 50Sqmm to 95Sqmm cable with necessary terminations etc. complete for one day.	1 Mtr	32

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
872	HIR-00288	ELEC-12.1.48	Hire charges for supply and installing and maintaining towards supply and run of 50 Sqmm x 3 1/2 core cable / 4 of single core 50 Sqmm cable with necessary terminations etc. complete for one day.	1 Mtr	30
873	HIR-00289	ELEC-12.1.49	Hire charges for supply and installing and maintaining towards supply and run of 95 Sq.mm x 3 1/2 core cable / 4 of single core 95Sqmm cable with necessary terminations etc. complete for one day.	1 Mtr	33
874	HIR-00290	ELEC-12.1.50	Hire charges for supply and installing and maintaining towards supply and run of 120 Sq.mm x 3 1/2 core cable / 4 of single core 120 Sq.mm cable with necessary terminations etc. complete for one day.	1 Mtr	34
875	HIR-00291	ELEC-12.1.51	Hire charges for supply and installing and maintaining towards supply and run of 185 Sq.mm x 3 1/2 core cable / 4 of single core 185 Sq.mm cable with necessary terminations etc. complete for one day.	1 Mtr	37
876	HIR-00292	ELEC-12.1.52	Hire chages for Supply and erection of MS Single pole structure of 20' (6.00 Mtrs.) with necessary cross arms and hardware materials for fixing halogen / Metal halide fittings etc., and dismantling and cost and conveyance of all materials and all labour charges complete for one day.	1 No	1814
877	HIR-00293	ELEC-12.1.53	Hire charges for Supply and erection of 4 pole structure of 4 of 25' (7.50 Mtrs.) GI pipe of 63/80mm dia with necessary cross arms and hardware materials for fixing halogen / Metal halide fittings with suitable earthing arrangements and dismantling and cost and conveyance of all materials and all labour charges complete for one day.	1 No	2407
878	HIR-00294	ELEC-12.1.54	Hire charges for Supply and erection of 6 pole structure of 6 of 25' (7.50 Mtrs.) GI pipe of 63/80mm dia with necessary cross arms and hardware materials for fixing halogen / Metal halide fittings with suitable earthing arrangements and dismantling and cost and conveyance of all materials and all labour charges complete for one day.	1 No	3619

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
879	HIR-00295	ELEC-12.1.55	Hire charges for providing, commissioning and maintaining CCTV system with 8 channel NVR, IP video/audio input - 1 no, IP based 2.0 MP, Full HD, IR IP dome camera - 2 nos, IP based 2.0 MP, Full HD, IR IP PTZ camera - 2 nos, 2TB Hard Disk - 2 no, 32" Full H D professional Display - 1 no, 8 port PoE Switch - 1 no, Power supply unit to camera - 1 no, On Line UPS - 1 no with necessary mains, switchgears for one day	1 Job	8247
880	HIR-00296	ELEC-12.1.56	Hire charges for providing, commissioning and maintaining IP based 2.0 MP, full HD, IR IP dome / bullet camera with necessary Cat 6 cables etc., for one day.	1 No	1023
881	HIR-00297	ELEC-12.1.57	Hire charges for providing, commissioning and maintaining IP based 2.0 MP, Full HD, IR IP PTZ camera with necessary Cat 6 cables etc., for one day.	1 No	2841
		Note:-	1) The Rates for all the items are for one glowing / working day		
			2) Allow 50% of the rate for each day upto 3 days (i.e, 2nd and 3rd day) (Except items 12.1.23 to 12.1.26) .		
			3) For each additional day after 3 days, but not exceeding 15 days, allow 25% rate.		
			4) For more than 15 days allow 10% per day but total rental charges shall not exceed 80% of the capital cost of the item.		
			5) For item no. 12.1.22 the rates of projector is for 1 function or for max. period of 1 day whichever is more, including transportation, connections with projector, operator till completion of function.		
			6) For item No 12.1.23 to 12.1.26, the rate is for one day, For subsequent days (i.e, 2nd to 8th day) allow 75% of the above rate, after 8th day allow 50% the rate.		
			12.2 Hiring of Generators		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
882	HIR-00298	ELEC-12.2.1	Hire charges for supplying and maintaining 62.5KVA, 415V, 50 cycles A.C.Generating set with acoustic enclosure as per IS Specification with DCM 4 Wheeler Vehicle with all standard accessories such as control panel, batteries etc. complete excluding cost of fuel, for one day.	1 No	8241
883	HIR-00299	ELEC-12.2.2	Hire charges for supplying and maintaining 125KVA 415V 50 cycles A.C.Generating set with acoustic enclosure as per IS Specification with DCM 4 Wheeler Vehicle with all standard accessories such as control panel, batteries etc. complete excluding cost of fuel, for one day.	1 No	9419
884	HIR-00300	ELEC-12.2.3	Hire charges for supplying and maintaining 250KVA 415V 50 cycles A.C.Generating set with acoustic enclosure as per IS Specification with DCM 4 Wheeler Vehicle with all standard accessories such as control panel, batteries etc. complete excluding cost of fuel, for one day.	1 No	13192
		Note:-	1) Above rates are applicable for per one day only.		
			2) For subsequent days the above rate shall be reduced by 25% after 8th day reduce the rate by 50%		
			3) Diesel cost will be paid extra for running hours at the prevailing rates.		
			4) For test run,. The minimum requirement of the fuel shall be born by the contractor.		
			5) The D.G set should be in good conditin and the life of set shall not be beyond 10 years.		
		13.1	LIFTS (New Installation)		
885	MAT-08534	ELEC-13.1.1	Supply, Installation, Testing and Commissioning of Electric Traction Passenger Lift of Makes : As per list of recommended brands. with <ul style="list-style-type: none"> • Rated capacity :- 8 Passenger/544Kg • Floors :- G+1 floor (2Stops/2 Landings) • Travel :- 3 to 4.2 mtrs • Location of Lift Machine:- MRL • Rated speed :- 1.0/1.25mps VS • Doors type :- COPO/TOPO Doors with frame 	1Job	1218310

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			<p>having clear opening of 800 mm wide x 2000 mm high made from SS 304 grade sheet of 1.5mm, thick in hairline finish for car and all landing doors with SS door architraves/frames</p> <ul style="list-style-type: none"> Lift car enclosure made from SS 304 grade sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. COP with SS face plate having metallic push buttons with Braille Code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with/without attendant key switch, OWD with audio-visual alarm, VAS in Telugu & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor <p>Clear Car size of .....mm wide x .....mm deep x .....mm high</p>		
			<ul style="list-style-type: none"> LOP with SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED indicator having metallic push buttons with Braille Code & luminous indicator around button with CPI, Lift car arrival & next travel direction audio-visual indication at all landings <p>Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port, control panel duly wired with proper size & strength copper wire for power & control circuit, with provision for addition of floor/control card & allied accessories control panel having enclosure of 1.5mm CRCA sheet with powder coating with IP54 Protection class</p> <ul style="list-style-type: none"> ARD complete with necessary SMF VRLA batteries Fireman controller having fireman switch at fire Landing, <p>Lift Machine of Gearless PMSM of suitable kW with Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size girders duly fixed on LMR floor/ shaft walls complete with main/diverter traction sheaves, suspension wire ropes/belts of adequate size & strength</p>		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			<ul style="list-style-type: none"> Other mechanical parts such as 'T' section adequate size guide rails for car & counter weight with brackets fasteners, counter weight frame with necessary blocks, buffers with necessary support arrangement, MS pit ladder etc. erected with necessary steel work 		
			<p>Minor civil work for alteration if any and erection of door frames and accessories, erection buffers, erection of lift machinery, adequate size core cuts if required & scaffolding for erecting guide rails fixing of girders for mounting lift machine etc. complete as per specification no. LFT.</p> <ul style="list-style-type: none"> Lift shaft available having clear size of .....mm wide x .....mm deep. ....mm Pit depth, .....mm Overhead. 		
886	MAT-08535	ELEC-13.1.2	<p>Supply, Installation, Testing and Commissioning of Electric Traction Passenger Lift of Makes : As per list of recommended brands.</p> <p>with</p> <ul style="list-style-type: none"> Rated capacity :- 10 Passenger/680Kg Floors :- G+1 floor (2Stops/2 Landings) Travel :- 3 to 4.2 mtrs Location of Lift Machine:- MRL Rated speed :- 1.0/1.25mps VS Doors type :- COPO/TOPO Doors with frame having clear opening of 800 mm wide x 2000 mm high made from SS 304 grade sheet of 1.5mm, thick in hairline finish for car and all landing doors with SS door architraves/frames Lift car enclosure made from SS 304 grade sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. COP with SS face plate having metallic push buttons with Braille Code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with/without attendant key switch, OWD with audio-visual alarm, VAS in Telugu & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor. 	1Job	1457395

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Clear Car size of .....mm wide x .....mm deep x .....mm high		
			<ul style="list-style-type: none"> • LOP with SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED indicator having metallic push buttons with Braille Code & luminous indicator around button with CPI, Lift car arrival & next travel direction audio-visual indication at all landings • Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port, control panel duly wired with proper size & strength copper wire for power & control circuit, with provision for addition of floor/ control card & allied accessories control panel having enclosure of 1.5mm CRCA sheet with powder coating with IP54 Protection class • ARD complete with necessary SMF VRLA batteries • Fireman controller having fireman switch at fire Landing. • Lift Machine of Gearless PMSM of suitable kW with Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size girders duly fixed on LMR floor/ shaft walls complete with main/diverter traction sheaves, suspension wire ropes/belts of adequate size & strength. • Other mechanical parts such as 'T' section adequate size guiderails for car & counter weight with brackets fasteners, counter weight frame with necessary blocks, buffers with necessary support arrangement, MS pit ladder etc. erected with necessary steel work 		
			<ul style="list-style-type: none"> • Minor civil work for alteration if any and erection of door frames and accessories, erection buffers, erection of lift machinery, adequate size core cuts if required & scaffolding for erecting guide rails fixing of girders for mounting lift machine etc. complete as per specification no. LFT. • Lift shaft available having clear size of .....mm wide x .....mm deep, .....mm Pit depth, ,mm Overhead. 		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
887	MAT-08536	ELEC-13.1.3	<p>Supply, Installation, Testing and Commissioning of Electric Traction Passenger Lift of Makes : As per list of recommended brands.</p> <p>with</p> <ul style="list-style-type: none"> • Rated capacity :- 13 Passenger/884Kg • Floors :- G+1 floor (2Stops/2 Landings) • Travel :- 3 to 4.2 mtrs. • Location of Lift Machine:- MRL • Rated speed :- 1.0/1.25mps VS • Doors type :- COPO/TOPO Doors with frame having clear opening of 900/1000 mm wide x 2000 mm high made from SS 304 grade sheet of 1.5mm, thick in hairline finish for car and all landing doors with SS door architraves/ frames • Lift car enclosure made from SS 304 grade sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. COP with SS face plate having metallic push buttons with Braille Code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with/without attendant key switch, OWD with audio-visual alarm, VAS in Telugu & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor • Clear Car size of .....mm wide x ....mm deep x .....mm high 	1Job	1555950
			<ul style="list-style-type: none"> • LOP with SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED indicator having metallic push buttons with Braille Code & luminous indicator around button with CPI, Lift car arrival & next travel direction audio-visual indication at all landings • Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port, control panel duly wired with proper size & strength copper wire for power & control circuit, with provision for addition of floor /control card & allied accessories control panel having enclosure of 1.5mm CRCA sheet with powder coating with IP54 Protection class 		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			<p>ARD complete with necessary SMF VRLA batteries</p> <ul style="list-style-type: none"> • Fireman controller having fireman switch at fire Landing, • Lift Machine of Gearless PMSM of suitable kW with Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size girders duly fixed on LMR floor/ shaft walls complete with main/diverter traction sheaves, suspension wire ropes/belts of adequate size & strength <p>Other mechanical parts such as 'T' section adequate size guide rails for car & counter weight with brackets fasteners, counter weight frame with necessary blocks, buffers with necessary support arrangement, MS pit ladder etc. erected with necessary steel work</p>		
			<ul style="list-style-type: none"> • Minor civil work for alteration if any and erection of door frames and accessories, erection buffers, erection of lift machinery, adequate size core cuts if required & scaffolding for erecting guide rails fixing of girders for mounting lift machine etc. complete as per specification no. LFT. • Lift shaft available having clear size of .....mm wide x .....mm deep, .....mm Pit depth, .....mm Overhead 		
888	MAT-08537	ELEC-13.1.4	<p>Supply, Installation, Testing and Commissioning of Electric Traction Passenger cum Stretcher/Hospital Lift of Makes : As per list of recommended brands. with</p> <ul style="list-style-type: none"> • Rated capacity :- 15 Passenger/1020Kg • Floors :- G+1 floor (2Stops/2 Landings) • Travel :- 3 to 4.2 mtrs • Location of Lift Machine:- MRL • Rated speed :- 1.0/1.25mps VS • Doors type :- COPO/TOPO Doors with frame having clear opening of 800/900/1000 mm wide x 2000mm high made from SS 304 grade sheet of 1.5mm, thick in hairline finish for car and all landing doors with SS door architraves /frames • Lift car enclosure made from SS 304 grade sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, 	1Job	1823900

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. COP with SS face plate having metallic push buttons with Braille Code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with/without attendant key switch, OWD with audio-visual alarm, VAS in Telugu & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor Clear Car size of .....mm wide x .....mm deep x .....mm high		
			<ul style="list-style-type: none"> • LOP with SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED indicator having metallic push buttons with Braille Code & luminous indicator around button with CPI, Lift car arrival & next travel direction audio-visual indication at all landings 		
			<ul style="list-style-type: none"> • Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port, control panel duly wired with proper size & strength copper wire for power & control circuit, with provision for addition of floor/ control card & allied accessories control panel having enclosure of 1.5mm CRCA sheet with powder coating with IP54 Protection class ARD complete with necessary SMF VRLA batteries • Fireman controller having fireman switch at fire Landing, • CCTV surveillance system comprises of 2nos minimum 2.0MP FHD IP based vandal proof Dome camera in lift car & in LMR/inside lift shaft top aimed on Lift machinery & controller with NVR kept in LMR/FCC with HDR data backup for 60 days with 18" FHD TV monitor, to be kept in FCC/LMR as directed by Engineer In Charge • Lift Machine of Gearless PMSM of suitable kW with Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size girders duly fixed on LMR floor/ shaft walls complete with main/diverter traction sheaves, suspension wire ropes/belts of adequate size & strength Other mechanical parts such as 'T' section adequate size guide rails for car & counter weight with 		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			brackets fasteners, counter weight frame with necessary blocks, buffers with necessary support arrangement, MS pit ladder etc. erected with necessary steel work • Minor civil work for alteration if any and erection of door frames and accessories, erection buffers, erection of lift machinery		
			, adequate size core cuts if required & scaffolding for erecting guide rails fixing of girders for mounting lift machine etc. complete as per specification no. LFT. • Lift shaft available having clear size of .....mm wide x .....mm deep ,mm Pit depth, ,mm Overhead		
889	MAT-08538	ELEC-13.1.5	Supply, Installation, Testing and Commissioning of Electric Traction Passenger cum Stretcher/Hospital Lift of Makes : As per list of recommended brands. with • Rated capacity :- 20 Passenger/1360Kg • Floors :- G+1 floor (2Stops/2 Landings) • Travel :- 3 to 4.2 mtrs • Location of Lift Machine:- MRL • Rated speed :- 1.0/1.25mps VS • Doors type :- COPO/TOPO Doors with frame having clear opening of 1100/1200 mm wide x 2000 mm high made from SS 304 grade sheet of 1.5mm, thick in hairline finish for car and all landing doors with SS door architraves/frames • Lift car enclosure made from SS 304 grade sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. • COP with SS face plate having metallic push buttons with Braille Code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with/without attendant key switch, OWD with audio-visual alarm, VAS in Telugu & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor • Clear Car size of .....mm wide x .....mm deep x	1Job	1823900

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			.....mm high		
			<p>LOP with SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED indicator having metallic push buttons with Braille Code & luminous indicator around button with CPI, Lift car arrival & next travel direction audio-visual indication at all landings</p> <ul style="list-style-type: none"> • Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port, control panel duly wired with proper size & strength copper wire for power & control circuit, with provision for addition of floor/control card & allied accessories control panel having enclosure of 1.5mm CRCA sheet with powder coating with IP54 Protection class ARD complete with necessary SMF VRLA batteries • Fireman controller having fireman switch at fire Landing, • CCTV surveillance system comprises of 2nos minimum 2.0MP FHD IP based vandal proof Dome camera in lift car & in LMR/inside lift shaft top aimed on Lift machinery & controller with NVR kept in LMR/FCC with HDR data backup for 60 days with 18" FHD TV monitor, to be kept in FCC/LMR as directed by Engineer In Charge. • Lift Machine of Gearless PMSM of suitable kW with Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size girders duly fixed on LMR floor/ shaft walls complete with main/diverter traction sheaves, suspension wire ropes/belts of adequate size & strength. 		
			<p>Other mechanical parts such as 'T' section adequate size guide rails for car & counter weight with brackets fasteners, counter weight frame with necessary blocks, buffers with necessary support arrangement, MS pit ladder etc. erected with necessary steel work</p> <ul style="list-style-type: none"> • Minor civil work for alteration if any and erection of door frames and accessories, erection buffers, erection of lift machinery, adequate size core cuts if required & scaffolding for erecting guide rails fixing 		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			of girders for mounting lift machine etc. complete as per specification no. LFT. • Lift shaft available having clear size of .....mm wide x.....mm deep, .....mm Pit depth, .....mm Overhead.		
890	MAT-08539	ELEC-13.1.6	Supply, Installation, Testing and Commissioning of Electric Traction Passenger Lift of Makes : As per list of recommended brands. with • Rated capacity :- 22 Passenger/1496Kg • Floors :- G+1 floor (2Stops/2 Landings) • Travel :- 3 to 4.2 mtrs • Location of Lift Machine:- MRL • Rated speed :- 1.0/1.25mps VS • Doors type :- COPO/TOPO Doors with frame having clear opening of 1100 mm wide x 2000 mm high made from SS 304 grade sheet of 1.5mm, thick in hairline finish for car and all landing doors with SS door architraves/frames • Lift car enclosure made from SS 304 grade sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. COP with SS face plate having metallic push buttons with Braille Code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with/without attendant key switch, OWD with audio-visual alarm, VAS in Telugu & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor • Clear Car size of .....mm wide x .....mm deep x .....mm high • LOP with SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED indicator having metallic push buttons with Braille Code & luminous indicator around button with CPI, Lift car arrival & next travel direction audio-visual	1Job	2231230
			indication at all landings Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port, control		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			<p>panel duly wired with proper size & strength copper wire for power & control circuit, with provision for addition of floor/control card & allied accessories control panel having enclosure of 1.5mm CRCA sheet with powder coating with IP54 Protection class</p> <ul style="list-style-type: none"> • ARD complete with necessary SMF VRLA batteries • Fireman controller having fireman switch at fire Landing, <p>Lift Machine of Gearless PMSM of suitable kW with Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size girders duly fixed on LMR floor/ shaft walls complete with main/diverter traction sheaves, suspension wire ropes/belts of adequate size & strength</p> <ul style="list-style-type: none"> • Other mechanical parts such as 'T' section adequate size guide rails for car & counter weight with brackets fasteners, counter weight frame with necessary blocks, buffers with necessary 		
			<p>support arrangement, MS pit ladder etc. erected with necessary steel work</p> <p>Minor civil work for alteration if any and erection of door frames and accessories, erection buffers, erection of lift machinery, adequate size core cuts if required & scaffolding for erecting guide rails fixing of girders for mounting lift machine etc. complete as per specification no. LFT.</p> <ul style="list-style-type: none"> • Lift shaft available having clear size of .....mm wide x .....mm deep, .....mm Pit depth, .....mm Overhead. 		
891	MAT-08540	ELEC-13.1.7	<p>Supply, Installation, Testing and Commissioning of Electric Traction Passenger cum Stretcher/Hospital Lift of Makes : As per list of recommended brands. with</p> <ul style="list-style-type: none"> • Rated capacity :- 26 Passenger/1768Kg • Floors :- G+1 floor (2Stops/2 Landings) • Travel :- 3 to 4.2 mtrs • Location of Lift Machine:- MR • Rated speed :- 1.0/1.25mps VS • Doors type :- COPO/TOPO Doors with frame having clear opening of 1100/1200 mm wide x 2000 mm high made from SS 304 grade sheet of 1.5mm, 	1Job	1823900

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			<p>thick in hairline finish for car and all landing doors with SS door architraves/frames</p> <ul style="list-style-type: none"> Lift car enclosure made from SS 304 grade sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. COP with SS face plate having metallic push buttons with Braille Code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with/without attendant key switch, OWD with audio-visual alarm, VAS in Telugu & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor Clear Car size of .....mm wide x .....mm deep x .....mm high 		
			<ul style="list-style-type: none"> LOP with SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED indicator having metallic push buttons with Braille Code & luminous indicator around button with CPI, Lift car arrival & next travel direction audio-visual indication at all landings Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port, control panel duly wired with proper size & strength copper wire for power & control circuit, with provision for addition of floor/control card & allied accessories control panel having enclosure of 1.5mm CRCA sheet with powder coating with IP54 Protection class ARD complete with necessary SMF VRLA batteries Fireman controller having fireman switch at fire Landing, CCTV surveillance system comprises of 2nos minimum 2.0MP FHD IP based vandal proof Dome camera in lift car & in LMR/inside lift shaft top aimed on Lift machinery & controller with NVR kept in LMR/FCC with HDR data backup for 60 days with 18" FHD TV monitor, to be kept in FCC/LMR as directed by Engineer In Charge. Lift Machine of Gearless PMSM of suitable kW with 		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size girders duly fixed on LMR floor/ shaft walls complete with main/diverter traction sheaves, suspension wire ropes/belts		
			<p>of adequate size & strength</p> <ul style="list-style-type: none"> • Other mechanical parts such as 'T' section adequate size guide rails for car & counter weight with brackets fasteners, counter weight frame with necessary blocks, buffers with necessary support arrangement, MS pit ladder etc. erected with necessary steel work • Minor civil work for alteration if any and erection of door frames and accessories, erection buffers, erection of lift machinery, adequate size core cuts if required & scaffolding for erecting guide rails fixing of girders for mounting lift machine etc. complete as per specification no. LFT. • Lift shaft available having clear size of .....mm wide x.....mm deep, .....mm Pit depth, .....mm Overhead. 		
892	MAT-08541	ELEC-13.1.8	<p>Supply, Installation, Testing and Commissioning of Electric Traction Goods Lift of Makes : As per list of recommended brands.</p> <p>with</p> <ul style="list-style-type: none"> • Rated capacity :- 3000Kg Goods/44 Passengers • Floors :- G+1 floor (2Stops/2 Landings) • Travel :- 3 to 4.2 mtrs • Location of Lift Machine:- MR • Rated speed :- 0.6 to 1.0mps VS • Doors type :- COPO/TOPO Doors with frame having clear opening of 1700 mm wide x 2000 mm high made from SS 304 grade sheet of 1.5mm, thick in hairline finish for car and all landing doors with SS door architraves/frames • Lift car enclosure made from SS 304 grade sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. 	1Job	2889490

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			<ul style="list-style-type: none"> • COP with SS face plate having metallic push buttons with Braille Code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with/without attendant key switch, OWD with audio-visual alarm, VAS in Telugu & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor • Clear Car size of .....mm wide x .....mm deep x .....mm high LOP with SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED indicator having metallic push buttons with Braille Code & luminous indicator around button with 		
			<p>CPI, Lift car arrival & next travel direction audio-visual indication at all landings</p> <ul style="list-style-type: none"> • Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port, control panel duly wired with proper size & strength copper wire for power & control circuit, with provision for addition of floor/control card & allied accessories control panel having enclosure of 1.5mm CRCA sheet with powder coating with IP54 Protection class • ARD complete with necessary SMF VRLA batteries • Fireman controller having fireman switch at fire Landing, • Lift Machine of Gearless PMSM of suitable kW with Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size girders duly fixed on LMR floor/ shaft walls complete with main/diverter traction sheaves, suspension wire ropes/belts of adequate size & strength <p>Other mechanical parts such as 'T' section adequate size guide rails for car & counter weight with brackets fasteners, counter</p>		
			<p>weight frame with necessary blocks, buffers with necessary support arrangement, MS pit ladder etc. erected with necessary steel work</p> <ul style="list-style-type: none"> • Minor civil work for alteration if any and erection of door frames and accessories, erection buffers, erection of lift machinery, adequate size core cuts if required & scaffolding for erecting guide 		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			rails fixing of girders for mounting lift machine etc. complete as per specification no. LFT. • Lift shaft available having clear size of .....mm wide x.....mm deep, .....mm Pit depth, .....mm Overhead.		
893	MAT-08542	ELEC-13.1.9	<p>Supply, Installation, Testing and Commissioning of Electric Traction Goods Lift of Makes : As per list of recommended brands.</p> <p>with</p> <ul style="list-style-type: none"> • Rated capacity :- 4000Kg Goods /59 Passengers • Floors :- G+1 floor (2Stops/2 Landings) • Travel :- 3 to 4.2 mtrs • Location of Lift Machine:- MR • Rated speed :- 0.6 to 1.0mps VS • Doors type :- COPO/TOPO Doors with frame having clear opening of 2100 mm wide x 2000 mm high made from SS 304 grade sheet of 1.5mm, thick in hairline finish for car and all landing doors with SS door architraves/frames • Lift car enclosure made from SS 304 grade sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. • COP with SS face plate having metallic push buttons with Braille Code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with/without attendant key switch, OWD with audio-visual alarm, VAS in Telugu & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor <p>Clear Car size of .....mm wide x .....mm deep x .....mm high</p> <ul style="list-style-type: none"> • LOP with SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED indicator having metallic push buttons with Braille Code & luminous indicator around button with CPI, Lift car arrival & next travel direction audio-visual 	1Job	3199875

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			<p>indication at all landings</p> <ul style="list-style-type: none"> • Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port, control panel duly wired with proper size & strength copper wire for power & control circuit, with provision for addition of floor/control card & allied accessories control panel having enclosure of 1.5mm CRCA sheet with powder coating with IP54 Protection class ARD complete with necessary SMF VRLA batteries • Fireman controller having fireman switch at fire Landing, • Lift Machine of Gearless PMSM of suitable kW with Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size girders duly fixed on LMR floor/ shaft walls complete with main/diverter traction sheaves, suspension wire ropes/belts of adequate size & strength. Other mechanical parts such as 'T' section adequate size guide rails for car & counter weight with brackets fasteners, counter weight frame with necessary blocks, buffers with necessary support arrangement, MS pit ladder etc. erected with necessary steel work • Minor civil work for alteration if any and erection of door frames 		
			<p>and accessories, erection buffers, erection of lift machinery, adequate size core cuts if required & scaffolding for erecting guide rails fixing of girders for mounting lift machine etc. complete as per specification no. LFT.</p> <ul style="list-style-type: none"> • Lift shaft available having clear size of .....mm wide x.....mm deep, .....mm Pit depth, .....mm Overhead. 		
		NOTE:	<p>1. The above rates are applicable only for the makes: KONE/OTIS/SCHINDLER/MITSUBISHI/JOHNSON.</p>		
			<p>2. If the local reputed brands preferred by the Departments or Corporations, the makes Suryodaya Elevators/ESCO Lifts/Sunrise Lifts/ or any other make approved by the competent authority subject to the condition that the Specifications remains unchanged can be adopted in the estimate by</p>		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			reducing the price @15% less than the above rates.		
			Add On		
		A	For Lift travelling up to six floors or at a speed of 1.0 mps, add as below,		
894	MAT-08543	1	For Lift having 700mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	150248
895	MAT-08544	2	For Lift having 800mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, traveling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	154790
896	MAT-08545	3	For Lift having 900mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	160195
897	MAT-08546	4	For Lift having 1000mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling	1Floor	165025

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safefunctioning of lift installation complete		
898	MAT-08547	5	For Lift having 1100mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landingdoors with all accessories etc. necessary for the normal safefunctioning of lift installation complete	1Floor	169970
899	MAT-08548	6	For Lift having 1200mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	175835
900	MAT-08549	7	For Lift having 1300mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two/four panel], this includes all necessary accessories like LOP's with UP/DN buttons- arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landingdoors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	181240
901	MAT-08550	8	For Lift having 1400mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two/four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories	1Floor	186760

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			etc. necessary for the normal safe functioning of lift installation complete		
902	MAT-08551	9	For Lift having 1500mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	196190
903	MAT-08552	10	For Lift having 1700mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	205735
904	MAT-08553	11	For Lift having 1800mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	216200
905	MAT-08554	12	For Lift having 2100mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Six panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	235520

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
906	MAT-08555	13	For Lift having 2200mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Six panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	243685
		A1	For Lift travelling above six floors & up to fifteen floors or at a speed of 1.5 mps, add as below,		
907	MAT-08556	1	For Lift having 700mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	156975
908	MAT-08557	2	For Lift having 800mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	161805
909	MAT-08558	3	For Lift having 900mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	167440

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
910	MAT-08559	4	For Lift having 1000mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	172385
911	MAT-08560	5	For Lift having 1100mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	177560
912	MAT-08561	6	For Lift having 1200mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	183770
913	MAT-08562	7	For Lift having 1300mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two/four panel], this includes all necessary accessories like LOP's with UP/DN buttons- arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	189290
914	MAT-08563	8	For Lift having 1400mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two/four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting	1Floor	195040

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete		
915	MAT-08564	9	For Lift having 1500mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	204815
916	MAT-08565	10	For Lift having 1700mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	214935
917	MAT-08566	11	For Lift having 1800mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	225745
918	MAT-08567	12	For Lift having 2100mm wide x 2000mm high clear entrance 1.5mm thick SS 304 grade landing door [Six panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	245985
919	MAT-08568	13	For Lift having 2200mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Six panel], this includes all necessary accessories	1Floor	254610

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete		
		A2	For Lift travelling above fifteen floors & up to twenty floors or at a speed of 1.75 mps, add as below,		
920	MAT-08569	1	For Lift having 800mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	166520
921	MAT-08570	2	For Lift having 900mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	172385
922	MAT-08571	3	For Lift having 1000mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	177445
923	MAT-08572	4	For Lift having 1100mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope,	1Floor	182850

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			landing doors with all accessories etc. complete for the safe functioning of lift installation.		
924	MAT-08573	5	For Lift having 1200mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	189175
925	MAT-08574	6	For Lift having 1300mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two/four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	194925
926	MAT-08575	7	For Lift having 1400mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two/four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	200790
927	MAT-08576	8	For Lift having 1500mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	210795
928	MAT-08577	9	For Lift having 1700mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Four panel], this includes all necessary accessories like LOP's	1Floor	221375

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.		
929	MAT-08578	10	For Lift having 1800mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	188255
930	MAT-08579	11	For Lift having 2100mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Six panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	253460
931	MAT-08580	12	For Lift having 2200mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Six panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring 1.5mm thick SS 304 grade landing door [Six panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	261970
		B	If there is additional automatic car door, add as below.		
932	MAT-08581	1	For Lift car having 700mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [Two panel] complete with required accessories like door operator mechanism with drive, required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	124430

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
933	MAT-08582	2	For Lift car having 800mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [Two panel] complete with required accessories like door operator mechanism with drive, required Aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	128225
934	MAT-08583	3	For Lift car having 900mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [Two panel] complete with required accessories like door operator mechanism with drive, required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	132710
935	MAT-08584	4	For Lift car having 1000mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [Two panel]complete with required accessories like door operator mechanism with drive, required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	137080
936	MAT-08585	5	For Lift car having 1100mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [Two panel]complete with required accessories like door operator mechanism with drive, required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete	1Set	141220
937	MAT-08586	6	For Lift car having 1200mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [Two panel]complete with required accessories like door operator mechanism with drive, required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	146280
938	MAT-08587	7	For Lift car having 1300mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [Two/four panel] complete with required accessories like door operator mechanism with drive, required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	150995

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1		2	3	4	5
939	MAT-08588	8	For Lift car having 1400mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [Two/four panel]complete with required accessories like door operator mechanism with drive, required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	155480
940	MAT-08589	9	For Lift car having 1500mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [four panel] complete with required accessories like door operator mechanism with drive,required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	163185
941	MAT-08590	10	For Lift car having 1700mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [four panel] complete with required accessories like door operator mechanism with drive,required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	172270
942	MAT-08591	11	For Lift car having 1800mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [four panel] complete with required accessories like door operator mechanism with drive,required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	180780
943	MAT-08592	12	For Lift car having 2100mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [six panel] complete with required accessories like door operator mechanism with drive,required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	197570
944	MAT-08593	13	For Lift car having 2200mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [six panel] complete required aluminium sill, infrared curtain & necessary wiring interlocking arrangement etc. complete.	1Set	205160

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
		C	For Full Collective control system, add as below.		
945	MAT-08594	1	For Lift travelling above First floor & up to Sixth floor	1No	29590
946	MAT-08595	2	For Lift travelling above Sixth floor & up to Fifteenth floor	1No	67760
947	MAT-08596	3	For Lift travelling above Fifteenth floor & up to Twentieth floor	1No	88880
948	MAT-08597	D	For additional 2MP Camera along with necessary accessories at Home Landing, add as given.	1No	14630
		E	For Group control system of number of lifts, add as below.		
949	MAT-08598	1	For Duplex Lift control system	1Job	37620
950	MAT-08599	2	For Triplex Lift control system	1Job	56210
951	MAT-08600	3	For Quadruplex Lift control system	1Job	75790
952	MAT-08601	F	For vision panel having Size 100mm wide x 200mm high covered with fire rated laminated glass, having punched Jali as a part of the door panel SS sheet itself.	1No	2970
		G	The above rates are for landing & car door height of 2000mm and Lift car ceiling height of 2250mm. If the requirements for landing & car doors height above 2000mm & Lift car height above 2250mm, add overall Rs. per 100mm rise per Lift per landing.		
		a	For Lift car enclosure & car door per 100mm Step rise		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
953	MAT-08602	1	for Lift car door, having clear entrance of 700/800/900mm wide	1 per Landing	48730
954	MAT-08603	2	for Lift car door, having clear entrance 1000/1100/1200/1300mm wide	1 per Landing	66770
955	MAT-08604	3	for Lift car door, having clear entrance 1400/1500/1700mm wide	1 per Landing	117040
956	MAT-08605	4	for Lift car door, having clear entrance 1800/2100/2200mm wide	1 per Landing	198880
		b	For Lift Landings per 100mm Step rise		
957	MAT-08606	1	for Lift Landing door having clear entrance of 700/800/900mm wide	1 per Landing	12210
958	MAT-08607	2	for Lift Landing door, having clear entrance of 1000/1100/1200/1300mm wide	1 per Landing	16610
959	MAT-08608	3	for Lift Landing door, having clear entrance of 1400/1500/1700mm wide	1 per Landing	26290
960	MAT-08609	4	for Lift Landing door, having clear entrance of 1800/2100/2200mm wide	1 per Landing	39380
		Notes:			
		1	General: - Job includes entire procedure of obtaining all necessary erection permissions & "License to Work the Lift" from Electrical Inspector(Lifts) with submission to the Engineer In Charge.		
		2	Warrantee: - Job covers two years onsite warrantee for all the Lift parts with FCAMC as per the maintenance schedule.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Note 1 and 2 above shall be included in item description.		
		3	If the lift shaft is greater than the required size of the lift as mentioned in relevant Indian Standard [with Amendments up to date], the provision of extra steel required for erecting supports of guide rails shall be made by the department as a separate item		
		4	The Electric power supply of 415 volts, 3 phase 4 wire, 50Hz shall be made available up to Lift controller, and as per the provisions laid down in relevant The Electricity Safety Regulations 2010 [with Amendments up to date], Indian Standard, relevant Rules, the separate cables for lighting and power & shall be erected through lift shaft only with 2 nos distinct earth connections from lift machine & controller		
		5	The technical specification of Lift duty motor, control panel, brakes, guide rails, and guide shoes, lift car frame, car, counter weight and suspension, lift safety gear and governor, buffer, lift doors, locking device and contacts, lift wire rope of lifts shall be as per actual requirement of the job.		
		6	For nonstandard lift shafts the Lift capacity shall be selected so that all the safety clearances to be maintained as per the provisions laid down in relevant Indian Standard, & relevant Rules and work shall be carried out accordingly		
		7	For building having height of 15 mtr or more, lift shall meet the requirement of fireman lift as per the statutory requirements laid in relevant Indian Standard		
		8	Vision Panel shall not be provided on power operated doors and Fireman lifts. However manually operated vertically sliding, horizontally sliding or swing type doors may be provided with a vision panel if required		
		9	While framing estimates of lifts for handicapped persons/ Hospital/ Goods Lifts, the relevant Indian standard shall be referred for dimensions.		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
		10	The sizes in mm for Lift car, entrance, available lift Shaft etc. with travel shall be mentioned in the Detailed Estimate		
		11	The above rates are for mostly installed Electric Traction Lifts, for Lift requirements with different purposes/ specifications, the items should be got approved from the competent authority		
		12	The Traffic Analysis [TA] shall be done as per the provisions laid down in relevant Indian standards for finalizing the capacity and number of Lifts in different types of buildings.		
			13.2: LIFT REPAIR/MODERNIZATION		
			LIFT MACHINE		
961	MAT-08610	ELEC-13.2.1	Overhauling of Gearbox by opening the gear box, cleaning the oil path with oil adjusting the Thrust bearing, & bush with packings etc. and refilling with the fresh oil of requisite viscosity and sufficient quantity, complete with re-erection as original with necessary alignment & testing.	1Job	6600
962	MAT-08611	ELEC-13.2.2	Providing dismantling the existing worn-out/damaged Thrust bearing & bush with allied accessories complete supplying & installing new Thrust bearing & Bush with allied accessories like packings etc. and refilling with the fresh gear oil of requisite viscosity and sufficient quantity, complete suitable up to 10 passenger lift car with re-erection as original with necessary alignment & testing	1Job	16500
963	MAT-08612	ELEC-13.2.3	Providing dismantling the existing lift duty electric motor from lift gearbox coupling to carryout necessary repairs and re-erection the same as original with necessary alignment & testing complete after repairing	1Job	3300
964	MAT-08613	ELEC-13.2.4	Providing rewinding of the electromagnetic type brake coil suitable to operate on 110V DC supply by superior quality enamelled copper wire of require size complete with testing	1Job	4950

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
965	MAT-08614	ELEC-13.2.5	Providing and fixing new set brake liner of good quality complete with alignment & testing with removal of old worn-out brake liners	1Job	2750
966	MAT-08615	ELEC-13.2.6	Providing dismantling the existing main driving sheave complete by hanging the lift car and providing and fixing a new main driving sheave made from superior quality cast iron completely finished having diameter up to 600mm suitable up to 4nos rope grooves the size for the same will be specified in the estimate	1Job	15950
967	MAT-08616	ELEC-13.2.7	Providing dismantling the existing main driving sheave complete by hanging the lift car and providing and fixing a new main driving sheave made from superior quality cast iron completely finished having diameter 601 to 800mm suitable up to 4nos rope grooves .	1Job	20350
968	MAT-08617	ELEC-13.2.8	Providing dismantling the existing diverter sheave complete by hanging the lift car and providing and fixing a new diverter sheave made from superior quality cast iron completely finished having diameter up to 250mm suitable up to 4nos rope grooves.	1Job	11440
969	MAT-08618	ELEC-13.2.9	Providing dismantling the existing diverter sheave complete by hanging the lift car and providing and fixing a new diverter sheave made from superior quality cast iron completely finished having diameter 251 to 500mm suitable up to 4nos rope grooves.	1Job	12980
970	MAT-08619	ELEC-13.2.10	Providing dismantling the existing OSG pulley set (top & bottom) complete and providing and fixing overspeed governor pulley set (top& bottom) made from superior quality cast iron completely finished suitable for Lift car rated speed.	1Job	11220
971	MAT-08620	ELEC-13.2.11	Providing dismantling the existing OSG rubber roller complete,providing and fixing new nylon roller of superior quality.	1Job	440
			LIFT CAR		
972	MAT-08621	ELEC-13.2.12	Providing dismantling the existing lift car/counter weight guide shoe liner and providing and fixing new superior quality non-metallic car/counter weight	1Job	3190

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			guide shoe Liner complete with re-erection,alignment & adjustment complete with lubrication		
973	MAT-08622	ELEC-13.2.13	Providing dismantling the existing unserviceable retiring cam (Door)by supplying & erecting new one of superior quality with necessary spare complete with re-erection and testing etc. with copper wound magnetic coil of 110V DC supply.	1Job	5060
974	MAT-08623	ELEC-13.2.14	Providing dismantling the existing deteriorated lift car flooring/floor tiles by supplying & erecting SS chequered plate of required thickness and of superior quality with necessary material	1Kg	550
975	MAT-08624	ELEC-13.2.15	Providing dismantling the existing deteriorated lift car enclosure by supplying & erecting new enclosure made from 1.5mm thick stainless steel sheet SS304 grade of superior quality with necessary material complete with handrail, mirror, required thickness stainless steel chequered plate flooring and min. 2.5mm thick GI sheet car top &stainless steel 304grade 1.2mm thick false ceiling & required LED light fitting & cabin fan/blower, emergency light with necessary grill along with required accessories suitable for 4 to 8 passenger lift car	1Job	167310
976	MAT-08625	ELEC-13.2.16	Providing dismantling the existing deteriorated lift car enclosure by supplying & erecting new enclosure made from 1.5mm thick stainless steel sheet SS304 grade of superior quality with necessary material complete with handrail, mirror, required thickness stainless steel chequered plate flooring and min. 2.5mm thick GI sheet car top & stainless steel 304grade 1.2mm thick false ceiling & required LED light fitting & cabin fan/blower, emergency light with necessary grill along with required accessories suitable for 10 to 13 passenger lift	1Job	201520
977	MAT-08626	ELEC-13.2.17	Providing dismantling the existing deteriorated lift car enclosure by supplying & erecting new enclosure made from 1.5mm thick stainless steel sheet SS304 grade of superior quality with necessary material complete with handrail, mirror, required thickness stainless steel chequered plate flooring and min. 2.5mm thick GI sheet car top &stainless steel 304grade 1.2mm thick false ceiling & required	1Job	234850

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			LED light fitting & cabin fan/blower, emergency light with necessary grill along with required accessories suitable for 14 to 16 passenger lift car		
978	MAT-08627	ELEC-13.2.18	Providing dismantling the existing deteriorated lift car enclosure by supplying & erecting new enclosure made from 1.5mm thick stainless steel sheet SS304 grade of superior quality with necessary material complete with handrail, mirror, required thickness stainless steel chequered plate flooring and min. 2.5mm thick GI sheet car top & stainless steel 304grade 1.2mm thick false ceiling & required LED light fitting & cabin fan/blower, emergency light with necessary grill along with required accessories suitable for 18 to 23 Passenger Lift Car	1Job	272250
979	MAT-08628	ELEC-13.2.19	Providing dismantling the existing deteriorated Lift car enclosure by supplying & erecting new enclosure made from 1.5mm thick stainless steel sheet SS304 grade of superior quality with necessary material complete with handrail, mirror, required thickness stainless steel chequered plate flooring and min. 2.5mm thick GI sheet car top & stainless steel 304grade 1.2mm thick false ceiling & required LED light fitting & cabin fan/blower, emergency light with necessary grill along with required accessories suitable for 26 to 36 Passenger Lift Car	1Job	347490
980	MAT-08629	ELEC-13.2.20	Supplying erecting & testing & commissioning minimum 2000mm high Infra-Red/IR curtain with minimum 80beams, suitable to attach automatic Lift car door complete with electronic driver suitable to work on 230V AC supply with required wiring & accessories complete connected to the lift controller safety circuit. including dismantling of existing accessories as applicable	1No	54670
981	MAT-08630	ELEC-13.2.21	Supplying & erecting laminated type with minimum 6mm thick mirror conforming to relevant standard in the lift car complete pasting with necessary adhesives if required and fixing with SS frame & accessories complete, this job includes dismantling of existing accessories as applicable	1Sqft	550
			LIFT SHAFT		

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1		2	3	4	5
982	MAT-08631	ELEC-13.2.22	Providing Emergency Stop Switch as per IS [push to stop&pull/rotate clockwise to open] erected on GI box in pit/LMR /car top for maintenance work complete with necessary wires	1No	770
983	MAT-08632	ELEC-13.2.23	Supplying & erecting over travel final/Terminal limit switch complete with nylon roller for up & down direction along with cams etc as required.	1No	2200
984	MAT-08633	ELEC-13.2.24	Providing and fixing new magnetic reed switch with M.S. Flag for levelling the lift. Providing and fixing necessary magnet for the floor position indicator, providing and fixing electronics card with digital indicator, complete with re-erection including dismantling of existing accessories as applicable	1No	1100
985	MAT-08634	ELEC-13.2.25	Supplying & erecting lift car door lock with electrical contact[spring loaded NO/NC of 5A/250V rating] complete unit with Bakelite roller attached to bracket on car top with M.S. "T" bracket attached to car gate complete with Testing including dismantling of existing accessories as applicable	1No	1100
986	MAT-08635	ELEC-13.2.26	Supplying & erecting main suspension wire rope of 13mm dia.having 8/19 construction as per IS complete with termination in provided eye bolts including dismantling of existing accessories as applicable	1Mt	220
987	MAT-08636	ELEC-13.2.27	Supplying & erecting main suspension wire rope of 10mm dia. having 8/19 construction as per IS complete with termination in provided eye bolts including dismantling of existing accessories as applicable	1Mt	220
988	MAT-08637	ELEC-13.2.28	Supplying & erecting main suspension wire rope of 8mm dia.having 8/19 construction as per IS complete with termination in provided eye bolts including dismantling of existing accessories as applicable	1Mt	165
989	MAT-08638	ELEC-13.2.29	Supplying & erecting wire rope of 3/4/6mm dia. having 6/19 construction as per IS complete with termination in provided eye bolts including dismantling of existing accessories as applicable	1Mt	110
990	MAT-08639	ELEC-13.2.30	Supplying & erecting GI eye bolt suitable for tie up of min. 13mm dia. lift wire ropes with 4nos bull dog	1No	1650

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			clips 8/19 construction as per IS Complete with termination in provided eye bolts including dismantling of existing accessories as applicable		
991	MAT-08640	ELEC-13.2.31	Supplying & erecting GI eye bolt suitable for tie up of 8/10mm dia.lift wire ropes with 4nos bull dog clips 8/19 construction as per IS Complete with termination in provided eye bolts including dismantling of existing accessories as applicable.	1No	1320
			CAR & LANDING DOORS:		
992	MAT-08641	ELEC-13.2.32	Repairing of M.S. collapsible landing/lift car door for broken rivets, pickets gibes, roller bearings complete with oiling etc. complete with re-erection, and alignment for smooth operation	1Job	990
993	MAT-08642	ELEC-13.2.33	Supplying & erecting MS collapsible type perforate Car/Landingdoor with 50mm high 8mm thick MS pata at top with roller bearings & nylon gibes complete having adequate strength as per requirements with necessary alignment complete with having clear opening of 700/800mm in width and clear height not less than 2000mm including dismantling of existing door as applicable	1Job	9900
994	MAT-08643	ELEC-13.2.34	Supplying & erecting MS collapsible type perforate Car/Landingdoor with 50mm high 8mm thick MS pata at top with roller bearings & nylon gibes complete having adequate strength as per requirements with necessary alignment complete with having clear opening of 1000/1200mm in width and clear height not less than 2000mm including dismantling of existing door as applicable	1Job	11770
995	MAT-08644	ELEC-13.2.35	Supplying & erecting MS Collapsible type imperforate Car/Landing door with 50mm high 8mm thick MS pata at top with roller bearings & Nylon gibes complete having adequate strength as per requirements with necessary alignment complete with grassing Note for Imperforate door the thickness of CRCA sheet not less than 1.mm having clear opening of 700/800mm in width and clear height not less than 2000mm, including dismantling of existing door as	1Job	15400

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			applicable		
996	MAT-08645	ELEC-13.2.36	Supplying & erecting COPO car/landing door panels with frame made from 1.5mm thick SS 304grade sheet complete with necessary coupler arrangements, nylon bearings at hanger with header assembly with all required accessories with electromechanical lock & nylon coated guide shoes complete having adequate strength as per requirements with necessary alignment complete with greasing having clear opening of 700mm in width and clear height not less than 2000mm, including dismantling of existing door as applicable.	1Job	68970
997	MAT-08646	ELEC-13.2.37	Supplying & erecting COPO car/landing door panels with frame made from 1.5mm thick SS 304grade sheet complete with necessary coupler arrangements, nylon bearings at hanger with header assembly with all required accessories with electromechanical lock & nylon coated guide shoes complete having adequate strength as per requirements with necessary alignment complete with greasing having clear opening of 800mm in width and clear height not less than 2000mm, including dismantling of existing door as applicable	1Job	73920
998	MAT-08647	ELEC-13.2.38	Supplying & erecting COPO car/landing door panels with frame made from 1.5mm thick SS 304grade sheet complete with necessary coupler arrangements, nylon bearings at hanger with header assembly with all required accessories with electromechanical lock & nylon coated guide shoes complete having adequate strength as per requirements with necessary alignment complete with greasing having clear opening of 900mm in width and clear height not less than 2000mm, including dismantling of existing door as applicable	1Job	83820
999	MAT-08648	ELEC-13.2.39	Supplying & erecting COPO car/landing door panels with frame made from 1.5mm thick SS 304grade sheet complete with necessary coupler arrangements,	1Job	95480

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			nylon bearings at hanger with header assembly with all required accessories with electromechanical lock & nylon coated guide shoes complete having adequate strength as per requirements with necessary alignment complete with greasing having clear opening of 1000mm in width and clear height not less than 2000mm, including dismantling of existing door as applicable		
1000	MAT-08649	ELEC-13.2.40	Supplying & erecting COPO car/landing door panels with frame made from 1.5mm thick SS 304 grade sheet complete with necessary coupler arrangements, nylon bearings at hanger with header assembly with all required accessories with electromechanical lock & nylon coated guide shoes complete having adequate strength as per requirements with necessary alignment complete with greasing having clear opening of 1200mm in width and clear height not less than 2000mm, including dismantling of existing door as applicable	1Job	108900
1001	MAT-08650	ELEC-13.2.41	Providing & fixing aluminium sill with 1 track suitable for fixing of car/ landing door with necessary material like MS brackets, fasteners complete with alignment, including dismantling of existing door as applicable	1Mt	1155
1002	MAT-08651	ELEC-13.2.42	Providing & fixing aluminium Sill with 2 track suitable for fixing of car/ landing door with necessary material like MS brackets, fasteners complete with alignment, including dismantling of existing door as applicable	1Mt	1540
1003	MAT-08652	ELEC-13.2.43	Providing & fixing landing door gate lock of superior quality with necessary adjustable operating lever complies with the relevant IS suitable for swing or collapsible type landing doors	1No	4400
1004	MAT-08653	ELEC-13.2.44	Providing & fixing landing/Car gate movable contact electrical switch of superior quality complies with the relevant IS suitable for all type of landing/car doors	1No	165
1005	MAT-08654	ELEC-13.2.45	Providing & fixing LOP with single push button with metallic top & Braille Coded suitable for UP/DN having luminous glow indicator around button with MS box & 3mm thick SS face plate with screws with UP & DN button & digital CPI (suitable for 1 digits) complete with necessary connections, including	1No	4840

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			dismantling of existing door as applicable		
1005	MAT-08655	ELEC-13.2.46	Providing & fixing LOP with two push button with metallic top & Braille coded suitable for UP/DN having luminous glow indicator around button with MS box & 3mm thick SS face plate with screws with UP & DN button & digital CPI (suitable for 2digits) complete with necessary connections, including dismantling of existing door as applicable	1No	5830
1006	MAT-08656	ELEC-13.2.47	Providing & fixing COP with push buttons having luminous glow indicator around button suitable for G+7 floors with push buttons with metallic top & Braille coded suitable for door close, door open, alarm bell, stop, light, fan, intercom etc, FPI, with MS box & 3mm thick SS face Plate with UP & DN arrows & digital FPI (suitable for 2digits) complete with necessary connections, including dismantling of existing COP as applicable	1No	17930
1007	MAT-08657	ELEC-13.2.48	Providing & fixing push button suitable with micro switch with push button on existing COP/LOP with necessary connections and testing complete including dismantling of existing button accessories as applicable	1No	1045
1008	MAT-08658	ELEC-13.2.49	Providing & fixing 40mm high fixing digital indicator module of gives indication of required shade with connections and testing complete including dismantling of existing accessories as applicable	1No	1320
1009	MAT-08659	ELEC-13.2.50	Providing & fixing car door operator motor with assembly of suitable capacity & speed with necessary pulleys & required accessories complete including dismantling of existing accessories as applicable	1No	26400
1010	MAT-08660	ELEC-13.2.51	Providing & fixing hydraulic type landing door closer suitable for swing door with necessary material complete, including dismantling of existing accessories as applicable	1No	1375
1011	MAT-08661	ELEC-13.2.52	Providing & fixing car/landing door guide shoe liner/gibes complete with necessary material like nylon coating complete including dismantling of existing accessories as applicable	1 door	660

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			CONTROLLER		
1012	MAT-08662	ELEC-13.2.53	Supplying erecting, testing & commissioning of electronic microprocessor/ PLC based collective-selective lift controller with closed loop logic suitable up to 5.5kW capacity lift duty motor without VVVF Drive and lift car travelling Gr+7 floors having manual operated doors complete erected on wall or floor made from 1.5mm thick CRCA sheet with powder coated enclosure having IP54 protection grade, including dismantling of existing accessories as applicable.	1Job	115280
1013	MAT-08663	ELEC-13.2.54	Supplying erecting, testing & commissioning of electronic microprocessor/PLC based collective-selective lift controller with closed loop logic suitable up to 5.5kW capacity lift duty motor without VVVF Drive & lift car travelling Gr+7 floors having power operated doors complete erected on wall or floor made from 1.5mm thick CRCA sheet with powder coated enclosure having IP54 protection grade. including dismantling of existing accessories as applicable	1Job	137170
1014	MAT-08664	ELEC-13.2.55	Supplying erecting, testing & commissioning of VVVF drive having provision for closed loop logic with necessary card, suitable to drive lift duty electric motor up to 5.5kW capacity to be erected in position with necessary wiring in existing control panel including dismantling of existing accessories as applicable	1Job	66990
1015	MAT-08665	ELEC-13.2.56	Supplying erecting, testing & commissioning of VVVF drive having provision for closed loop logic with necessary card, suitable to drive lift duty electric motor up to 7.5kW capacity to be erected in position with necessary wiring in existing control panel including dismantling of existing accessories as applicable	1Job	78485
1016	MAT-08666	ELEC-13.2.57	Supplying erecting, testing & commissioning of VVVF drive having provision for closed loop logic with necessary card, suitable to drive lift duty electric motor up to 10/11kW capacity to be erected in position with necessary wiring in existing control panel including dismantling of existing accessories as applicable	1Job	100320

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
1017	MAT-08667	ELEC-13.2.58	Supplying erecting, testing & commissioning of VVVF drive having provision for closed loop logic with necessary card, suitable to drive lift duty electric motor up to 15kW capacity to be erected in position with necessary wiring in existing control panel including dismantling of existing accessories as applicable	1Job	126830
1018	MAT-08668	ELEC-13.2.59	Supplying erecting, testing & commissioning of VVVF drive having provision for closed loop logic suitable to drive lift door operator motor up to 0.5/0.75kW capacity to be erected in position with necessary wiring in existing control panel including dismantling of existing accessories as applicable	1Job	26290
1019	MAT-08669	ELEC-13.2.60	Supplying erecting, testing & commissioning of rotary encoder mounted on the lift motor shaft for correct & control the positioning & direction of the lift car & providing closed loop feedback to the lift controller complete with necessary shielded data cable up to controller with necessary connectors, this job includes dismantling of existing encoder if any.	1Job	24420
1020	MAT-08670	ELEC-13.2.61	Providing & fixing inspection/maintenance box with cover of suitable size with UP/DN push buttons (with mechanical protection), stop button as per IS, mechanically protected, toggle switch for normal/inspection/maintenance mode, 6A/250V 3Pin socket & 6A piano type switch protected cover with bulb & switch having IP54 grade protection class, this job includes dismantling of existing Inspection/maintenance box if any.	1Job	1650
1021	MAT-08671	ELEC-13.2.62	Providing & fixing junction box having size of 300x300mm & height of 80mm complete with Bakelite terminal strip of 16A/500V rating with cover having IP54 grade protection class includes dismantling of existing Junction box if any. This job includes dismantling of existing inspection/maintenance box if any.	1Job	1210
1022	MAT-08672	ELEC-13.2.63	Supplying erecting, testing & commissioning of ARD panel having audio-visual indication in lift car complete with necessary SMF VRLA batteries suitable for up to 8 passenger capacity lift car including dismantling of existing accessories as applicable	1Job	86460

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
1023	MAT-08673	ELEC-13.2.64	Supplying erecting, testing & commissioning of ARD panel having audio-visual indication in lift car complete with necessary SMF VRLA batteries suitable for 9 to 12 passenger capacity lift car. Including dismantling of existing accessories as applicable	1Job	98010
1024	MAT-08674	ELEC-13.2.65	Supplying erecting, testing & commissioning of ARD panel having audio-visual indication in lift car complete with necessary SMF VRLA batteries suitable for 13 to 16 passenger capacity lift car. Including dismantling of existing accessories as applicable	1Job	111980
1025	MAT-08675	ELEC-13.2.66	Supplying erecting, testing & commissioning of ARD panel having audio-visual indication in lift car complete with necessary SMF VRLA batteries suitable for 17 to 22 passenger capacity lift car. Including dismantling of existing accessories as applicable	1Job	127600
1026	MAT-08676	ELEC-13.2.67	Supplying erecting, testing & commissioning of ARD panel having audio-visual indication in lift car complete with necessary SMF VRLA batteries suitable for 23 to 29 passenger capacity lift car. Including dismantling of existing accessories as applicable	1Job	146630
1027	MAT-08677	ELEC-13.2.68	Providing complete lift shaft wiring in copper wire/cable from main controller to car top with COP & to all landing push button panel to all landing gate locks to all floor levelling switch to main motor to brake unit & final limit switch indicator system using ISI mark single pvc insulated flexible copper wire having minimum 1.0 sq. mm size from controller to safety devices & 0.75 Sqmm size for indication system complete in PVC/GI trunking with cover for lift with manually/power operated doors travelling up to G+1 floors /2stops & 2landings for floor height up to 4.2mtrs including dismantling of existing accessories as applicable	1Job	22000
1028	MAT-08678	ELEC-13.2.69	Supplying, erecting & terminating flat flexible PVC insulated cable 4core 1.0 sq. mm copper conductor used for railing cables complete erected with PVC/wooden fastening arrangement & lugs, on wall / trunking as per specification including	1Mt	165

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			dismantling of existing accessories as applicable		
1029	MAT-08679	ELEC-13.2.70	Supplying, erecting & terminating flat flexible PVC insulated cable 12core 1.0 sq. mm copper conductor used for trailing cables complete erected with pvc/wooden fastening arrangement & lugs, on wall/ trunking as per specification including dismantling of existing accessories as applicable	1Mt	440
1030	MAT-08680	ELEC-13.2.71	Supplying, erecting, testing & commissioning programmable rope mounted Overload Warning Device (OWD) within built digital indicator complete with required wiring & accessories with audio visual indication in lift car including dismantling of existing accessories as applicable.	1Job	70180
		Note:	1.For item no 13-2-2....for 11 to 20 passenger capacity lift, add 15% to the basic cost		
			2.For item no 13-2-2....for 21 to 29 passenger capacity lift, add 25% to the basic cost		
			3.For item nos. 13-2-6 to 13-2-9 main/diverter sheave for additional groove exceeding 4nos, add 10% in the basic cost per additional groove		
			4.For item no's 13-2-33 to 13-2-35 for Stainless Steel Collapsible doors, basic cost of MS collapsible shall be doubled,Note:- This item shall be operated with prior permission in writing from the concern Superintending Engineer (Electrical).		
			5.For item no's 13-2-33 to 13-2-35, If the requirements for landing/car doors clear height above 2000mm , for Manual operated MS door panels add Rs.1,000/- per 100mm rise per landing.		
			6. For item nos. 13-2-36 to 13-2-40 the rates are for automatic landing/car door with clear height of 2000mm If the Requirements for landing/car doors clear height above 2000mm, refer add on item no. 13-1/G (b)		
			7.For item no 13-2-47- Providing & fixing additional Floor button with allied hardware		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			components on COP, add Rs. 2500/- per additional button.		
			8.For item no 13-2-53 & 13-2-54... Lift Controller for Lift car travelling 9 stops to 15 stops, add Rs. 27300/-.		
			9.For item no 13-2-53 & 13-2-54... Lift Controller for Lift car travelling 16 stops to 21 stops, Rs. 46000/-.		
			10.For item no 13-2-53 & 13-2-54...Lift Controller for PowerCircuit suitable for above 5.5kW & up to 10kW motor, add Rs.7500/-.		
			11.For item no 13-2-53 & 13-2-54... Lift Controller for PowerCircuit suitable for above 10kW & up to 15kW motor, add Rs.10900/-		
			12.For item no 13-2-68 ... For Lift Shaft Wiring in copper wire/cable, above 1st floor for lifts with manually/power operated doors, add Rs. 2500/- per floor.		
			13.The cost of dismantled material of lift parts, shall be calculated on the rate analysis based on weight density calculations of actual dismantled material e.g. mild steel/MS/GI/SS sheets, motors, copper wire, wooden parts etc.		
			14.The lift dismantled retrieved material will be handed over to agency and the calculated amount will be deducted in the bill.		
			13.3: DISMANTLING		
1031	MAT-08681	ELEC-13.3.1	Dismantling the existing 4 to 7 Passenger lift of all types travelling G+1 floors (2 Landings/2Stops) having with auto/manual operated doors for lift car & all landings with door frames, guide rails,controller, wiring buffers, Lift Machine, ropes complete with all allied accessories of Lift and making the site clear in all respect complete with refilling the holes with cement mortar & making the site as original this job includes transportation of the dismantled material upto division/section store and handing over to the section engineer/store keeper in charge	1Job	33000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			complete.		
1032	MAT-08682	ELEC-13.3.2	Dismantling the existing 8 to 12 Passenger lift of all types travelling G+1 floors (2 Landings/2Stops) having with auto/manual operated doors for lift car & all landings with door frames, guide rails,controller, wiring buffers, Lift Machine, ropes complete with all allied accessories of Lift and making the site clear in all respect complete with refilling the holes with cement mortar & making the site as original this job includes transportation of the dismantled material upto division/section store and handing over to the section engineer/store keeper in charge complete.	1Job	38500
1033	MAT-08683	ELEC-13.3.3	Dismantling the existing 13 to 17 passenger/Stretcher/Goods lift of all types travelling G+1 floors (2 Landings/2Stops) having with auto/manual operated doors for lift car & all landings with door frames, guide rails, controller, wiring buffers, Lift Machine, ropes complete with all allied accessories of Lift and making the site clear in all respect complete with refilling the holes with cement mortar & making the site as original this job includes transportation of the dismantled material up to division/section store and handing over to the section engineer/store keeper in charge complete	1Job	44000
1034	MAT-08684	ELEC-13.3.4	Dismantling the existing 18 to 22 Passenger/Stretcher/Goods lift of all types travelling G+1 floors (2 Landings/2Stops) having with auto/manual operated doors for lift car & all landings with door frames, guide rails, controller, wiring buffers, Lift Machine, ropes complete with all allied accessories of Lift and making the site clear in all respect complete with refilling the holes with cement mortar & making the site as original this job includes transportation of the dismantled material up to division/section store and handing over to the section engineer/store keeper in charge complete	1Job	46200
1035	MAT-08685	ELEC-13.3.5	Dismantling the existing 23 to 26 Passenger/Stretcher/Goods lift of all types travelling G+1 floors (2 Landings/2Stops) having with	1Job	52800

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			auto/manual operated doors for lift car & all landings with door frames, guide rails, controller, wiring buffers, Lift Machine, ropes complete with all allied accessories of Lift and making the site clear in all respect complete with refilling the holes with cement mortar & making the site as original this job includes transportation of the dismantled material up to division/section store and handing over to the section engineer/store keeper in charge complete		
1036	MAT-08686	ELEC-13.3.6	Dismantling the existing 27 to 36 Passenger/Stretcher/Goods lift of all types travelling G+1 floors (2 Landings/2Stops) having with auto/manual operated doors for lift car & all landings with door frames, guide rails, controller, wiring buffers, Lift Machine, ropes complete with all allied accessories of Lift and making the site clear in all respect complete with refilling the holes with cement mortar & making the site as original this job includes transportation of the dismantled material up to division/section store and handing over to the section engineer/store keeper in charge complete	1Job	57200
1037	MAT-08687	ELEC-13.3.7	Dismantling the 3000 to 5000KG Goods lift of all types travelling G+1Upper Floors (2 Landings/2Stops) having with auto/manual operated doors for lift car & all landings with door frames, guide rails, controller, wiring buffers, Lift Machine, ropes complete with all allied accessories of Lift and making the site clear in all respect complete with refilling the holes with cement mortar & making the site as original this job includes transportation of the dismantled material up to division/section store and handing over to the section engineer/store keeper in charge complete	1Job	59400
			Add On		
		A	If there are addition of floors for lift travelling up to six floors, add as given below		
	MAT-08688	1	For 4 to 7 passenger lift of all types	1Floor	2750
	MAT-08689	2	For 8 to 12 passenger lift of all types	1Floor	2970

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-08690	3	For 13 to 17 passenger/stretchers/goods lift of all types	1Floor	3190
	MAT-08691	4	For 18 to 23 passenger/stretchers/goods lift of all types	1Floor	3630
	MAT-08692	5	For 23 to 26 passenger/stretchers/goods lift of all types	1Floor	3740
	MAT-08693	6	For 27 to 36 passenger/stretchers/goods lift of all types	1Floor	3960
	MAT-08694	7	For 3000 to 5000Kg goods lift of all types	1Floor	4290
		A1	If there are additional floors for Lift travelling above Six floors and up to Fifteen floors Add as given below		
	MAT-08695	1	For 4 to 7 passenger lift of all types	1Floor	2970
	MAT-08696	2	For 8 to 12 passenger lift of all types	1Floor	3190
	MAT-08697	3	For 13 to 17 passenger/stretchers/goods lift of all types	1Floor	3630
	MAT-08698	4	For 18 to 23 passenger/stretchers/goods lift of all types	1Floor	3740
	MAT-08699	5	For 23 to 26 passenger/stretchers/goods lift of all types	1Floor	3960
	MAT-08700	6	For 27 to 36 passenger/stretchers/goods lift of all types	1Floor	4290
	MAT-08701	7	For 3000 to 5000Kg goods lift of all types	1Floor	4510
		A2	If there are additional floors for Lift travelling above fifteen floors and up to Twenty floors , add as given below		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-08702	1	For 4 to 7 passenger lift of all types	1Floor	3190
	MAT-08703	2	For 8 to 12 passenger lift of all types	1Floor	3630
	MAT-08704	3	For 13 to 17 passenger/stretchers/goods lift of all types	1Floor	3740
	MAT-08705	4	For 18 to 23 passenger/stretchers/goods lift of all types	1Floor	3960
	MAT-08706	5	For 23 to 26 passenger/stretchers/goods lift of all types	1Floor	4290
	MAT-08707	6	For 27 to 36 passenger/stretchers/goods lift of all types	1Floor	4510
	MAT-08708	7	For 3000 to 5000Kg goods lift of all types	1Floor	4950
		B	If there are additional set of lift car door and landing door, add		
			as given below		
	MAT-08709	1	For 4 to 7 passenger lift of all types	1Set	1980
	MAT-08710	2	For 8 to 12 passenger lift of all types	1Set	2200
	MAT-08711	3	For 13 to 17 passenger/stretchers/goods lift of all types	1Set	2310
	MAT-08712	4	For 18 to 23 passenger/stretchers/goods lift of all types	1Set	2640
	MAT-08713	5	For 23 to 26 passenger/stretchers/goods lift of all types	1Set	2310
	MAT-08714	6	For 27 to 36 passenger/stretchers/goods lift of all types	1Set	2750

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
	MAT-08715	7	For 3000 to 5000Kg goods lift of all types	1Set	3300
			MEDICAL GAS PIPE LINE SYSTEM		
1038		ELEC-14.1.1	Supply and Fixing of 2 x 20 Oxygen Main Manifold with 19 mm O.D x12 mm ID Copper Pipe mounted on Top Frame, Middle Frame and Bottom Frame, along with brass blocks, NRVs/Cylinder Valves and Pigtail Pipes of 1 mtr long of size 8 mm O.D x 3 mm I.D, duly tested at 250 Kg/Cm2 pressure. & Fully Automatic Control Panel for Oxygen. Makes: As per list of recommended brands.	Set	225000
1039		ELEC-14.1.2	Supply and Fixing of 2 x 4 Oxygen Emergency Manifold with 19 mm O.D x12 mm ID Copper Pipe mounted on Top Frame, Middle Frame and Bottom Frame, along with brass blocks, NRVs/Cylinder Valves and Pigtail Pipes of 1 mtr long of size 8 mm O.D x 3 mm I.D,duly tested at 250 Kg/Cm2 pressure. Makes: As per list of recommended brands.	Set	85000
1040		ELEC-14.1.3	Supply and Fixing of 2 x 4 Main Nitrous Oxide Manifold with 19 mm O.D x12 mm ID Copper Pipe mounted on Top Frame, Middle Frame and Bottom Frame, along with brass blocks, NRVs/Cylinder Valves and Pigtail Pipes of 1 mtr long of size 8 mm O.D x 3 mm I.D,duly tested at 250 Kg/Cm2 pressure. & Semi Automatic Control Panel for Nitrous Oxide. Makes: As per list of recommended brands.	Set	85000
1041		ELEC-14.1.4	Supply and Fixing of 2 x 1 Nitrous Oxide Emergency Manifold with Heavy Duty with 19 mm O.D x12 mm ID Copper Pipe mounted on Top Frame, Middle Frame and Bottom Frame, along with brass blocks, NRVs/Cylinder Valves and Pigtail Pipes of 1 mtr long of size 8 mm O.D x 3 mm I.D,duly tested at 250 Kg/Cm2 pressure. Makes: As per list of recommended brands.	Set	24000
1042		ELEC-14.1.5	Supply and Fixing of 15 V x 10 Model Ingersoll Rand model Twin Vacuum pump system with 2000 Ltrs Capacity Vacuum Receiver, 10 HP Motors, Starters, Filters, Vacuum Switches and other standard accessories, Twin System. Makes: As per list of recommended brands.	Set	918000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
1043		ELEC-14.1.6	Supply and Fixing of Aneste Iwata Make TFS 150 C9 Model, Compresso Two stage, Motor 15 HP & 57.18 CFM, 60 CFM Air Dryer with 2000 Ltrs Receiver Twin System. Makes: As per list of recommended brands.	Set	1140000
1044		ELEC-14.1.7	Supply and fixing of .....mm thick copper pipe thick for distribution, pipes shall be half drawn, tempered, seamless, phosphorous deoxidized, non arsenic and decreased confirming to BS 2871-1971 Part-1 (Table-X) and the chemical compositions shall be as per BS 6017 of 1981 table-2 with Lloyd Test Certification, including cost and conveyance of pipes, cost of necessary specials made of copper and suitable for a steam working pressure of 17 bar and should confirm to BS 864 with specially made for brazed socket type connections, including taxes, transportation charges including laying and jointing, testing, commissioning and all other labour charges etc. complete for finished item of work. Makes: As per list of recommended brands.		
		a	12mm O.D x 0.7 mm	Rmt	250
		b	15mm O.D x 0.9mm	Rmt	400
		c	22mm O.D x 0.9mm	Rmt	550
		d	28mm O.D x 0.9mm	Rmt	660
		e	42mm O.D x 1.2mm	Rmt	1850
		f	54mm O.D x 1.5mm	Rmt	2710
1045		ELEC-14.1.8	Supply and fixing of Isolation Valves with necessary end fittings designed for a working pressure of 300 psi / 27 inc. Hg. Vacuum, Non Ferrous, Non Lubricated with 90 degrees turn, Hand lever operated of standard make of valves including cost and conveyance of all materials, taxes, transportation charges, fixing charges and testing charges and all labour charges etc. complete for finished item of work. Makes: As per list of recommended brands.		
		a	15 mm Valves (1/2")	Each	1000
		b	22 mm Valves (3/4")	Each	550
		c	28 mm Valves (1")	Each	660
		d	42 mm Valves (1")	Each	1850
		e	54 mm Valves (2")	Each	2710
1046		ELEC-	Supply and fixing Gas Outlet Points for Oxygen	Each	1650

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
		14.1.9	with S Brackets, self ceiling brass valves with nut and cap and it should be 100% self sealing type, so that at the time of removal of probe, it should stop gas flow automatically, out let should be single hand insertion, non inter changeable for specific gas, it should accept only correct medical gas adapter. with down tube of the specific gas should be brazed with brass bracket of the outlet, there after brass bracket should be fixed in wall with the help of the steel screw, with self sealing valve which should be screwed with the front portion of brass bracket and there after it should be covered by plastic cover duly colour coded as per specific gas, design of outlet should be such that it can be installed vertically on wall, horizontally on ICCU panel and also vertical to fit in pendants including cost and conveyance of all materials, erection charges, commissioning charges and all other labour charges etc, complete for finished item of work. Makes: As per list of recommended brands.		
1047		ELEC-14.1.10	Supply and fixing of .....consisting of all necessary accessories ie pressure sensors, regulators, hand valves, pressure SWGs etc. complete including cost and conveyance of all materials, taxes, transportation charges etc. complete for finished item of work. Makes: As per list of recommended brands.		
		a	3 Gas Digital Alarm Panel	Each	28000
		b	4 Gas Digital Alarm Panel	Each	25000
1048		ELEC-14.1.11	Supply and Fixing of Oxygen Flow meters with Humidifier Bottles. Makes: As per list of recommended brands.	Each	1400
1049		ELEC-14.1.12	Supply and Fixing of Ward Vacuum Units with 600 ml Jar. Makes: As per list of recommended brands.	Each	1500
1050		ELEC-14.1.13	Supply and Fixing of Adapters for Air. Makes: As per list of recommended brands.	Each	108
1051		ELEC-14.1.14	Supply and Fixing of Adapters for Nitrous Oxide. Makes: As per list of recommended brands.	Each	108
1052		ELEC-14.1.15	Supply and Fixing of Theatre Vacuum Trolley with 2000 ml collection Jar. Makes: As per list of recommended brands.	Each	8710

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
1053		ELEC-14.1.16	Supply and Fixing of Conversion Kit for O2. Makes: As per list of recommended brands.	Each	890
1054		ELEC-14.1.17	Supply and Fixing of Conversion Kit for N2O. Makes: As per list of recommended brands.	Each	890
1055		ELEC-14.1.18	Supply and Fixing of Vacuum Tube. Makes: As per list of recommended brands.	Rmt	45
1056		ELEC-14.1.19	Supply and fixing of HP Tube. Makes: As per list of recommended brands.	Rmt	45
1057		ELEC-14.1.20	Supply and Fixing of Modular type Bed Head Wall Panel Horizontal along with supply and fixing of 4 No gas outlets and 4 No electrical sockets with switch & 1 Nurse call System of 1 Mtr Length etc., complete. Makes: As per list of recommended brands.	Each	6620
1058		ELEC-14.1.21	Supply and Fixing of Single Arm Pendent with provision for 8 gas outlets (O2 -2, N2O -2, Air -2 & Vac -2) and 6 electrical sockets with switch, 2 nos. IV Hooks, with indication lamp, should carry 90 kg weight. Makes: As per list of recommended brands.	Each	125000
			STP & ETP WORKS (ELECTRO-MECHANICAL ITEMS)		
1059		ELEC-14.2.1	Supply and fixing, testing and commissioning of Manual Coarse Bar Screen Size: To Suit 400mm Wide x 200mm Liquid Height Clear Opening of Screen: 25mm Size of Flat: 50mm x 6mm Angle of Inclination: 60 Degree Shape of Screen: Curved Top Accessories: Rake & 2 Nos. Side Plate MOC: SS 304 including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	32000
1060		ELEC-14.2.2	Supply and fixing, testing and commissioning of Manual Coarse Bar Screen Size: To Suit 600mm Wide x 200mm Liquid Height Clear Opening of Screen: 25mm Size of Flat: 50mm x 6mm Angle of Inclination: 60 Degree	Each	40000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Shape of Screen: Curved Top Accessories: Rake & 2 Nos. Side Plate MOC: SS 304 including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.		
1061		ELEC-14.2.3	Supply and fixing, testing and commissioning of Manual Fine Bar Screen Size: To Suit 300mm Wide x 200mm Liquid Height Clear Opening of Screen: 10mm Size of Flat: 50mm x 6mm Angle of Inclination: 45 Degree Shape of Screen: Curved Top Accessories: Rake MOC: SS 304 including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	44000
1062		ELEC-14.2.4	Supply and fixing, testing and commissioning of Manual Fine Bar Screen Size: To Suit 500mm Wide x 200mm Liquid Height Clear Opening of Screen: 10mm Size of Flat: 50mm x 6mm Angle of Inclination: 45 Degree Shape of Screen: Curved Top Accessories: Rake MOC: SS 304 including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	40000
1063		ELEC-14.2.5	Supply and fixing, testing and commissioning of Mechanical Fine Bar Screen Size: To Suit 500mm Wide x 200mm Liquid Height (700mm Total Height) Clear Opening of Screen: 6mm Size of Flat: 50mm x 3mm Angle of Inclination: 75 Degree Type of Screen: Fixed Bar, Mechanically Raked Screen Accessories: Discharge Chute	Each	130000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			MOC of All Wetted Parts : SS 304 including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.		
1064		ELEC-14.2.6	Supply and fixing, testing and commissioning of Slotted Pipe Oil Skimmer Size: To Suit 750mm Wide Oil & Grease Trap Size of Slotted Pipe: 200mm Dia Type of Operation: Manual Hand Wheel MOC of All Wetted Parts : SS 304 including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	85000
1065		ELEC-14.2.7	Supply and fixing, testing and commissioning of Slotted Pipe Oil Skimmer Size: To Suit 750mm Wide Oil & Grease Trap Size of Slotted Pipe: 200mm Dia Type of Operation: Manual Hand Wheel MOC of All Wetted Parts : SS 304 including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	85000
1066		ELEC-14.2.8	Supply and fixing, testing and commissioning of Slotted Pipe Oil Skimmer Size: To Suit 2000mm Wide Oil & Grease Trap Size of Slotted Pipe: 200mm Dia Type of Operation: Manual Hand Wheel MOC of All Wetted Parts : SS 304 including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	130000
1067		ELEC-14.2.9	Supply and fixing, testing and commissioning of Equalisation Tank Blower Capacity of Blower: 50m ³ /Hr @ 5.5 MWC Type of Blower: Twin Lobe MOC of Blower: CI Speed of Blower : Less than 1000 RPM Speed of Blower Motor: 1440 RPM	Each	75000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			The Blower shall be complete with Blower & Motor mounted on a common base frame, belt drive, belt guard, Suction & Discharge Silencer, Air Filter, Safety Valve, NRV, etc., complete. including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.		
1068		ELEC-14.2.10	Supply and fixing, testing and commissioning of Equalisation Tank Blower Capacity of Blower: 180m ³ /Hr @ 5.5 MWC Type of Blower: Twin Lobe MOC of Blower: CI Speed of Blower : Less than 1000 RPM Speed of Blower Motor: 1440 RPM The Blower shall be complete with Blower & Motor mounted on a common base frame, belt drive, belt guard, Suction & Discharge Silencer, Air Filter, Safety Valve, NRV, etc., complete. including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	170000
1069		ELEC-14.2.11	PH METER :- supply and Fixing of PH meter PO 650 ph/ orp with push button type for physical dimensions 105x105x130mm cut out size 92x92mm enclosure ABS weather proof IP-65 calibration /set point ,Sensor dimension 140mmx32mm ,Flow throw . It including cost and conveyance , all taxes specification Provided at the outlet of Sewerage treated water sump it including all taxes as directed by Engineer-in-charge . Makes: As per list of recommended brands.	Each	19000
1070		ELEC-14.2.12	Supply and fixing, testing and commissioning of Coarse Bubble Diffusers Type: Disc Diffuser Size: 80mm Dia MOC: EPDM including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	750

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
1071		ELEC-14.2.13	Supply and fixing, testing and commissioning of Fine Bubble Diffusers Type: Tubular Size: 1.0m Long x 90 Dia MOC: EPDM including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	2000
1072		ELEC-14.2.14	Supply and fixing, testing and commissioning of Equalisation Effluent/ Sewage Pump Capacity of Pump: 4.00 Cu.m/Hr @ 6m Head Type of Pump: Non Clog Vertical Submersible Solid Handling Size: 10mm Impeller Type: Non Clog MOC of Casing: CI MOC of Impeller: CI Accessories: Auto Coupling, SS304 Lifting Chain, SS Guide Pipe, Control Panel with Level Switches for auto Start & Stop including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	57000
1073		ELEC-14.2.15	Supply and fixing, testing and commissioning of Equalisation Effluent/Sewage Pump Capacity of Pump: 15 Cu.m/Hr @ 6m Head Type of Pump: Non Clog Vertical Submersible Solid Handling Size: 80mm Impeller Type: Non Clog MOC of Casing: CI MOC of Impeller: CI Accessories: Auto Coupling, SS304 Lifting Chain, SS Guide Pipe, Control Panel with Level Switches for auto Start & Stop including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	70132
1074		ELEC-14.2.16	Supply and fixing, testing and commissioning of Equalisation Effluent/ Sewage Pump Capacity of Pump: 25 Cu.m/Hr @ 6m Head Type of Pump: Non Clog Vertical Submersible	Each	85000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Solid Handling Size: 80mm Impeller Type: Non Clog MOC of Casing: CI MOC of Impeller: CI Accessories: Auto Coupling, SS304 Lifting Chain, SS Guide Pipe, Control Panel with Level Switches for auto Start & Stop including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.		
1075		ELEC-14.2.17	Supply and fixing, testing and commissioning of Equalisation Effluent/ Sewage Pump Capacity of Pump: 32.5 Cu.m/Hr @ 6m Head Type of Pump: Non Clog Vertical Submersible Solid Handling Size: 80mm Impeller Type: Non Clog MOC of Casing: CI MOC of Impeller: CI Accessories: Auto Coupling, SS304 Lifting Chain, SS Guide Pipe, Control Panel with Level Switches for auto Start & Stop including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	100000
1076		ELEC-14.2.18	Supply and fixing, testing and commissioning of Mixer for Anoxic Tank Type: Turbine Type RPM of Mixer: 50 MOC of Shaft & Blades: SS 304 Motor KW: 1.1 including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Nos	75000
1077		ELEC-14.2.19	Supply and fixing, testing and commissioning of Mixer for Anoxic Tank Size: To Suit 2.275 x 2.0 x 4.5m LD (5.0m TD) Type: Turbine Type RPM of Mixer: 100 MOC of Shaft & Blades: SS 304 Motor KW: 1.1	Each	95000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.		
1078		ELEC-14.2.20	Supply and fixing, testing and commissioning of Aeration Blower Capacity of Blower: 120Nm ³ /Hr @ 5.5 MWC Type of Blower: Twin Lobe MOC of Blower: CI Speed of Blower : Less than 1000 RPM Speed of Blower Motor: 1440 RPM The Blower shall be complete with Blower & Motor mounted on a common base frame, belt drive, belt guard, Suction & Discharge Silencer, Air Filter, Safety Valve, NRV, etc., complete. including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	160000
1079		ELEC-14.2.21	Supply and fixing, testing and commissioning of Aeration Blower Capacity of Blower: 504Nm ³ /Hr @ 5.5 MWC Type of Blower: Twin Lobe MOC of Blower: CI Speed of Blower : Less than 1000 RPM Speed of Blower Motor: 1440 RPM The Blower shall be complete with Blower & Motor mounted on a common base frame, belt drive, belt guard, Suction & Discharge Silencer, Air Filter, Safety Valve, NRV, etc., complete. including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	285000
1080		ELEC-14.2.22	Supply and fixing, testing and commissioning of Air Piping from Blower upto Diffusers for Equalisation Tank Blower & Aeration Blower MOC of Exposed Pipes: SS 304 MOC of Vertical Drops: SS 304 MOC of Under Water pipes: SS 304 MOC of Guide Pipe & Lifting Chain: SS 304 The Air Piping shall be complete with Individual blower delivery piping with NRV, Diaphragm Valve,	ONE KG	450

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			<p>Main Header Piping from the Blower delivery up to equ tank/aeration tank including drop/vertical piping, header along the tank, vertical drop pipes with control valve & dismantling type joint, diffuser header pipe & laterals with nozzles for diffuser, end cap, vertical guide pipe at the other end of diffuser header, lifting chain, etc., complete. The design of piping shall be such that it should be possible to remove diffusers from the tanks without emptying tank & shutting off the system. The arrangement shall be that the we should be able to take out the Vertical drop pipe & the diffuser header just by dismantling the joint in the vertical drop pipe and should be able to refix the same in position.</p> <p>Pipe Sizes: As per Diffuser Manufacturer recommendations.</p> <p>The Contractor has to provide detailed air piping calc for the air pipes from the diffuser supplier to match the specified blower. Battery Limit: Form Flange of Blowers till diffuser</p> <p>The Piping cost is inclusive all necessary materials required for the piping like pipes, fittings, adopters, flanges, fasteners, pipe supports, clamps, valves, labour charges for fabrication, erection, pressure testing, etc., complete.</p> <p>including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.</p>		
1081		ELEC-14.2.23	<p>Supply and fixing, testing and commissioning of Air Piping from Blower upto Diffusers for Equalisation Tank Blower & Aeration Blower</p> <p>MOC of Exposed Pipes: SS 304</p> <p>MOC of Vertical Drops: SS 304</p> <p>MOC of Under Water pipes: SS 304</p> <p>MOC of Guide Pipe & Lifting Chain: SS 304</p> <p>The Air Piping shall be complete with Individual blower delivery piping with NRV, Diaphragm Valve, Main Header Piping from the Blower delivery up to equ tank/aeration tank including drop/vertical piping, header along the tank, vertical drop pipes with control valve & dismantling type joint, diffuser header pipe & laterals with nozzles for diffuser, end cap, vertical guide pipe at the other end of diffuser</p>	ONE KG	340

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			<p>header, lifting chain, etc., complete. The design of piping shall be such that it should be possible to remove diffusers from the tanks without emptying tank & shutting off the system. The arrangement shall be that the we should be able to take out the Vertical drop pipe & the diffuser header just by dismantling the joint in the vertical drop pipe and should be able to refix the same in position.</p> <p>Pipe Sizes: As per Diffuser Manufacturer recommendations.</p> <p>The Contractor has to provide detailed air piping calc for the air pipes from the diffuser supplier to match the specified blower. Battery Limit: Form Flange of Blowers till diffuser</p> <p>The Piping cost is inclusive all necessary materials required for the piping like pipes, fittings, adopters, flanges, fasteners, pipe supports, clamps, valves, labour charges for fabrication, erection, pressure testing, etc., complete.</p> <p>including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.</p>		
1082		ELEC-14.2.24	<p>Supply, Transportation and fixing, testing and commissioning of Media for MBBR (Moving Bed Bio-Reactor) Tank</p> <p>Volume of Media: Cu.m</p> <p>Shape of Media: Conical Frustum</p> <p>Surface Area:300-400 m²/m³ of media</p> <p>Structure: Cylindrical with Fins</p> <p>Sp Gravity: 0.9 to 0.95</p> <p>MOC: P P UV Stabilised</p> <p>No.of Pieces 50,000-70000 No/Cu.Mt</p> <p>Weight per Cum 95 to 100 Kgs</p> <p>including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.</p>	CUM	8352
1083		ELEC-14.2.25	<p>Supply and fixing, testing and commissioning of Internal Recirculation Pump</p> <p>Capacity of Pump: 1 Cu.m/Hr @ 5m Head</p> <p>Type of Pump: Non Clog Vertical Submersible</p> <p>Solid Handling Size: 10mm</p> <p>Impeller Type: Non Clog</p>	Nos	57000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			<p>MOC of Casing: CI MOC of Impeller: CI Accessories: Auto Coupling, SS304 Lifting Chain, SS Guide Pipe, Control Panel with Level Switches for auto Start & Stop including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Final payment after Lab Testing treated water satisfying the following parameters BOD less than 20, COD less than 50. Makes: As per list of recommended brands.</p>		
1084		ELEC-14.2.26	<p>Supply and fixing, testing and commissioning of Internal Recirculation Pump Capacity of Pump: 15 Cu.m/Hr @ 3m Head Type of Pump: Non Clog Vertical Submersible Solid Handling Size: 80mm Impeller Type: Non Clog MOC of Casing: CI MOC of Impeller: CI Accessories: Auto Coupling, SS304 Lifting Chain, SS Guide Pipe, Control Panel with Level Switches for auto Start & Stop including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Final payment after Lab Testing treated water satisfying the following parameters BOD less than 5, COD less than 10. Makes: As per list of recommended brands.</p>	Each	65000
1085		ELEC-14.2.27	<p>Supply and fixing, testing and commissioning of Internal Recirculation Pump Capacity of Pump: 50.00 Cu.m/Hr @ 3m Head Type of Pump: Non Clog Vertical Submersible Solid Handling Size: 80mm Impeller Type: Non Clog MOC of Casing: CI MOC of Impeller: CI Accessories: Auto Coupling, SS304 Lifting Chain, SS Guide Pipe, Control Panel with Level Switches for auto Start & Stop including all incidental and operational charges etc,</p>	Each	110000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Final payment after Lab Testing treated water satisfying the following parameters BOD less than 5, COD less than 10. Makes: As per list of recommended brands.		
1086		ELEC-14.2.28	Supply and fixing, testing and commissioning of Internal Recirculation Pump Capacity of Pump: 62.5 Cu.m/Hr @ 3m Head Type of Pump: Non Clog Vertical Submersible Solid Handling Size: 80mm Impeller Type: Non Clog MOC of Casing: CI MOC of Impeller: CI Accessories: Auto Coupling, SS304 Lifting Chain, SS Guide Pipe, Control Panel with Level Switches for auto Start & Stop including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Final payment after Lab Testing treated water satisfying the following parameters BOD less than 5, COD less than 10. Makes: As per list of recommended brands.	Each	130000
1087		ELEC-14.2.29	Supply and fixing, testing and commissioning of Secondary Clarifier To Suit: 3.0 m x 3.0 m x2.50m SWD (0.5m FB) Sq Clarifier. Floor Slope: 1 in 12 Free Board: 0.5m The Clarifier shall be to suit the Civil Tank (As per the attached GA Drg).The Launder top will be finished to true level to ensure uniform overflow to avoid overflow weirs. The clarifier shall be complete with Mechanical Bridge/Platform spanning across the tank with GI Grating & Handrails for the entire length, Feed Well, Central Drive mechanism, Centre shaft, scrapper arm with neoprene squeezes, sludge pit cone scrapper, etc., complete. MOC: MSEP + GI Gratings + GI Handrails including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of	Each	225000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			work. Makes: As per list of recommended brands.		
1088		ELEC-14.2.30	<p>Supply and fixing, testing and commissioning of Secondary Clarifier To Suit: 5.0 m x 5.0 m x 3.50m SWD (0.5m FB) Sq Clarifier. Floor Slope: 1 in 12 Free Board: 0.5m The Clarifier shall be to suit the Civil Tank (As per the attached GA Drg). The Launder top will be finished to true level to ensure uniform overflow to avoid overflow weirs. The clarifier shall be complete with Mechanical Bridge/Platform spanning across the tank with GI Grating & Handrails for the entire length, Feed Well, Central Drive mechanism, Centre shaft, scrapper arm with neoprene squeezes, sludge pit cone scrapper, etc., complete. MOC: MSEP + GI Gratings + GI Handrails including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.</p>	Each	350000
1089		ELEC-14.2.31	<p>Supply and fixing, testing and commissioning of Secondary Clarifier To Suit: 9.1m x 9.1m x 3.0m SWD (0.5m FB) Sq Clarifier. Floor Slope: 1 in 12 Free Board: 0.5m The Clarifier shall be to suit the Civil Tank (As per the attached GA Drg). The Launder top will be finished to true level to ensure uniform overflow to avoid overflow weirs. Mechanical Bridge/Platform spanning across the tank with GI Grating & Handrails for the entire length, Feed Well, Central Drive mechanism, Centre shaft, scrapper arm with neoprene squeezes, sludge pit cone scrapper, etc., complete. MOC: MSEP + GI Gratings + GI Handrails including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.</p>	Each	400000
1090		ELEC -	Supply and fixing, testing and commissioning of	Nos	35000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
		14.2.32	Sludge Pump Capacity of Pump : 1 Cu.m/Hr @ 5m Head Type of Pump: Horizontal Centrifugal Impeller Type: Non Clog MOC of Impeller: CI including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item. Makes: As per list of recommended brands.		
1091		ELEC-14.2.33	Supply and fixing, testing and commissioning of Sludge Pump Capacity of Pump: 25 Cu.m/Hr @ 3m Head Type of Pump: Horizontal Centrifugal Impeller Type: Non Clog MOC of Casing: CI MOC of Impeller: CI including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	72240
1092		ELEC-14.2.34	Supply and fixing, testing and commissioning of Sludge Pump Capacity of Pump: 32 Cu.m/Hr @ 3m Head Type of Pump: Horizontal Centrifugal Impeller Type: Non Clog MOC of Casing: CI MOC of Impeller: CI including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	100000
1093		ELEC-14.2.35	Supply and fixing, testing and commissioning of UV Disinfection System Flow: 25 Cu.m/Hr. Type of Flow: Gravity Type: UV Lamp covered with Quartz Glass MOC of Enclosure: SS 304 Accessories: Control Panel including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	200000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
1094		ELEC-14.2.36	Supply and fixing, testing and commissioning of UV Disinfection System Flow: 32 Cu.m/Hr. Type of Flow: Gravity Type: UV Lamp covered with Quartz Glass MOC of Enclosure: SS 304 Accessories: Control Panel including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	225000
1095		ELEC - 14.2.37	Supply and fixing, testing and commissioning of Filter Feed Pump Capacity of Pump: 5 Cu.m/Hr @ 20m Head Type of Pump: Horizontal Centrifugal Impeller Type: Closed MOC of Casing: CI MOC of Impeller: CI including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Nos.	30000
1096		ELEC-14.2.38	Supply and fixing, testing and commissioning of Filter Feed Pump Capacity of Pump: 25 Cu.m/Hr @ 30m Head Type of Pump: Horizontal Centrifugal Impeller Type: Semi Open MOC of Casing: CI MOC of Impeller: CI including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	90000
1097		ELEC-14.2.39	Supply and fixing, testing and commissioning of Filter Feed Pump Capacity of Pump: 33.5 Cu.m/Hr @ 30m Head Type of Pump: Horizontal Centrifugal Impeller Type: Semi Open MOC of Casing: CI MOC of Impeller: CI including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	110000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
1098		ELEC-14.2.40	Supply and fixing, testing and commissioning of Pressure Sand Filter Capacity of Filter: 7.50 Cu.m/Hr. Minimum Dia of Filter: 0.90m Minimum HOS of Filter: 1.8m Minimum Height of Filter Sand: 0.30m Minimum Plate Thickness for Shell & Dish: 6mm Type of Underdrain: Nozzle Plate with Plastic Nozzles Type of Inlet: Inlet Distribution Box/ Bell Mouth. Specification for Filter Media: As per CPHEEO Manual Accessories: Frontal Piping & Valves. including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	100000
1099		ELEC-14.2.41	Supply and fixing, testing and commissioning of Pressure Sand Filter Capacity of Filter: 32.50 Cu.m/Hr. Minimum Dia of Filter: 1.8m Minimum HOS of Filter: 1.5m Minimum Height of Filter Sand: 0.75m Minimum Plate Thickness for Shell & Dish: 6mm Type of Underdrain: Nozzle Plate with Plastic Nozzles Type of Inlet: Inlet Distribution Box/ Bell Mouth. Specification for Filter Media: As per CPHEEO Manual MOC of Filter: MSEP Accessories: Frontal Piping & Valves. including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	180000
1100		ELEC-14.2.42	Supply and fixing, testing and commissioning of Activated Carbon Filter Capacity of Filter: 7.50 Cu.m/Hr. Minimum Dia of Filter: 0.70m Minimum HOS of Filter: 1.8m Minimum Height of Activated Carbon: 0.30m Minimum Plate Thickness for Shell & Dish: 6mm Type of Underdrain: Nozzle Plate with Plastic Nozzles	Each	180000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Type of Inlet: Inlet Distribution Box. Type of Activated Carbon: Coal Based/Coconut shell Minimum Iodine Value for Activated Carbon: 1000 MOC of Filter: MSEP Accessories: Frontal Piping & Valves. including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.		
1101		ELEC-14.2.43	Supply and fixing, testing and commissioning of Activated Carbon Filter Capacity of Filter: 32.50 Cu.m/Hr. Minimum Dia of Filter: 1.90m Minimum HOS of Filter: 1.5m Minimum Height of Activated Carbon: 0.75m Minimum Plate Thickness for Shell & Dish: 6mm Type of Underdrain: Nozzle Plate with Plastic Nozzles Type of Inlet: Inlet Distribution Box. Type of Activated Carbon: Coal Based/Coconut shell Minimum Iodine Value for Activated Carbon: 1000 MOC of Filter: MSEP Accessories: Frontal Piping & Valves. including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	300000
1102		ELEC-14.2.44	Supply and fixing, testing and commissioning of Hypochlorite solution dosing System Dosing System shall be complete with 1 No. - 100 Lit Capacity HDPE Tank with Inlet & Outlet Connections, Level Indicator Dosing Pump, 0 - 5 LPH Capacity, 2 Nos. Complete Flexible Tubing with Valves, NRV's, Strainers, etc., from Dosing Tank to dosing Point including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	System	40000
1103		ELEC-14.2.45	Supply and fixing, testing and commissioning of FeCl3 solution dosing System Dosing System shall be complete with 1 No. - 50 Lit Capacity HDPE Tank with Inlet & Outlet Connections, Level Indicator 1 No. - Agitator to suit 50 Lit HDPE tank of SS 304 MOC,	System	25000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			100 RPM speed. Dosing Pump, 0 - 6 LPH Capacity, 2 Nos. Complete Flexible Tubing with Valves, NRV's, Strainers, etc., from Dosing Tank to dosing Point including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.		
1104		ELEC - 14.2.46	Supply and fixing, testing and commissioning of Treated Water Pump Capacity of Pump: 5 Cu.m/Hr @ 20m Head Type of Pump: Horizontal Centrifugal Impeller Type: Closed MOC of Casing: CI MOC of Impeller: CI including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Nos	35000
1105		ELEC- 14.2.47	Supply and fixing, testing and commissioning of Treated Water Pump Capacity of Pump: 15 Cu.m/Hr @ 20m Head Type of Pump: Horizontal Centrifugal Impeller Type: Semi Open MOC of Casing: CI MOC of Impeller: CI including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	72308
1106		ELEC- 14.2.48	Supply and fixing, testing and commissioning of Treated Water Pump Capacity of Pump: 32 Cu.m/Hr @ 30m Head Type of Pump: Horizontal Centrifugal Impeller Type: Semi Open MOC of Casing: CI MOC of Impeller: CI including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	80000
1107		ELEC- 14.2.49	Supply and fixing, testing and commissioning of Filter Press Feed Pump Capacity of Pump: 1	Each	50000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Cu.m/Hr @ 20m Head Type of Pump: Screw Pump Impeller Type: Screw MOC of Casing: CI MOC of stator : Nitrile MOC of rotor : SS 304 including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.		
1108		ELEC-14.2.50	Supply and fixing, testing and commissioning of Manual Plate Filter Press Size of Plate: 610 x 610mm No. of Chambers: 8 Chamber Operation: Hydraulic Pump Capacity: For Dewatering of 2 Cu.m/Day, 3% Sludge in 10Hour including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	125000
1109		ELEC-14.2.51	Supply and fixing, testing and commissioning of Manual Plate Filter Press Size of Plate: 610 x 610mm No. of Chambers: 16 Chamber Operation: Hydraulic Pump Capacity: For Dewatering of 5 Cu.m/Day, 3% Sludge in 12 Hour including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	250000
1110		ELEC-14.2.52	Supply and fixing, testing and commissioning of Dewatering PE solution dosing System Dosing System shall be complete with 2 Nos. - 50 Lit Capacity HDPE Tank with Inlet & Outlet Connections, Level Indicator. 2 Nos. - Agitator to suit 100 Lit HDPE tank of SS 304 MOC, 100 RPM speed. Complete Flexible Tubing with Valves, NRV's, Strainers, etc., from Dosing Tank to dosing Point including all incidental and operational charges etc, as per approved drawings and as directed by	System	65000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.		
1111		ELEC-14.2.53	Supply and fixing, testing and commissioning of Jib Crane for Lifting of Submersible Pumps Capacity : 0.5 Ton Min Clear Height: 2.50m to the Bottom of the Hook (From Base plate). Degree of Rotation: 360 Degrees. Length of Boom: 2.0m to the Centre of Lifting Hook from the centre of mast. Rotating Operation: Manual Accessories Reqd: 0.5 Ton Capacity Chain Pulley Block with Lifting Chain of 9.0m + Trolley of reputed make. Mast section: Circular Mast of required Height Method of Installation: By Welding to Fish Plate embedded in concrete. including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	Each	120000
1112		ELEC-14.2.54	Supply and fixing, testing and commissioning of Tube Settler Media for Settling tank Volume of Media: 48 Cu.m Shape of Media: Vertical Plate Structure: Sheet with locking arrangement MOC: PVC No.of Pieces 150 per Cum (Size 1 Mtr x 0.5) including all incidental and operational charges etc, as per approved drawings and as directed by Engineer-in-charge complete for finished item of work. Makes: As per list of recommended brands.	CUM	8120
1113		ELEC-14.2.55	Supplying, Laying, Testing & Commissioning of Piping from Last Manhole to Coarse Screen Chamber.....complete piping for the MLD E&STP to match the P & ID and to match the layout, using suitable material pipes of approved makes conforming to IS, including pipe specials like bends of suitable degree, elbow, tee, union/flanges, valves, fasteners, Cutting the pipes to requirement, making joints with pipe specials, earth work excavation, laying, refilling as required, or in pipe supports including its foundation, pipe supports, clamping system, etc., Conducting wet run, rectifying the leaks if any in laid pipe work, etc, complete with valves as applicable. Battery Limits: From Head Manhole near the STP-I (Approx. 15m), piping for Treated Water Pump for a length of 100m from the STP		

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			boundary. The complete piping within the E&STP area shall be contractor's scope. Makes: As per list of recommended brands.		
		a	100 Dia PVC 10 KSC Pipe	1 RM	650
		b	300 Dia PVC 10 KSC Pipe	1 RM	1050
1114		ELEC-14.2.56	Supplying, Laying, Testing & Commissioning of Delivery Piping with Valves & NRV for Raw Effluent/Sewage Pump up to Inlet Chamber.....complete piping for the MLD E&STP to match the P & ID and to match the layout, using suitable material pipes of approved makes conforming to IS, including pipe specials like bends of suitable degree, elbow, tee, union/flanges, values, fasteners, Cutting the pipes to requirement, making joints with pipe specials, earth work excavation, laying, refilling as required, or in pipe supports including its foundation, pipe supports, clamping system, etc., Conducting wet run, rectifying the leaks if any in laid pipe work, etc, complete with valves as applicable. Battery Limits: From Head Manhole near the STP-I (Approx. 15m), piping for Treated Water Pump for a length of 100m from the STP boundary. The complete piping within the E&STP area shall be contractor's scope. Makes: As per list of recommended brands.		
		a	80 NB - DI Pipe	1 RM	750
		b	100 NB - DI Pipe	1 RM	900
1115		ELEC-14.2.57	Supplying, Laying, Testing & Commissioning of Delivery Piping with Valves & NRV for Equ Effluent/ Sewage Pump up to Anoxic Tank - 80 NB - uPVC Sch 40 Pipe complete piping for the MLD E&STP to match the P & ID and to match the layout, using suitable material pipes of approved makes conforming to IS, including pipe specials like bends of suitable degree, elbow, tee, union/flanges, values, fasteners, Cutting the pipes to requirement, making joints with pipe specials, earth work excavation, laying, refilling as required, or in pipe supports including its foundation, pipe supports, clamping system, etc., Conducting wet run, rectifying the leaks if any in laid pipe work, etc, complete with valves as applicable. Battery Limits: From Head Manhole near the STP-I (Approx. 15m), piping for Treated Water Pump for a length of 100m from the STP boundary. The complete piping within the E&STP area shall be contractor's scope. Makes: As per list of recommended brands.	1 RM	750

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
1116		ELEC-14.2.58	Supplying, Laying, Testing & Commissioning of Delivery Piping with Valves & NRV for Internal Recirculation Pump up to Inlet of Anoxic Tank.....complete piping for the MLD E&STP to match the P & ID and to match the layout, using suitable material pipes of approved makes conforming to IS, including pipe specials like bends of suitable degree, elbow, tee, union/flanges, valves, fasteners, Cutting the pipes to requirement, making joints with pipe specials, earth work excavation, laying, refilling as required, or in pipe supports including its foundation, pipe supports, clamping system, etc., Conducting wet run, rectifying the leaks if any in laid pipe work, etc, complete with valves as applicable. Battery Limits: From Head Manhole near the STP-I (Approx. 15m), piping for Treated Water Pump for a length of 100m from the STP boundary. The complete piping within the E&STP area shall be contractor's scope. Makes: As per list of recommended brands.		
		a	80 NB - uPVC Sch 40 Pipe	1 RM	750
		b	100 NB - uPVC Sch 40 Pipe	1 RM	950
1117		ELEC-14.2.59	Supplying, Laying, Testing & Commissioning of Piping from Sec Clarifier Launder Outlet to Filter Feed Tank through UV disinfection module.....complete piping for the MLD E&STP to match the P & ID and to match the layout, using suitable material pipes of approved makes conforming to IS, including pipe specials like bends of suitable degree, elbow, tee, union/flanges, valves, fasteners, Cutting the pipes to requirement, making joints with pipe specials, earth work excavation, laying, refilling as required, or in pipe supports including its foundation, pipe supports, clamping system, etc., Conducting wet run, rectifying the leaks if any in laid pipe work, etc, complete with valves as applicable. Battery Limits: From Head Manhole near the STP-I (Approx. 15m), piping for Treated Water Pump for a length of 100m from the STP boundary. The complete piping within the E&STP area shall be contractor's scope. Makes: As per list of recommended brands.		
		a	80 NB uPVC Sch 40 Pipe	1 RM	750
		b	125 NB uPVC Sch 40 Pipe	1 RM	1150
1118		ELEC-14.2.60	Supplying, Laying, Testing & Commissioning of Filter Feed Pump Suction (Dual Suction, one from Filter Feed Tank & second from UF Feed Tank) and Delivery Piping with valves, NRV, up to frontal piping of PSF & ACF - 80 NB uPVC Sch 40 Pipe complete piping for the MLD E&STP to match the P & ID and to match the layout, using suitable material pipes of approved makes conforming to IS, including pipe specials like bends of suitable degree, elbow, tee,	1 RM	750

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			union/flanges, valves, fasteners, Cutting the pipes to requirement, making joints with pipe specials, earth work excavation, laying, refilling as required, or in pipe supports including its foundation, pipe supports, clamping system, etc., Conducting wet run, rectifying the leaks if any in laid pipe work, etc, complete with valves as applicable. Battery Limits: From Head Manhole near the STP-I (Approx. 15m), piping for Treated Water Pump for a length of 100m from the STP boundary. The complete piping within the E&STP area shall be contractor's scope. Makes: As per list of recommended brands.		
1119		ELEC-14.2.61	Supplying, Laying, Testing & Commissioning of Filter Feed Pump Suction (Dual Suction, one from Filter Feed Tank & second from UF Feed Tank) and Delivery Piping with valves, NRV, up to frontal piping of PSF & ACF.....complete piping for the MLD E&STP to match the P & ID and to match the layout, using suitable material pipes of approved makes conforming to IS, including pipe specials like bends of suitable degree, elbow, tee, union/flanges, valves, fasteners, Cutting the pipes to requirement, making joints with pipe specials, earth work excavation, laying, refilling as required, or in pipe supports including its foundation, pipe supports, clamping system, etc., Conducting wet run, rectifying the leaks if any in laid pipe work, etc, complete with valves as applicable. Battery Limits: From Head Manhole near the STP-I (Approx. 15m), piping for Treated Water Pump for a length of 100m from the STP boundary. The complete piping within the E&STP area shall be contractor's scope. Makes: As per list of recommended brands.		
		a	65 NB - uPVC Sch 40 Pipe	1 RM	650
		b	80 NB - uPVC Sch 40 Pipe	1 RM	750
1120		ELEC-14.2.62	SITC of DO Meter of approved make with interconnection wiring for auto switching on and off of Blowers, based on the DO Levels of the aeration tank. Makes: As per list of recommended brands.	Each	50000
1121		ELEC-14.2.63	SITC of 50 Dia Electro Magnetic Flow Meter with local & remote indication panel with totaliser, including wiring between instrument & remote indicator, power supply wiring, etc., complete. Makes: As per list of recommended brands.	Each	50000
1122		ELEC-14.2.64	Supply, installation, testing and commissioning of Bourden type, stainless steel dial type pressure gauge with isolation valve and pipe having	Each	606

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			calibration of 0-16 kg/cm ² . Makes: As per list of recommended brands.		
			BUILDING MANAGEMENT SYSTEMS		
1123		ELEC-14.3.1	Supply, Installation, Testing & Commissioning of BMS server with following latest Intel microprocessor Xeon or higher processor, 2.7 to 3.0Ghz or above clock speed, 16 GB expandable up to 32GB DDR 4 RAM,HDD - 1TB SATA, R/W CD / DVD drive, Flat Monitor - 32" LED, Serial Ports - 2 Nos, USB Ports - 4 Nos, Network Card 10/100/1000MB, Graphics card 1GB, Windows Operating System-Higher version, MS office suite Anti virus, Optical mouse & key board etc.as per detailed technical specifications and approved make including all charges complete etc as directed by Engineer In charge/ departmental authorities. Makes : As per list of recommended brands.	Set	395000
1124		ELEC-14.3.2	Supply, Installation, Testing & Commissioning of BMS Client Workstation with following Latest Intel microprocessor i7 / higher , 2.7 to 3.0Ghz or above clock speed, 8GB expandable up to 32GB DDR 4 RAM, HDD - 1TB SATA ,R/W CD / DVD drive, Flat Monitor - 32" LED, Serial Ports - 2 Nos. USB Ports - 4 Nos with at least 2 NOs USB 3.0 Ports, Network Card 10/100/1000MB - 2 Nosography card 1GB,Windows 10 Operating System / Higher, MS office suite Anti virus, Optical mouse & key board etc.as per detailed technical specifications and approved. Makes : As per list of recommended brands.	Set	95000
1125		ELEC-14.3.3	Supply, Installation, Testing & Commissioning of Building Control System Software - MAIN BMS SERVER SOFTWARE, of the following windows based graphical software for IBMS system with 1No Client for Operator workstation, 1No Client for Engineer workstation. The Software shall have 3D & HD vector dynamic graphics with Autocad import of plan with Zoom In & Zoom Out facility, Native 64 Bit System , BTL,UL,EN Certified System, BACnet Profile B-AWS (Advanced workstation) as per the BTL Listing, dot net platform, Certified OPC DA Server by OPC Foundation, Web-Based Server	Set	650000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			software shall permit use of Standard Web-Browsers such as Microsoft Internet Explorer, Chrome, Firefox, Netscape Navigator, etc. The Software shall comply to international standards and strive to deliver products that meet security standards such as ISA/IEC 62443, UL2900, ISO/IEC 27001, ISO/IEC62443 and OWASP. Cybersecurity audit trail , 4-eye principle , Seamless integration of certificates within customer IT infrastructure, Microsoft's active directory-based authentication, Use of network infrastructure that supports physical network or VLAN segmentation, Placing the web server in a "demilitarized zone" (DMZ), End-to-end encryption, from client to server, End-to-end encryption between servers, Certificate-based data exchange, Encrypted backups. The software shall have the capability to integrate with BIM Modelling. The software shall be Energy Conservation Calculation Software, Energy Management & Engineering Software and Software license shall be for 100% spare license. The software shall be Server based with all other accessories complete as required including all charges complete etc as directed by Engineer In charge/ departmental authorities. Makes : As per list of recommended brands.		
1126		ELEC-14.3.4	DDC for Air Handling Unit -(2 AHU per DDC)- Supply, Installation, Testing & Commissioning of 32 Bit Microprocessor true IP Based DDC supporting and I/O's designed as per the IO Summary with all other mounting accessories, The controller shall have inbuilt 2-port Ethernet switch . The controller shall have 16 inputs/outputs inbuilt and can be expandable upto max 40 points by Input/Output Modules, The DDC shall have 300 Mhz processor with 128 MByte SDRAM (DDR3) and 512 MByte NAND Flash. Each DDC should contain 20% spare IO for each type of below mentioned IO's. DDC Internal Cabling shall be BMS vendor scope. For more Details, Please refer IO Summary and as per detailed technical specifications and approved make including all charges complete etc as directed by Engineer In charge/ departmental authorities. Makes : As per list of recommended brands.	Set	62000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
1127		ELEC-14.3.5	DDC for OT - Air Handling Unit - (1 AHU per DDC)- SITC of True IP Based DDC Standalone 32 Bit Intelligent, peer to peer communication, interoperable DDC as per the specification. The compact controller shall have inbuilt 2-port Ethernet switch with WLAN interface. The controller shall have 16 inputs/outputs inbuilt and can be expandable upto max 40 points by Input/Output Modules. The DDC shall have 300 Mhz processor with 128 MByte SDRAM (DDR3) and 512 MByte NAND Flash. The controller shall be freely programmable and have System functions (alarming, scheduling, trending, access protection with individually definable user profiles and categories). It should have Cloud connectivity for remote access and inbuilt port for POT for local interface. Makes : As per list of recommended brands.	Set	56446
1128		ELEC-14.3.6	DDC for Ventilation and Lift Lobby Pressurization Fans- (4 Fans per DDC)- SITC of True IP Based DDC Standalone 32 Bit Intelligent, peer to peer communication, interoperable DDC as per the specification. The compact controller shall have inbuilt 2-port Ethernet switch with WLAN interface. The controller shall have 16 inputs/outputs inbuilt and can be expandable upto max 40 points by Input/Output Modules. The DDC shall have 300 Mhz processor with 128 MByte SDRAM (DDR3) and 512 MByte NAND Flash. The controller shall be freely programmable and have System functions (alarming, scheduling, trending, access protection with individually definable user profiles and categories). It should have Cloud connectivity for remote access and inbuilt port for POT for local interface. Makes : As per list of recommended brands.	Set	55196
1129		ELEC-14.3.7	DG - SITC of True IP Based DDC Standalone 32 Bit Intelligent, peer to peer communication, interoperable DDC as per the specification. The compact controller shall have inbuilt 2-port Ethernet switch with WLAN interface. The controller shall have 16 inputs/outputs inbuilt and can be expandable upto max 40 points by Input/Output Modules. The DDC shall have 300 Mhz processor with 128 MByte SDRAM (DDR3) and 512 MByte NAND Flash. The controller shall be freely	Set	60500

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			programmable and have System functions (alarming, scheduling, trending, access protection with individually definable user profiles and categories). It should have Cloud connectivity for remote access and inbuilt port for PO. Makes : As per list of recommended brands.		
1130		ELEC-14.3.8	DDC for Transformer/HT/LT- Supply, Installation, Testing & Commissioning of 32 Bit Microprocessor true IP Based DDC supporting and I/O's designed as per the IO Summary with all other mounting accessories, The controller shall have inbuilt 2-port Ethernet switch . The controller shall have 16 inputs/outputs inbuilt and can be expandable upto max 40 points by Input/Output Modules,The DDC shall have 300 Mhz processor with 128 MByte SDRAM (DDR3) and 512 MByte NAND Flash. Each DDC should contain 20% spare IO for each type of below mentioned IO's. DDC Internal Cabling shall be BMS vendor scope. For more Details, Please refer IO Summary. As per detailed technical specifications and approved make including all charges complete etc as directed by Engineer In charge/ departmental authorities. Makes : As per list of recommended brands.	Each	180473
1131		ELEC-14.3.9	DDC for Lifts- Supply, Installation, Testing & Commissioning of 32 Bit Microprocessor true IP Based DDC supporting and I/O's designed as per the IO Summary with all other mounting accessories, The controller shall have inbuilt 2-port Ethernet switch . The controller shall have 16 inputs/outputs inbuilt and can be expandable upto max 40 points by Input/Output Modules, The DDC shall have 300 Mhz processor with 128 MByte SDRAM (DDR3) and 512 MByte NAND Flash. Each DDC should contain 20% spare IO for each type of below mentioned IO's. DDC Internal Cabling shall be BMS vendor scope. For more Details, Please refer IO Summary.as per detailed technical specifications and approved make including all charges complete etc as directed by Engineer In charge/ departmental authorities. Makes : As per list of recommended brands.	Each	60500
1132		ELEC-	DDC for Plumbing System & Fire Fighting - Supply,	Each	58000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
		14.3.10	Installation, Testing & Commissioning of 32 Bit Microprocessor true IP Based DDC supporting and I/O's designed as per the IO Summary with all other mounting accessories, The controller shall have inbuilt 2-port Ethernet switch . The controller shall have 16 inputs/outputs inbuilt and can be expandable upto max 40 points by Input/Output Modules, The DDC shall have 300 Mhz processor with 128 MByte SDRAM (DDR3) and 512 MByte NAND Flash. Each DDC should contain 20% spare IO for each type of below mentioned IO's. DDC Internal Cabling shall be BMS vendor scope. For more Details, Please refer IO Summary,. As per detailed technical specifications and approved make including all charges complete etc as directed by Engineer In charge/ departmental authorities. Makes : As per list of recommended brands.		
1133		ELEC-14.3.11	Software Integration- SITC of True IP Based BTL & UL Listed for third party integration for AHU VFD's, VRV System, Thermostats, DG/UPS/LT/HT Panel and Fire Alarm Systems. The controller shall have 2-port Ethernet switch and WLAN interface. It should have BTL label (BACnet communications passed the BTL test) and consisting of Dual microprocessor with Storage capacity of 1 GB RAM. It should support Real Time clock upto 7 Days. It should Support of the major communication protocols: BACnet,/IP, BACnet MS/TP, Modbus IP and Modbus RTU upto 500 points. Integrator shall be of same make only. Makes : As per list of recommended brands.	Job	250000
1134		ELEC-14.3.12	Supply, Installation, Testing & Commissioning of Ambient Temperature + RH Sensor with all the mounting accessories included. Temp sensor shall be Pt 1000 RTD type with 4 to 20mA transmitter or thermistor type and RH sensor shall be capacitive type with 4 to 20mA transmitter. The temperature measurement range shall be 0 to 50oC and humidity range shall be 0 to 95% RH as technical specification with all other mounting accessories complete as required including all charges complete etc as directed by Engineer In charge/ departmental authorities. Makes : As per list of recommended brands.	Each	18804

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
1135		ELEC-14.3.13	Supply, fixing, Testing & Commissioning of Room Type Temperature + Humidity Sensor including all charges complete etc as directed by Engineer In charge/ departmental authorities. Makes : As per list of recommended brands.	Nos	13680
1136		ELEC-14.3.14	Supply, Installation, Testing & Commissioning of Differential Pressure Switch (DPS) with all the mounting accessories included. The maximum pressure limit shall be 0-1000Pa as technical specification with all other mounting accessories complete as required. Field Devices & internal cabling of AHU shall be BMS vendor scope including all charges complete etc as directed by Engineer In charge/ departmental authorities. Makes : As per list of recommended brands.	Each	2451
1137		ELEC-14.3.15	Supply, Installation, Testing & Commissioning of Duct Static Pressure Sensor with all the mounting accessories included. The maximum pr limit shall be 0-500Pa all other mounting accessories complete as required. Field Devices & internal cabling of AHU shall be BMS vendor scope including all charges complete etc as directed by Engineer In charge/ departmental authorities. Makes : As per list of recommended brands.	Each	6849
1138		ELEC-14.3.16	Supply, fixing, Testing & Commissioning of Duct Temperature Sensors including all charges complete etc as directed by Engineer In charge/ departmental authorities. Makes : As per list of recommended brands.	Nos	3394
1139		ELEC-14.3.17	Supply, installation, testing and commissioning of Return air CO2 Sensor including all charges complete etc as directed by Engineer In Charge/ departmental authorities. Makes : As per list of recommended brands.	Each	15786
1140		ELEC-14.3.18	Supply, fixing, Testing & Commissioning of Current Relay including all charges complete etc as directed by Engineer In charge/ departmental authorities. Makes : As per list of recommended brands.	Nos	2050
1141		ELEC-14.3.19	Supply, fixing, Testing & Commissioning of Voltage Transducer including all charges complete etc as directed by Engineer In charge/ departmental	Each	6500

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			authorities. Makes : As per list of recommended brands.		
1142		ELEC-14.3.20	Supply, fixing, Testing & Commissioning of Ultrasonic Water Level Sensor (Note: Level should indicate as Litre basis in BMS Screen) for Water tank as technical specification with all other mounting accessories including all charges complete etc as directed by Engineer In Charge/ departmental authorities. Makes : As per list of recommended brands.	Each	19488
1143		ELEC-14.3.21	Supply, fixing, Testing & Commissioning of Flame Proof Diesel Level Sensor for Diesel Day Tank Monitoring. Tank Height 1 Mtr including all charges complete etc as directed by Engineer In charge/ departmental authorities. Makes : As per list of recommended brands.	Each	12358
			ACCESS CONTROL SYSTEMS		
1144		ELEC-14.4.1	Supply and installation of Biometric Thumb reader with Proximity card readers based on RFID technology with Keypad, with Back Plate including all fixing accessories. Rate shall include required accessories, tools and tackles, transportation, material and labour etc., complete as instructed by Engineer In charge. The contractor should follow the safety measures inside the premises. Makes : As per list of recommended brands.	Each	20592
1145		ELEC-14.4.2	Supply and installation of Proximity card readers based on RFID technology, along with Back Plate including all fixing accessories. Rate shall include required accessories, tools and tackles, transportation, material and labour etc., complete as instructed by Engineer In charge. The contractor should follow the safety measures inside the premises. Makes : As per list of recommended brands.	Each	11960
1146		ELEC-14.4.3	Supply and installation of Proximity Access Card (16k bit with 2 application areas) with print as per client requirement. Makes : As per list of recommended brands.	Each	291

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
1147		ELEC-14.4.4	Supply and installation of Exit Push Button (Egress Switch), Rate shall include required accessories, tools and tackles, transportation, material and labour etc., complete as instructed by Engineer In charge. The contractor should follow the safety measures inside the premises. Makes : As per list of recommended brands.	Each	635
1148		ELEC-14.4.5	Supply and installation of Single Leaf 600 Lbs Magnetic Lock with required mounting accessories, Rate shall include required accessories, tools and tackles, transportation, material and labour etc., complete as instructed by Engineer In charge. The contractor should follow the safety measures inside the premises. Makes : As per list of recommended brands.	Each	2964
1149		ELEC-14.4.6	Supply and installation of Double Leaf Magnetic Lock with required mounting accessories, Rate shall include required accessories, tools and tackles, transportation, material and labour etc., complete as instructed by Engineer In charge. The contractor should follow the safety measures inside the premises. Makes : As per list of recommended brands.	Each	5876
1150		ELEC-14.4.7	Supply and installation of UL, CE approved Access Controller - Smart card reader interfaces for 2 door, supports up to 4 smart card reader interfaces, Network connection to the host system and Compact Flash, RS485, RS232 or Ethernet connectivity, 20,000 cardholders data & up to 100,000 transaction detail storage. Makes : As per list of recommended brands.	Each	36400
1151		ELEC-14.4.8	Supply and installation of ACCESS DOOR CONTROLLER housing shall be in accordance with UL guidelines and is used for securely mounting and housing the Access Controller, extensions and the power supplies. Makes : As per list of recommended brands.	Each	6760
1152		ELEC-14.4.9	Supply and installation of Power supply with battery charger for ACCESS DOOR CONTROLLER Shall be with Selectable 12 VDC or 24 VDC voltage output	Each	8528

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			<p>Overvoltage protection Regulates battery charging voltage The product is classified in accordance with the following standards:</p> <ul style="list-style-type: none"> • EN 55022 Class B • EN 55024 • IEC / UL / EN 60950 & CSA (product safety) • CE <p>The Power supply can be mounted on rails and installed in the housing. Makes : As per list of recommended brands.</p>		
1153		ELEC-14.4.10	<p>Supply and installation of Door Buzzer, Rate shall include required accessories, tools and tackles, transportation, material and labour etc., complete as instructed by Engineer In charge. The contractor should follow the safety measures inside the premises. Makes : As per list of recommended brands.</p>	Each	676
1154		ELEC-14.4.11	<p>Supply of MS Junction boxes for mounting readers/exit switch/break glass in wall / partitions. Makes : As per list of recommended brands.</p>	Each	350
			NURSE-CALL SYSTEM		
1155		ELEC-14.5.1	<p>Supply, installation, testing & commissioning of Central Display Module -Nurse station unit Narrating TYPE of call, MULTICOLOR Colour CODED Room Nos, CALL FORWARDING, CALL ESCALATION, SMS facility with SELF DIAGNOSIS Supply, installation, testing & commissioning of 19" MULTICOLOR MONITOR HD 1366 x 768 Resolution / 5ms Response Time / 200 cd/m2 / HDMI + VGA Port/ Stereo Speakers / Wall Mount Ready. Makes : As per list of recommended brands.</p>	Each	9244
1156		ELEC-14.5.2	<p>Supply, installation, testing & commissioning of Nurse call processor-NCP Processor</p> <ul style="list-style-type: none"> •Broadcom BCM2387 chipset. •1.2GHz Quad-Core ARM Cortex-A53 (64Bit)GPU • Dual Core Video Core IV® Multimedia Co-Processor. Provides Open GL ES 2.0, hardware- 	Each	28000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
			accelerated Open VG, and 1080p30 H.264 high-profile decode. <ul style="list-style-type: none"> • Capable of 1Gpixel/s, 1.5Gtexel/s or 24GFLOPs with texture filtering and DMA infrastructure Memory • 1GBLPDDR2 Operating System • Boots from Micro SD card, running a version of the Linux operating system or Windows 10 IoT. Makes : As per list of recommended brands.		
1157		ELEC-14.5.3	Supply, installation, testing & commissioning of NS-Extender for Interfacing with ROOM units. Makes : As per list of recommended brands.	Each	17500
1158		ELEC-14.5.4	Supply, installation, testing & commissioning of Bed Unit with NURSE CALL, CODE BLUE and Additional Help complete with corded handset, with CLEAR, Multicolour LED for CALL STATUS and NIGHT VISION. Makes : As per list of recommended brands.	Each	6200
1159		ELEC-14.5.5	Supply, installation, testing & commissioning of Bathroom (Emergency) Pull Cord Modules, CALLING Unit - A pull cord switch to trigger a Call with LED indicator. Makes : As per list of recommended brands.	Each	4250
1160		ELEC-14.5.6	Supply, installation, testing & commissioning of DOOR/ CORRIDOR INDICATOR-Multicolour Indicates various Call types & Status. Makes : As per list of recommended brands.	Each	4450
1161		ELEC-14.5.7	Supply, installation, testing & commissioning of MMDP (Supervisory Display) with Communication Device. Makes : As per list of recommended brands.	Each	63000
1162		ELEC-14.5.8	Supply, installation, testing & commissioning of Nurse Response Monitor Software with SMS facility. Makes : As per list of recommended brands.	Each	90000
1163		ELEC-14.5.9	Supply, installation, testing & commissioning of NS_LCD Nurse station Display (320x240 pixels)Micro-controller based device placed in the Nurse Station with dynamic windows which displays the room number of the OPD ROOM. Makes : As per list of recommended brands.	Each	29750
1164		ELEC-	Supply, installation, testing & commissioning of PIH	Each	20000

SL. NO.	CFMS CODE (2018-19)	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2022-23 (Rs.)
1		2	3	4	5
		14.5.10	Interface HUB can connect upto-8 ROOMS. Makes: As per list of recommended brands.		
1165		ELEC-14.5.11	Supply, installation, testing & commissioning of Calling Unit- inside OPD the unit is designed with soft touch keypad consisting of one key for CALL initiation and the other for CLEAR. Makes: As per list of recommended brands.	Each	1725
1166		ELEC-14.5.12	Supply, installation, testing & commissioning of Door Indicator, Wall Mountable type, semi-circular shaped Indicator makes use of Super Bright LEDs to indicate the ROOM call at the Passage / Corridor. Makes: As per list of recommended brands.	Each	1850

Electrical & Electro Mechanical items

(List of Recommended brands/Manufacturers for guidance of field engineers)

S. No	Item Code	Category	Makes
			SECTION – 1
	1.1		M.S. CONDUIT PIPES
1	ELEC-1.1.1	.....	Makes: NAI / Bharath / GB / AKG/Precision.
	1.2		PVC CONDUIT PIPES
2	ELEC1.2.1/ 1.2.2/1.2.6/1. 2.7 /1.2.8	.....	Makes : Precision/Universal& Marudhar/VIP / GoldMedal / Million plast / GM / Sudhakar /Polycab/Anchor/ Polyline/ Orbit/AKG/Beljin/Vasavi/DEC
3	ELEC-1.2.3	.....	Makes: Precision/VIP / Modi/ GoldMedal / Million plast / GM / Sudhakar / Polyline/Orbit/Anchor/Beljin
4	ELEC-1.2.4 /1.2.5	.....	Make:Precision/ VIP / GoldMedal / Million plast / Sudhakar / Polyline /Anchor/Beljin
5	ELEC-1.2.10		Make: Legrand/ Modi/ Honeywell
	1.5		COPPER FLEXIBLE CABLES (AS PER IS:694)
6	ELEC-1.5.1	CATEGOR Y- I	Makes: Finolex / RR kabel / Havells KEI/Polycab/Gloster/Goldmedal/GM/ Finecab/ Fortune Arrt/Anchor/Million
7	ELEC-1.5.2	CATEGOR Y- II	Makes: V-Guard/Bonton / HPL /Sudhakar/Orbit/ Tamra/ /Plaza/ Vihan/Ollvin/Laser/Beljin/Rhino/ Standard / Vimal /DEC /Unistar/LS cable
8	ELEC-1.5.3	CATEGOR Y- III	Makes: Star / Airson/ Benlo / Gemscab /Rajnigandha/ Avocab/CRI/Salzer/Spykaar/Unicab/AKG/Fybros/A-Flex
			SHEATHED FLEXIBLE COPPER CABLES
9	ELEC-1.5.4	CATEGOR Y- I	Makes: Finolex / RR kabel / Havells /KEI/Polycab/ Gloster/ Goldmedal/GM/ Finecab/ Fortune Arrt/Anchor /Million
10	ELEC-1.5.5	CATEGOR Y- II	Makes: V-Guard/Bonton/ HPL / Million /Sudhakar/Orbit/ Tamra/ /Plaza/ Vihan/Spykaar/ Ollvin/Laser/Beljin/Rhino/ Standard/ Vimal/DEC/Unistar/Fybros/A-Flex//LS cable
11	ELEC-1.5.6	.....	Makes: Finolex / Polycab / Havells / V-Guard / Gold Medal / GM / Million / Vimal /Airson/CRI/ Tamra/ ollvin/Avocab
12	ELEC-1.5.7	CATEGOR Y- I	Makes: Finolex / RR kabel / Havells KEI/Polycab/Gloster/Goldmedal/GM
13	ELEC-1.5.8	CATEGOR Y- II	Makes: V-Guard/Bonton /Finecab/ HPL / Million /Fortune Arrt / Sudhakar/Orbit/ Tamra/ Anchor/Plaza/ Vihan/Ollvin/Laser/Beljin/Rhino/ Standard / Vimal
	1.6		SERVICE MAINS AND FLAT CABLE FOR SUBMERSIBLE MOTORS.

14	ELEC-1.6.1/1.6.2	.....	Makes: Gold Medal / Million / GM / Vimal / Finecab / Nakoda / Plaza/ Payal / Sudhakar/ Rajnigandha/ Airson/Orbit/ollvin/Beljin
15	ELEC-1.6.3	CATEGOR Y- I	Makes: Finolex / RR Kabel/ Polycab / Havells / KEI/ Gloster/ Goldmedal / GM/ Finecab/ Million
16	ELEC-1.6.4	CATEGOR Y- II	Makes: V-Guard / Vihan/Vimal / CRI/ Lubi/Unicab/Hitech/ Spykaar/ Airson/Ollvin/ Laser/ Beljin/Rhino/Sudhakar/Fortune Arrt/Unistar/DEC//LS cable/ A-Flex/ Fybros
	1.7		FLUSH TYPE SWITCHES AND ACCESSORIES
17	ELEC-1.7.1	.....	Makes: GM G Home / Gold Medal Olive / Million Zoom / Great white Omega/Koncept/Vimal opel/ Anchor/Vihan/CPL/ Havells Reo
	1.8		MODULAR SWITCHES AND ACCESSORIES
18	ELEC-1.8.1/1.8.3	CATEGOR Y- I	Makes: Legrand (Arteor/Myrius) / Schneider (Clipsal X/ Livia AB)/ Crabtree Murano or Ducor/L&T-englaze/ GM-(Four-Five)/ Goldmedal(GIFA)/Million (M-VEE)/Anchor Roma (PLUS)
19	ELEC-1.8.2/1.8.4	CATEGOR Y- II	Makes: Legrand Lyncus / Havells Coral or Fabio / L&T/ HPL/ Schneider Livia/ GM-(G NINE/ GX) C&S/ Goldmedal (Curve/Air) / Million Mway / Logus Platina/ Panasonic Vision / Salzer S90series/ Precision/Koncept (Samrat/ Qura)/ /Polycab(Levana / IndoAsian/ Pointer/ CPL/Kolors/ Vihan/Hosper/ Vimal/DEC(Unicus)/Fybros/Infinity
			SECTION - 2
	2.1		PANEL MOUNTING SWITCH DISCONNECTOR FUSE UNITS (SDFU)
20	ELEC-2.1.1	CATEGOR Y- I	Makes: L&T / Schneider / C&S / ABB / SIEMENS
21	ELEC-2.1.2	CATEGOR Y- II	Makes: Standard / Havells / HPL / Indo Asian / Benlo/Anchor
	2.2		ON LOAD CHANGEOVER SWITCHES (OPEN EXECUTION)
22	ELEC-2.2.1	CATEGOR Y- I	Makes: Socomec / L & T / HPL / Havells/ C&S
23	ELEC-2.2.2	CATEGOR Y- II	Makes: ABB / GE / Siemens / Indo Asian / Benlo/Standard
	2.3		OFF LOAD CHANGE OVER SWITCHES IN SS ENCLOSURE
24	ELEC-2.3.1	CATEGOR Y- I	Makes: HPL / Havells / Standard / Indo Asian / C&S
25	ELEC-2.3.2	CATEGOR Y- II	Makes: Benlo / Million / GoldMedal /GM/ Vimal
	2.4		AUTO TRANSFER SWITCH
26	ELEC-2.4.1	.....	Makes: Socomec /Hager /ABB/ HPL/L&T/Havells
27	ELEC-2.4.2	.....	Makes: Socomec ATysP/ ABB/L&T
	2.5		REWIRABLE / DOUBLE BREAK SWITCHES IN SS ENCLOSURE
28	ELEC-2.5.1	CATEGOR Y- I	Makes: HPL / Havells / Standard / Indo Asian/Benlo

29	ELEC-2.5.2	CATEGOR Y- I	Makes: HPL / Havells / Standard / Indo Asian /Benlo
30	ELEC-2.5.3	CATEGOR Y- II	Makes:Anchor / GM / Million / Sputnik / Sigma / Gold Medal / Star/Kundan cab/Anchor.
31	ELEC-2.5.4	CATEGOR Y- II	Makes: Anchor / GM / Million / Sputnik / Sigma / Gold Medal / Star/Kundan cab/Anchor.
	2.6		HRC FUSE LINKS (DIN/BOLTED TYPE)
32	ELEC-2.6.1	.....	Makes: L & T / G E / C & S / Standard / HPL / Havells / Siemens / Indo Asian
	2.7		PORCELAIN REWIRABLE FUSE UNITS.
33	ELEC-2.7.1	.....	Makes: C&S/Standard/HPL/ Sputnik / Million / Gold Medal /GM/ Benlo /Anchor
34	ELEC-2.7.2	.....	Makes: C&S/Standard/HPL/ Sputnik / Million / Gold Medal / GM/Benlo/Anchor
	2.8		VOLTAGE SURGE PROTECTORS
35	ELEC-2.8.1	.....	Makes: Legrand / Siemens / G.E / L&T / Hager/Havells
	2.9		PANEL MOUNTING MCCBs
36	ELEC-2.9.1	CATEGOR Y- I	Makes: L&T- D shine / Schneider-CVS/Legrand –(DP X3/DRX)/ Siemens- 3VL / Hager-h3/C&S - Winbreak/HPL-Techno
37	ELEC-2.9.2	CATEGOR Y- II	Makes: GE / ABB / Havells / Standard / Indo Asian
			PANEL MOUNTING ACBs (Microprocessor Based)
38	ELEC-2.9.3	CATEGOR Y- I	Makes: Siemens/ L&T / Schneider /Legrand /C&S /HPL
39	ELEC-2.9.4	CATEGOR Y- II	Makes:ABB / GE / Indo Asian / Havells
			AIR INSULATED BUS DUCT
40	ELEC-2.9.5	.....	Makes: Legrand (Zucchini) / C&S/Advance-Anant
41	ELEC-2.9.6	.....	Makes: Legrand (Zucchini) / C&S/Advance- Anant
42	ELEC-2.9.7	.....	Makes: Legrand (Zucchini) / C&S /Advance-Anant
43	ELEC-2.9.8	.....	Makes: Legrand (Zucchini) / C&S/Advance-Anant
			SANDWITCH BUSDUCT
44	ELEC-2.9.9	.....	Makes: Legrand (Zucchini) / L&T / Schneider/C&S/Advance-Anant
45	ELEC-2.9.10	.....	Makes: Legrand (Zucchini) / L&T / Schiender / C&S /Advance-Anant
46	ELEC-2.9.11	.....	Makes: Legrand (Zucchini) / L&T / Schiender /C&S/Advance-Anant
47	ELEC-2.9.12	.....	Makes: Legrand (Zucchini) / Schiender /C&S/Advance-Anant
48	ELEC-2.9.13	.....	Makes: Legrand (Zucchini) / L&T / Schiender /C&S/Advance- Anant
49	ELEC-2.9.14	.....	Makes: Legrand (Zucchini) / L&T / Schiender /C&S/Advance-Anant
	2.1		MCBs (AS PER IS:60898-1:2002)
50	ELEC-2.10.1	CATEGOR Y- I	Makes: Legrand-DX3 / Schneider-A9/Hager-h3/ Siemens-5SX4/ Havells STADx /L&T-AU/Indo Asian-Opti pro/ HPL (Techno)
51	ELEC-2.10.2	CATEGOR Y- II	Makes: ABB- S200/Standard / Havells-euro II / C&S /L&T-Exora/ GM

			/Gold Medal/ Anchor/Salzer /Polycab
52	ELEC-2.10.3	CATEGOR Y- III	Makes:Milltec/ Sputnik / Benlo / Vimal /Precision/Amron/Million.
	2.11		ISOLATORS CONFIRMS TO I E C 60947 PART-III
53	ELEC-2.11.1	CATEGOR Y- I	Makes: Legrand-DX3 / Schneider-A9/Hager-h3/ Siemens-5SX4/ Havells STADx/L&T-AU/Indo Asian-Opti pro/HPL(Techno)
54	ELEC-2.11.2	CATEGOR Y- II	Makes: ABB- S200/Standard / Havells-euro II / C&S /L&T-Exora/ GM /Gold Medal/ Anchor/Salzer /Polycab
55	ELEC-2.11.3	CATEGOR Y- III	Makes: Milltec / Sputnik / Benlo / Vimal/ Precision/Amron/Million.
	2.12		RCCBs(ELCB/RCD) CONFIRMS TO IEC:61008 AND IS:12640-1
56	ELEC-2.12.1	CATEGOR Y- I	Makes: Legrand-DX3 / Schneider-A9/Hager-h3/ Siemens-5SX4/ Havells STADx/L&T-AU/Indo Asian-Opti pro/HPL(Techno)
57	ELEC-2.12.2	CATEGOR Y- II	Makes: ABB- S200/Standard / Havells-euro II / C&S /L&T-Exora/ GM /Gold Medal/ Anchor/Salzer /Polycab
			RCBO CONFIRMS TO IEC:61009-1
58	ELEC-2.12.3	.....	Makes: ABB- S200/Standard / Havells-euro II / HPL (Techno) / C&S /L&T-Exora/ GM /Gold Medal/ Anchor/Salzer /Polycab
	2.13		MCB DISTRIBUTION BOARDS (AS PER IS 8623; IS 13032; IEC 61439-3)
59	ELEC-2.13.1	CATEGOR Y- I	Makes: Legrand(Ekinox 3) / Schneider-A9/Hager - Novello+/ Seimens/Havells STADx/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno).
60	ELEC-2.13.2	CATEGOR Y- II	Makes: ABB/Standard / Havells-euro II / C&S / L&T/GM /Gold Medal/Anchor/Salzer/Polycab
61	ELEC-2.13.3	CATEGOR Y- III	Makes:Milltec / Sputnik / Benlo / Vimal/Precision/ Amron/Million.
			TPN DBs
62	ELEC-2.13.4	CATEGOR Y- I	Makes: Legrand (Ekinox 3) / Schneider-A9/Hager - Novello+/ Seimens/Havells STADx/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno).
63	ELEC-2.13.5	CATEGOR Y- II	Makes: ABB/Standard / Havells-euro II / C&S / L&T/GM /Gold Medal/Anchor/Salzer/Polycab
64	ELEC-2.13.6	CATEGOR Y- III	Makes: Milltec /Benlo / Vimal /Precision/Amron/Million.
			VTPN DBs
65	ELEC-2.13.7	CATEGOR Y- I	Makes: Legrand(Ekinox 3) / Schneider-A9/Hager - Novello+/ Seimens/Havells STADx/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno)
66	ELEC-2.13.8	CATEGOR Y- I	Makes: Legrand(Ekinox 3) / Schneider-A9/Hager - Novello+/ Seimens/Havells STADx/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno).
67	ELEC-2.13.9	CATEGOR Y- I	Makes: Legrand(Ekinox 3) / Schneider-A9/Hager - Novello+/ Seimens/Havells STADx/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno).

68	ELEC-2.13.10	CATEGOR Y- II	Makes: ABB/Standard / Havells-euro II / C&S / L&T/GM /Gold Medal/Anchor/Salzer
69	ELEC-2.13.11	CATEGOR Y- II	Makes: Siemens / ABB / Standard / Havells /Hager/ C&S/L&T/Anchor
70	ELEC-2.13.12	CATEGOR Y- II	Makes: ABB/Standard / Havells-euro II / C&S / L&T/GM /Gold Medal/Anchor/Salzer
71	ELEC-2.13.13	CATEGOR Y- I	Makes: Legrand(Ekinox 3) / Schneider-A9/Hager - Novello+/ Seimens/Crabtree Xpro classique-II/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno).
72	ELEC-2.13.14	CATEGOR Y- II	Makes: ABB/Standard / Havells-euro II / C&S / L&T/GM /Gold Medal/Anchor/Salzer/Polycab
73	ELEC-2.13.15	CATEGOR Y- III	Makes: Milltec / Sputnik / Benlo / Vimal/Amron/Million.
74	ELEC-2.13.16	CATEGOR Y- I	Makes: Legrand(Ekinox 3) / Schneider-A9/Hager - Novello+/ Seimens/Havells STADx/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno).
75	ELEC-2.13.17	CATEGOR Y- II	Makes: Siemens / ABB / Standard / Havells / Hager/ C&S /L&T/ GM /Anchor/Gold Medal /Polycab
76	ELEC-2.13.18	CATEGOR Y- III	Makes: Milltec / Sputnik / Benlo / Vimal/Amron/Million.
			SECTION - 3
	3.1		STREET LIGHT LUMINAIRES
77	ELEC-3.1.1	CATEGOR Y- I	Deleted
78	ELEC-3.1.2	CATEGOR Y-II	Deleted
79	ELEC-3.1.3	CATEGOR Y- I	Deleted
80	ELEC-3.1.4	CATEGOR Y- II	Deleted
81	ELEC-3.1.5	CATEGOR Y- I	Deleted
82	ELEC-3.1.6	CATEGOR Y- II	Deleted
83	ELEC-3.1.7	.....	Deleted
	3.2		LED POST TOP LANTERN LUMINAIRES
84	ELEC-3.2.1	.....	Makes: Crompton LPTO-40-CDL-M/ Bajaj Celesta BGCL 40 W LED Wh/Wipro LP 02 or equivalent in Phillips/Keselec/Havells Endura Spring/Rhino(GPLP14)
85	ELEC-3.2.2	.....	Make: Keselec MIRI or equivalent in Philips/Wipro
86	ELEC-3.2.3	.....	Make: Keselec CAMBRIDGE/ or equivalent in Philips/Wipro
87	ELEC-3.2.4	.....	Makes: Crompton / Bajaj/ Wipro/Phillips/Keselec/Havells
	3.3		ACCESSORIES FOR MV / SV / MH LUMINAIRES
			COPPER BALLASTS
88	ELEC-3.3.1	.....	Deleted
89	ELEC-3.3.2	.....	Deleted
90	ELEC-3.3.3	.....	Deleted
91	ELEC-3.3.4	.....	Deleted
	3.4		LAMPS
92	ELEC-3.4.1	CATEGOR Y- I	Deleted.

93	ELEC-3.4.2	CATEGOR Y- II	Deleted
	3.5		AUTOMATIC STREET LIGHT CONTROL SYSTEMS
94	ELEC-3.5.1	.....	Make: Swadep Nature Switch / Lightmate/ GL/Bajaj
95	ELEC-3.5.2 a - e	.....	Make: Swadep Nature Switch / Light Mate /GL/Bajaj
96	ELEC-3.5.3 a - c	.....	Makes : Swadep /Super tech (Light Mate)/ L&T / Siemens / Bajaj
	3.6		INTERNAL LUMINAIRES
97	ELEC-3.6.1	CATEGOR Y- I	Deleted
98	ELEC-3.6.2	CATEGOR Y- II	Deleted
99	ELEC-3.6.3	.....	Deleted
100	ELEC-3.6.4	.....	Deleted
101	ELEC-3.6.5	.....	Deleted
102	ELEC-3.6.6	.....	Deleted
103	ELEC-3.6.7	.....	Deleted
104	ELEC-3.6.8	.....	Deleted
105	ELEC-3.6.9	.....	Deleted
106	ELEC-3.6.10	.....	Deleted
107	ELEC-3.6.11	.....	Deleted
	3.7		FLOURSCENT TUBES / CFL LAMPS / LED BULBS
108	ELEC-3.7.1	.....	Deleted
109	ELEC-3.7.2	.....	Deleted
110	ELEC-3.7.3	.....	Deleted
111	ELEC-3.7.4	.....	Deleted
			LED BULBS
112	ELEC-3.7.5	.....	. Makes: Phillips /Crompton / Bajaj / Havells / Halonix/GM/HPLSyska / Green Lites / Fortune Arrt / GoldMedal / Luker/Leo/Orbit /Rhino / GLO LED
113	ELEC-3.7.6	.....	Makes: Phillips /Crompton / Bajaj / Havells / Halonix/GM/HPLSyska / Green Lites / Fortune Arrt / GoldMedal / Luker/Leo/Orbit/Rhino /GLO LED
114	ELEC-3.7.7	.....	Makes : Philips/Bajaj / Crompton / Havells/ HPL.
	3.8		LED LUMINAIRES INDOOR
			DOWN LIGHTERS
115	ELEC-3.8.1	CATEGOR Y- I	a) LUMINAIRE MAKE : Phillips / GE-Venture / Crompton / Wipro / Bajaj / Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal/Eveready/ FortuneArrt/ Rhino/Panasonic b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG/Everlight
116	ELEC-3.8.2	CATEGOR Y- II	Makes : Surya /C&S / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Opple/R LED/Luker/ Orbit/Trinic / GLO LED /Vimal b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT

117	ELEC-3.8.3	CATEGOR Y- III	a) LUMINAIRE MAKE : Pasolite / Cosmo / Siger/ Koncept/ Kiran/Vibrant/Leo/Lumens/Ilite/Akarui/Fybros b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT
			LED PANEL LIGHTS
118	ELEC-3.8.4	CATEGOR Y- I	a) LUMINAIRE MAKE : Phillips / GE- Venture / Crompton / Wipro / Bajaj / Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal/Eveready/ FortuneArrt/ Rhino/Panasonic b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG/Everlight.
119	ELEC-3.8.5	CATEGOR Y- II	Makes : Surya /C&S / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Oppl/ Luker/ Orbit/Trinic/Lumens/ GLO LED/ Vimal b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT
120	ELEC-3.8.6 a to f	CATEGOR Y- III	a) LUMINAIRE MAKE : Pasolite / Cosmo / Siger/ Koncept/ Kiran/Vibrant/Leo/Ilite/Akarui/Fybros b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT/ San'an
			COB DOWN LIGHTS
121	ELEC-3.8.7	CATEGOR Y- I	a) LUMINAIRE MAKE : Phillips / GE-Venture / Crompton / Wipro / Bajaj / Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal /Eveready/ FortuneArrt// Rhino/Panasonic b) LED MAKE : Bridge Lux / LUMILEDS / CREE / NICHIA / Epistar/ Sunpo/Samsung
122	ELEC-3.8.8	CATEGOR Y- II	Makes : Surya /C&S / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Oppl/Luker/ Orbit/ Trinic/Lumens /GLO LED /Vimal/Akarui /Fybros b) LED MAKE : Bridge Lux / LUMILEDS / CREE / NICHIA / Epistar/ Sunpo/Samsung
			SPOT LIGHTS / WALL WASHERS
123	ELEC-3.8.9	CATEGOR Y- I	a) LUMINAIRE MAKE : Phillips / GE-Venture / Crompton / Wipro / Bajaj/ Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal/Eveready/ FortuneArrt/Panasonic b) LED MAKE : Bridge Lux / LUMILEDS / CREE / NICHIA / Epistar/ Sunpo
124	ELEC-3.8.10	CATEGOR Y- II	Makes : Surya /C&S / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Oppl/R LED/Luker/ Orbit/Trinic /Akarui b) LED MAKE : Bridge Lux / LUMILEDS / CREE / NICHIA / SAMSUNG/ Sunpo
125	ELEC-3.8.11	CATEGOR Y- I	a) LUMINAIRE MAKE : Phillips / GE- Venture / Crompton / Wipro / Bajaj / Havells / Halonix/ GreenLites/HPL /Eveready/ FortuneArrt b) LED MAKE :Bridge Lux / LUMILEDS / CREE / NICHIA / Epistar.
126	ELEC-3.8.12	CATEGOR Y- II	Makes : Surya / Polycab/ Oppl/Luker/ Orbit/Akarui b) LED MAKE : Bridge Lux/ CREE / NICHIA / Epistar
			LED BATTENS AND 2' x 2' LUMINARIES

127	ELEC-3.8.13	CATEGOR Y- I	a) LUMINAIRE MAKE : Phillips / GE- Venture / Crompton / Wipro / Bajaj / Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal/Eveready// Rhino/Panasonic b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG/ Everlight.
128	ELEC-3.8.14	CATEGOR Y- II	Makes : Surya /C&S/ Fortune Arrt / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Opple/ Luker/ Orbit/ Trinic/Lumens/ GLO LED / Vimal b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT
129	ELEC-3.8.15	CATEGOR Y- III	a) LUMINAIRE MAKE : Pasolite / Cosmo / Siger/ Koncept/ Kiran/Vibrant/Leo/ilite/Akarui/ Fybros b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT
130	ELEC-3.8.16	CATEGOR Y- I	a) LUMINAIRE MAKE : Phillips / GE- Venture / Crompton / Wipro / Bajaj / Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal/Eveready// Rhino/Panasonic b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.
131	ELEC-3.8.17	CATEGOR Y- II	Makes : Surya /C&S/ Fortune Arrt / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Opple/ Luker/ Orbit/ Trinic/Lumens/ilite/ GLO LED/ Vimal/Akarui/ Fybros b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT
132	ELEC-3.8.18	.....	Makes: Phillips / Crompton / Bajaj/Surya/Havells/HPL
133	ELEC-3.8.19	.....	Makes: Greenlites / Fortune Arrt / Capart / GM / Goldmedal /Trinic/Kiran.
134	ELEC-3.8.20	CATEGOR Y- I	a) LUMINAIRE MAKE : Phillips / GE-Venture / Crompton / Wipro / Bajaj / Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal/Eveready / FortuneArrt// Rhino/Panasonic b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG/Everlight.
135	ELEC-3.8.21	CATEGOR Y- II	Makes : Surya /C&S / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Opple/ Luker/ Orbit/Trinic/ilite/GLO LED/ Vimal/Akarui/ Fybros b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT.
136	ELEC-3.8.22	.....	Makes : Philips/Bajaj/ Crompton / Surya / Havells / Greenlites/ Insta Power/HPL /Halonix/ Panasonic. / FortuneArrt
137	ELEC-3.8.22	.....	a) LUMINAIRE MAKE : Phillips (Pureline Slim) / GE- Venture / Crompton / Wipro / Bajaj / Havells (Dustello) b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG/LG
138	ELEC-3.8.23	CATEGOR Y- I	a) LUMINAIRE MAKE : Wipro(Skyline) / Philips (Green line) / GE-Venture / Crompton(Neo Series) / Bajaj (Edge) / Halonix(Lumos - Super) / Havells (Endura Series) /Capart(Premium)/Greenlites(Hi-Lux) /Polycab/Keselec/ HPL(City Vision)/ Jaquar(Premium)/Eveready/ Surya (Pollux) / FortuneArrt

			(Leaf) / Rhino(GPSL04) b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG
139	ELEC-3.8.24	CATEGOR Y- I	a) Luminaire Make : Wipro(Skyline) / Philips (Greenline Extra) / GE- Venture / Crompton(Nexus / Hawk series) / Bajaj (Edge) / Halonix (Modular/ Lumos-Super) / Havells (Endura Series)/Greenlites(HI-Lux) /Capart(Premium)/Polycab/Keselec / HPL(City Vision)/Jaquar (Premium) /Eveready /Surya (Pollux) / Fortune Arrt (Leaf) / Rhino(GPSL06) b) LED MAKE :PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG.
140	ELEC-3.8.25	CATEGOR Y- II	a) LUMINAIRE Makes: Syska / GM / C&S/ VIN/Gold Medal /Pharox / Cosmo / Enrich/Pro-lite(I) / Renesola / Stanjo / Goldwyn/ Ib LED/ Orbit/ Luker/Trinic/ GLO LED/ Vimal b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / LG.
141	ELEC-3.8.26	CATEGOR Y- III	a) LUMINAIRE Makes : Trinic / Pasolite / Sieger/Koncept/Vibrant/Leo/Lumens/Ilite/Akarui/ Fybros b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / LG.
			FLOOD LIGHTS
142	ELEC-3.8.27	CATEGOR Y- I	a) LUMINAIRE MAKE : Wipro / Philips/ GE-Venture / Crompton/ Bajaj /Greenlites / Havells/Capart(Premium) /Halonix/ Polycab /Keselec/HPL/Jaquar/Eveready / Surya (Lumasmax / O Flood) / FortuneArrt (Fin)/ Rhino(GPFL02 Series) b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.
143	ELEC-3.8.28	CATEGOR Y- II	a) LUMINAIRE Makes: Pharox / GM / Goldmedal / Syska / C&S/Cosmo/ Ib LED/ Vibrant/ Stanjo/Enrich/ Orbit/Luker/Trinic/Pro- lite/Ilite/GLO LED /Vimal/Akarui/ Fybros b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / LG
			HIGH BAY LIGHTS
144	ELEC-3.8.29	CATEGOR Y- I	a) LUMINAIRE MAKE : Wipro / Philips/ GE-Venture / Crompton/ Bajaj /Greenlites / Havells/Capart(Premium) /Halonix/Polycab/Keselec/ HPL/ Jaquar/Eveready / Surya (ORION-II)/ FortuneArrt (UFO-S) /Rhino(GPHB02 Series) b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG .
145	ELEC-3.8.30	CATEGOR Y- II	a) LUMINAIRE Makes: Pharox / GM / Goldmedal / Syska / C&S/Cosmo/ Ib LED/ Vibrant/ Stanjo/Enrich/Orbit/Luker/Trinic/Ilite/GLO LED/Akarui b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG.

146	ELEC-3.8.31	.....	UMINAIRE MAKE : Wipro / Philips/ GE / Crompton/ Bajaj / Greenlites/ Havells/ FortuneArrt b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG/Seoul .
			RGB/RGBW LED Lighting
147	ELEC-3.8.32	.....	LUMINAIRE MAKE : Wipro / Philips/ Crompton/ Bajaj / Greenlites/ Havells/ FortuneArrt b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG/Seoul .
148	ELEC-3.8.33	.....	a) LUMINAIRE MAKE : Wipro / Philips/ GE / Crompton/ Bajaj / Greenlites/ Havells/ FortuneArrt b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG /SEOUL.
149	ELEC-3.8.34	.....	Make: Sunlite Suit2/Artnet or its equivalent
150	ELEC-3.8.35	.....	Makes:colourdreamer/ AURA/Greenlites
151	ELEC-3.8.36	.....	Makes:colourdreamer/ AURA/Greenlites
152	ELEC-3.8.37	.....	Makes:colourdreamer/ AURA/Greenlites
153	ELEC-3.8.38	.....	Makes:Mean Well or its equivalent
154	ELEC-3.8.39	.....	Makes:Mean Well or its equivalent
			LED DRIVERS
155	ELEC-3.8.40	.....	Makes: Philips /Crompton / Bajaj/ Havells/Surya/Greenlites/HPL/Halonix/Jaquar/Ib LED/Promtec/Eveready
156	ELEC-3.8.41	.....	Makes: Philips /Crompton / Bajaj/ Havells/Surya/Greenlites/HPL/Halonix/Jaquar/Ib LED/Promtec/Eveready/Stanjo
			SECTION - 4
	4.1		U.G. CABLES
157	ELEC-4.1.1	CATEGOR Y- I	Makes: Torent / Universal / Unicab / Havells / KEI / Gloster/Finecab / Polycab /RR Kabel/ Fortune Arrt
158	ELEC - 4.1.2	CATEGOR Y- II	Makes: RPG / Finolex / Paragon / V-Guard / Suncab / Delton / Payal / Gemscab/ Orbit/Avocab/Laser/Rhino/Pawancab/LS cable.
			33 KV HT XLPE CABLES
159	ELEC-4.1.3	.....	Make: Torrent / Universal / Unicab / Havells / KEI /Polycab/Gloster/RR Kabel/RPG
			11 KV HT XLPE CABLES
160	ELEC- 4.1.4	.....	Make: Torrent / Universal / Unicab / Havells / KEI /Polycab/Gloster/RR Kabel/RPG
			Un Armoured and Armoured Copper Control Cables
161	ELEC-4.1.5	.....	Make: Torrent / Universal / Unicab / Havells / KEI /Polycab/Gloster /orbit / Paragon/ RR Kabel/ RPG/Pawancab/LS cable
162	ELEC-4.1.5 A	.....	Makes: Torent / Universal / Unicab / Havells / KEI / Gloster/Finecab / Polycab /RR Kabel
163	ELEC-4.1.5 B	.....	Makes: RPG / Finolex / Paragon / V-Guard / Fortune Arrt / Suncab / Delton / Payal / Gemscab/ Orbit/Avocab/Laser/Rhino.
164	ELEC-4.1.5C	.....	Makes :- Finolex/RR kabel/ Havells/ KEI/ Polycab/ Gloster/V-Guard/HPL/GM/ Million/Goldmedal/Anchor.
165	ELEC-4.1.6	.....	Make: Torrent / Universal / Unicab / Havells / KEI /Polycab/Gloster/Orbit/ Paragon/RR

			Kabel/RPG/Rhino/Pawancab/LS cable
			CABLE TERMINATIONS AND ACCESSORIES
166	ELEC-4.1.7	.....	Makes: Raychem /M seal/ Denson/ Multy/ Transeal-Hongshang
167	ELEC-4.1.8	.....	Makes: Raychem /M seal/ Denson/ Multy/ Transeal-Hongshang
168	ELEC-4.1.9	.....	Makes: Raychem /M seal/ Denson/ Multy/ Transeal-Hongshang
169	ELEC-4.1.10	.....	Makes:Dowels/Comet/SMI
170	ELEC-4.1.11	.....	.Makes:Dowels/Comet/SMI
171	ELEC-4.1.12	.....	Makes:Dowels/Jainson/Comet
172	ELEC-4.1.13	.....	Makes:Dowels/Jainson/Comet
	4.3		DOUBLE WALLED CORRUGATED HDPE PIPE
173	ELEC-4.3.1 a- h	.....	Makes:DURA LINE (Dura Guard)/Precision/CPE or its equivalent make.
			SECTION - 5
	5.1		FANS
174	ELEC-5.1.1	.....	Makes : Atomberg(Gorilla GV2)/ Halonix(Plasma) /Havells(Eficiencia Neo)/ Crompton(EN Riviera)/Superfan(E281)/RJP(Ecowise)
175	ELEC-5.1.2	.....	Makes : Atomberg(Gorilla GV2)/ Halonix(Plasma) /Havells(Eficiencia Neo)
176	ELEC-5.1.3	.....	Makes : Crompton HS Plus / Havells ES PLUS/Orient Energy Star/ Halonix(Zephyr)/Polycab(Synergy 50 ISI) / G.M. (Air Wave Premium)
177	ELEC-5.1.4	.....	Makes: Crompton (HS Decora/Aura) / Bajaj Regal Star / Havells Festiva / Orient Ornamental Shine/Halonix(Halo) /Polycab(Elanza)/G.M. (G-Storm)/Goldmedal(Orchid)/RJP(Aroma Super)
178	ELEC-5.1.5	.....	Makes : Crompton HS / Havells Velocity ES 50/Orient Summer Breeze Pro /Halonix(Zephyr)/Polycab(Synergy 50 ISI)
179	ELEC-5.1.6	.....	Makes: Crompton Wind Flo / Bajaj Elite / Havells Swing / Orient Wall 50/Halonix Krypton/G.M. (Bolt)/ Goldmedal(Nora-16)
180	ELEC-5.1.7	.....	Makes: Crompton Wind Flo / Bajaj Spectrum / Havells Swing / Orient Stand 37/Halonix Krypton/Polycab / G.M. (Bolt)/Goldmedal(Nora-16)
181	ELEC-5.1.8	.....	Makes: Crompton / Havells Turbo Force / Orient Tornado II / Almounard/Halonix Turbon/Polycab./ G.M. (Air-Burst)/Goldmedal(Toofan)
182	ELEC-5.1.9	.....	Makes: Crompton / Havells Turbo Force / Almounard/Halonix
183	ELEC-5.1.10	.....	Makes: Crompton / Havells ciera / Orient Wall 11/Halonix
184	ELEC-5.1.11	.....	Makes: Crompton / Bajaj Bahar WG / Havells Ventil Air-DSP / Orient hill air/Halonix /Polycab/G.M. (Xenix)/Goldmedal (Rapido-12)
185	ELEC-5.1.12	.....	Makes: Crompton / Bajaj Bahar WG / Havells Ventil Air-DSP / Orient hill air/Halonix /Polycab/ G.M. (Xenix)/Goldmedal (Rapido-9)

186	ELEC-5.1.13	.....	Makes: Crompton / Almounard / Havells Ventil Air-DB
187	ELEC-5.1.14	.....	Makes: Crompton / Almounard / Havells Turbo Force/Halonix Krypton
188	ELEC-5.1.15	.....	Makes: Crompton / Almounard / Havells Turbo Force/Halonix Krypton
	5.2		WATER HEATERS (Conventional & Solar)
189	ELEC-5.2.1	.....	Makes : Crompton Solarium (Neo/Qube) / Jaquar Elena / Venus Lyra / Racold Andris Lux Plus / AO Smith HSE SDS Plus /Havells Puro DX/Warmex
190	ELEC-5.2.2	.....	Make:TATA / BHEL/ BOSCH/ ETC/V-GUARD /RACOLD
191	ELEC-5.2.3	.....	Make:TATA / BHEL/ BOSCH/ ETC/V-GUARD /RACOLD
192	ELEC-5.2.4	.....	Make:Jaquar/AO Smith/Voltex/Racold /Rheem
193	ELEC-5.2.5	.....	Make:Jaquar/AO Smith/Voltex/Racold /Rheem
	5.4		PUMPSETS
			SINGLE PHASE SUBMERSIBLE MOTOR PUMP SETS
194	ELEC-5.4.1	CATEGOR Y- I	Makes: Kirloskar / Crompton / Texmo / CRI / KSB/Lubi/ PSG/AryenVarsha/ Falcon
195	ELEC-5.4.2	CATEGOR Y- II	Makes: Plugra / Sterling / Kumar / Unnati zen/Duke/Lada/Ellen/ Suguna/UNltek/KSP(Karunya)/Anco/Sabar/Fitwell/Deccan /Karvel / SILVER
			THREE PHASE SUBMERSIBLE MOTOR PUMP SETS.
196	ELEC-5.4.3	CATEGOR Y- I	Makes: Kirloskar / Crompton / Texmo / CRI / KSB/Lubi/ PSG/AryenVarsha/Falcon
197	ELEC-5.4.4	CATEGOR Y- II	Makes: Plugra / U-Neel / Sterling / Kumar / Unnati zen/Duke/Lada/Ellen/ Suguna/ UNltek/KSP(Karunya)/ Anco/ Sabar/ Fitwell/Deccan/Karvel/ SILVER
198	ELEC-5.4.5	CATEGOR Y- I	Makes: Kirloskar / Crompton / Texmo / CRI / KSB/Lubi/ PSG/AryenVarsha/Falcon
199	ELEC-5.4.6	CATEGOR Y- II	Makes: Plugra / U-Neel / Sterling /Kumar / Unnati zen/Duke/Lada/Ellen/ Suguna/UNltek /KSP (Karunya) /Anco/ Sabar/Fitwell/Polycab/Deccan/Karvel/ SILVER
			SINGLE PHASE OPEN WELL SUBMERSIBLE MOTOR PUMP SETS
200	ELEC-5.4.7	CATEGOR Y- I	Makes: Kirloskar / Crompton / Texmo / CRI / KSB/Lubi/PSG/ AryenVarsha/Falcon
201	ELEC-5.4.8	CATEGOR Y- II	Makes: Plugra / U-Neel / Sterling / Kumar / Unnati zen/Duke/LDK/Ellen/ Suguna/UNltek /KSP (Karunya) / Anco/ Sabar/Fitwell/Deccan/Karvel/ SILVER
			THREE PHASE OPEN WELL SUBMERSIBLE PUMP SETS
202	ELEC-5.4.9	CATEGOR Y- I	Makes: Kirloskar / Crompton / Texmo / CRI / KSB/Lubi /PSG/ AryenVarsha/Falcon
203	ELEC-5.4.10	CATEGOR Y- II	Makes: Plugra / U-Neel / Sterling / Kumar / Unnati zen/Duke/LDK/Ellen/ Suguna/UNltek/ KSP(Karunya) /Polycab/ Anco/ Sabar /Fitwell/Deccan/Karvel/ SILVER
			SINGLE PHASE MONO BLOCK MOTOR PUMP SETS.
204	ELEC-5.4.11	CATEGOR Y- I	Makes: Kirloskar / Crompton / Texmo / CRI / KSB/Lubi / Havells Hi-flow V2 / PSG/AryenVarsha/Falcon
205	ELEC-5.4.12	CATEGOR Y- II	Makes: Plugra / U-Neel / Sterling /Kumar / Unnati zen/Ellen/LDK/Suguna/ UNltek/Polycab/Anco/

			Sabar/Fitwell/Deccan/Karvel / SILVER
206	ELEC-5.4.13	CATEGOR Y- I	Makes: Kirloskar / Crompton / Texmo / CRI / KSB /Lubi/ AryenVarsha/Falcon
207	ELEC-5.4.14	CATEGOR Y- II	Makes: Pluga / U-Neel / Sterling /Kumar / Unnati zen/Ellen/LDK/Suguna/ UNIttek/Polycab/Anco/ Sabar/Fitwell/Deccan/Karvel/ SILVER
			CONTROL PANEL BOARD FOR MOTOR PUMPSETS
208	ELEC-5.4.15	.....	make C&S/LTLK/ Seimens/ BCH/KSP(Karunya)/ Crompton. complete.,
209	ELEC-5.4.16	.....	make C&S/LTLK/Seimens/BCH /KSP(Karunya) /Crompton. complete.,
210	ELEC-5.4.17	.....	Voltmeter ;. Makes: L&T / C&S / SALZAR / HPL/ AEI / Meco / Rishab Ammeter Makes: L&T / C&S / SALZAR / HPL/ AEI / Meco / Rishab Single phase preventor Makes: L&T / Minilec / Powertec. 32 A TP, 10KA MCB. Makes: Legrand / Schneider capacitor Makes: L&T / Siemens / Schneider / Epcos/Havells.
	a	.....	Make C&S.Crompton / L&T /KSP/ Siemens/BCH.
	b	.....	Make C&S/Crompton / L&T / Siemens/BCH.
	c	.....	Make C&S/Crompton / L&T / Siemens/BCH.
211	ELEC-5.4.18	.....	Makes: Siemens / Crompton / L&T (MF1)
212	ELEC-5.4.19	.....	Makes: Siemens / Crompton / L&T (MK2 DOL).
213	ELEC-5.4.20	.....	Makes: Siemens / Crompton / L&T (MU1 DOL)
			UPVC PIPES AND FITTINGS
214	ELEC-5.4.21	.....	Makes : Ashirvad / Finolex / Waterflo /Sudhakar/Precision.
215	ELEC-5.4.27	.....	Makes : Ashirvad / Finolex / Waterflo
216	ELEC-5.4.28	.....	Makes : Ashirvad / Finolex / Waterflo / Apollo
	5.1		AIR CONDITIONERS
	ELEC-5.5.1		1.5TR Split ACs
	a	CATEGOR Y- I	Deleted
	b	CATEGOR Y- II	Deleted
			2.0 TR Split Acs
	c	CATEGOR Y- I	Deleted
	d	CATEGOR Y- II	Deleted
			Inverter Split AC Unts (Cooling Only)
217	ELEC-5.5.1 A		1.5TR Split ACs
	a	CATEGOR Y- I	Makes: Mitsubishi / O General /Toshiba (prevailing models in the market)
	b	CATEGOR Y- II	Makes: Blue Star / Daikin / Hitachi / Voltas / Carrier /LG (prevailing models in the market)
			2.0 TR Split Acs

	c	CATEGOR Y- I	Makes: Mitsubishi / O General / Toshiba (prevailing models in the market)
	d	CATEGOR Y- II	Makes: / Hitachi / Blue Star / Daikin / Voltas /Carrier/ LG (prevailing models in the market)
218	ELEC-5.5.2		0.8/ 1.0TR Split Acs
	a	CATEGOR Y- I	Makes: Mitsubishi MSY-GN10VF/ O General ASGG12CGTA-B/ Toshiba
	b	CATEGOR Y- II	Makes: Blue star /Carrier /Hitachi/Daikin/ LG-Q12KNZA
	c	CATEGOR Y- I	Makes: Mitsubishi MSY-GN13VF/ O General ASGG14CGTA-B/ Toshiba RAS-13U2KCVSG-IN
	d	CATEGOR Y- II	Makes: Blue Star IC512DATUL / Carrier Emperia Nxi / Hitachi / Daikin/ LG-Q12KNZA
			1.5, 1.8 & 2.0TR Split Acs
	e	CATEGOR Y- I	Makes: Mitsubishi MSY-GN18VF / O General ASGG18CGTA-B/Toshiba RAS-18U2KCVSG-IN
	f	CATEGOR Y- II	Makes: / Blue Star IC718DCTU / Daikin FTKG50TV16U / Hitachi/Carrier Emperia Nxi / LG-Q18KNZA
	g	CATEGOR Y- I	Makes: Mitsubishi MSY-GN22VF / O General /Toshiba
	h	CATEGOR Y- II	Makes: Blue star / Hitachi / Daikin
	i	CATEGOR Y- I	Makes: Mitsubishi MSY- GN26VF /O General ASGG24CGTA-B/Toshiba RAS-24U2KCVSG-IN
	j	CATEGOR Y- II	Makes: Blue star IC524DBTU / Hitachi / Daikin/Carrier Emperia Nxi
			INVERTER CASSETTE TYPE AC UNITS
219	ELEC-5.5.35		
	a	CATEGOR Y- I	Makes: Mitsubishi PLY- SP18EA / Toshiba RAV-SE561UP / O General.
	b	CATEGOR Y- I	Makes: Mitsubishi PLY- SP24EA / O General AUGA25FRTA-B / Toshiba RAV-SE801UP
	c	CATEGOR Y- II	Makes: Blue Star3HNCS24YAF/ Daikin / Carrier/ LG
	d	CATEGOR Y- I	Makes: Mitsubishi PLY- SP42EA / O General /Toshiba
	e	CATEGOR Y- II	Makes: Daikin / Bluestar / Carrier
	f	CATEGOR Y- I	Makes: Mitsubishi PLY-SP48EA / O General / Toshiba RAV- SE1251UP
	g	CATEGOR Y- II	Makes: Blue Star / Carrier / Daikin/LG
			TOWER MODEL (Vertical) TYPE AC UNITS
220	ELEC-5.5.36		
	a	.....	Makes: Carrier /Daikin / Blue Star
	b	.....	Makes: Carrier /Daikin / Blue Star
	c	.....	Makes: Carrier /Daikin / Blue Star
			HVAC SYSTEMS(VRV/VRF)
221	ELEC-5.6.1	CATEGOR Y- I	Makes: Mitsubishi /DAIKIN/Toshiba/O General
222	ELEC-5.6.2	CATEGOR	Makes: LG/Voltas/Blue star/Hitachi/Carrier/Samsung

		Y- II	
223	ELEC-5.6.6	CATEGOR Y- I	Makes: Mitsubishi /DAIKIN/Toshiba/ O General
224	ELEC-5.6.7	CATEGOR Y- II	Makes: LG/Voltas/Blue star/Hitachi/Carrier/Samsung
225	ELEC-5.6.8	CATEGOR Y- I	Makes: Mitsubishi /DAIKIN/Toshiba /O General
226	ELEC-5.6.9	CATEGOR Y- II	Makes: LG/Voltas/Blue star/Hitachi/Carrier/Samsung
227	ELEC-5.6.10	CATEGOR Y- I	Makes: Mitsubishi /DAIKIN/Toshiba/ O General
228	ELEC-5.6.11	CATEGOR Y- II	Makes: LG/Voltas/Blue star/Hitachi/Carrier/Samsung
229	ELEC-5.6.13	CATEGOR Y- I	Makes: Mitsubishi /DAIKIN/Toshiba/ O General
230	ELEC-5.6.14	CATEGOR Y- II	Makes: LG/Voltas/Blue star/Hitachi/Carrier/Samsung
			Refrigerant Piping
231	5.6.20	.....	Makes:Totaline/Mandav/Mexico
232	ELEC-5.6.25	.....	Makes:TATA/Jindal
	5.7		EVAPORATIVE AIR COOLING SYSTEM
233	ELEC-5.7.1	.....	Makes: Cool Breeze / Breeze Air
234	ELEC-5.7.2	.....	Makes: Cool Breeze /Breeze Air
			STABILIZERS
235	ELEC-5.8.1	CATEGOR Y- I	Makes: V-Guard / Real Guard / Uni Stab / ITL.
236	ELEC-5.8.2	CATEGOR Y- II	Makes: Keeline / Soft Line
	5.9		REPAIRING OF FANS, COOLERS, PUMPS, MOTORS, FRIDGES AND AIRCONDITIONERS
237	ELEC-5.9.16	.....	Makes:Carrier/ Kirlosker/ Techam-Shah/ Shriram/ Voltas
238	ELEC-5.9.17	.....	Makes: DAIKIN/LG/Carrier/Kirloskar/Techam-shah
239	ELEC-5.9.25	.....	Make: Copper:Totaline /Nippon /Mandev/Nitrile Insulation: Kflex/ Totaline /Armaflex
240	ELEC-5.9.26	.....	Makes : Crompton / AU.
241	ELEC-5.9.38	.....	Makes : Mitsubishi /DAIKIN/Toshiba/O General/ LG/Voltas/Blue star/Hitachi/Carrier/Samsung
242	ELEC-5.10.1	.....	Makes :- 1. FAN – KRUGER / ZIEHL-ABEGG 2. MOTORS – ABB/SIEMENS/BBL 3. FILTERS – CAMFIL/THERMADYNE 4. VFD DRIVE - DANFOSS / ABB 5. AHU - EDGE TECH / ZRCO/ CITIZEN/ BOOPATHY
243	ELEC-5.10.2- 5.10.7		Makes:- Crystal Air/Kruger/ System Air/ Carry Air/ Edgetech/ Greenheck/ Aerotech
244	ELEC-5.10.8		Make : Dyna / American Air Filter / M.K Precesion
			SECTION 6
	6.1		SWAGED / OCTAGONAL POLES AND GARDEN POSTS
			OCTOGONAL POLES

245	ELEC-6.1.4	.....	Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper/Consoul
246	ELEC-6.1.5	.....	Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper/Consoul
247	ELEC-6.1.6	.....	Makes: Bajaj / Valmont/Laasma/Transrail/Utkarsh/ Skipper/Consoul
248	ELEC-6.1.7	.....	Makes: Bajaj / Valmont/Laasma//Transrail/Utkarsh/ Skipper/Consoul
			DECORATIVE DRAGON TYPE BRACKET WITH POLE
249	ELEC-6.1.8	.....	Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper/Consoul
250	ELEC-6.1.10	.....	Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper/Consoul
			POLE BRACKETS
251	ELEC-6.1.11	.....	Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper/Consoul
252	ELEC-6.1.12	.....	Makes: Bajaj / Valmont/Laasma //Transrail/Utkarsh/ Skipper/Consoul
253	ELEC-6.1.13	.....	Makes: Bajaj / Valmont/Laasma//Transrail/Utkarsh/ Skipper/Consoul
254	ELEC-6.1.14	.....	Makes: Bajaj / Valmont/Laasma//Transrail/Utkarsh/ Skipper/Consoul
255	ELEC-6.1.15	.....	Makes: Bajaj / Valmont/Laasma//Transrail/Utkarsh/ Skipper/Consoul
256	ELEC-6.1.16	.....	Makes: Bajaj / Valmont/Laasma//Transrail/Utkarsh/ Skipper/Consoul
257	ELEC-6.1.17	.....	Makes: Bajaj / Valmont/Laasma//Transrail/Utkarsh/ Skipper/Consoul
258	ELEC-6.1.18	.....	Makes: Bajaj / Valmont/Laasma//Transrail/Utkarsh/ Skipper/Consoul
259	ELEC-6.1.19	.....	Makes: Bajaj / Valmont/Laasma//Transrail/Utkarsh/ Skipper/Consoul
260	ELEC-6.1.20	.....	Makes: Bajaj / Valmont/Laasma//Transrail/Utkarsh/ Skipper/Consoul
			HIGH MAST POLES
261	ELEC-6.1.21	.....	Makes: Bajaj / Valmont/Laasma/Transrail/Utkarsh/ Skipper/Consoul
262	ELEC-6.1.22	.....	Makes: Bajaj / Valmont/Laasma/Transrail/Utkarsh/ Skipper/Consoul
263	ELEC-6.1.23	.....	Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper/Consoul
			FEEDER PILLAR BOXES
264	ELEC-6.1.24	.....	FP MCBmake :Legrand / Schnieder / L&T
265	ELEC-6.1.25	.....	FP MCBmake :Legrand / Schnieder / L&T
			ERRECTION- HIGH MAST POLES
266	ELEC-6.1.29	.....	Make : Hensel/Sadhrish
			GRP POLES
267	ELEC-6.1.34	.....	Makes: Bajaj / Kemrock / Valmont/Sumip/Helipole
268	ELEC-6.1.35	.....	Makes: Bajaj / Kemrock / Valmont/Sumip / Helipole
	6.2		LT PANEL AND ACCESSORIES
269	ELEC-6.2.3	.....	.Make: Conzerve/Elmeasure/Meco/HPL/L&T/socomec
270	ELEC-6.2.4	.....	Make: Conzerve/Elmeasure/

			Meco/HPL/L&T/Schneider/AE/Socomec
271	ELEC-6.2.5	.....	Make: Kappa/L&T/Seimens/C&S/Schneider
272	ELEC-6.2.6	.....	Make: L&T /C&S/SALZER/HPL
273	ELEC-6.2.7	.....	Make: L&T /C&S/SALZER/HPL
274	ELEC-6.2.8	.....	Makes: CONZERVE / ELMEASURE / MECO / HPL / HAVELLS/L&T.
275	ELEC-6.2.12	.....	Makes: L&T/Seimens/Epcos/Schneider/Havells
276	ELEC-6.2.13	.....	Makes: L&T/Seimens/Epcos /Schneider/ ABB/Neptune
277	ELEC-6.2.14	.....	makes: L&T (SALZER)/ABB/Schneider/Seimens/C&S/HPL
278	ELEC-6.2.15	.....	Make:Seimens/ABB/Schneider/L&T/C&S/HPL/Havells
279	ELEC-6.2.16	.....	Make:Seimens/ABB/Schneider/L&T/C&S/HPL/Havells
280	ELEC-6.2.17	.....	Make:Seimens/ABB/Schneider/L&T/C&S/HPL/Havells
281	ELEC-6.2.18	.....	Make:Seimens/ ABB/ Schneider/L&T/C&S/HPL
	6.3		SUB STATION EQUIPMENT AND TRANSFORMERS
282	ELEC-6.3.1	.....	make:as approved By DISCOMs
283	ELEC-6.3.1a	.....	Make:ABB/ Megawin/Amara Raja/L&T
284	ELEC-6.3.2		Makes:ABB/Schneider/Seimens/Kirlos kar/Amara Raja/Megawin/L&T
285	ELEC-6.3.3	.....	Makes:ABB/Schneider/Seimens/Kirlos kar/Amara Raja/Megawin/L&T
			Oil Immersed TRANSFORMERS
286	ELEC-6.3.4	CATEGOR Y- I	Make:ABB/ALSTOM/SEIMENS/Kirloskar/Voltamp/ Esennar/KPEL/SSE/THOTA / Vajra
287	ELEC-6.3.4 A	CATEGOR Y- II	Deleted
288	ELEC-6.3.5	CATEGOR Y- I	Makes:Schneider/Kirloskar/Voltamp/ Esennar/ Toshiba/ KPEL/ Powertech /SSE / THOTA / Vajra
289	ELEC-6.3.5 A	CATEGOR Y- II	Deleted
290	ELEC-6.3.5 B	CATEGOR Y- I	Make:Schneider/Kirloskar/Voltamp/ Esennar/ Toshiba/ KPEL/ Powertech /SSE/ THOTA / Vajra
291	ELEC-6.3.5 C	CATEGOR Y- II	Deleted
292	ELEC-6.3.6	.....	Make:ABB/ALSTOM/SEIMENS/Crompton/Kirloskar/Volta mp/ Esennar
293	ELEC-6.3.7	.....	Make:ABB/ALSTOM/SEIMENS/Crompton/Kirloskar/Volta mp/ Esennar
	6.6		LIGHTENING PROTECTIVE SYSTEM
			Advanced LPS
294	ELEC-6.6.1 a	.....	Make : THUNDERGUARD(EARTHPLUS)/ KALRE/ NIMBUS / FOREND
295	ELEC-6.6.1 b	.....	Make : THUNDERGUARD(EARTHPLUS)/ KALRE/ NIMBUS / FOREND
296	ELEC-6.6.1 c	.....	Make : THUNDERGUARD(EARTHPLUS)/ KALRE/ NIMBUS / FOREND
297	ELEC-6.6.3	.....	Make: EARTHPLUS (THUNDER GUARD) / NIMBUS / KALRE / FOREND
298	ELEC-6.6.5	.....	Make: EARTHPLUS /CIRPROTEC /INDALAC / INGESCO
			SECTION 7

	7.0		LOCAL AREA NETWORK
299	ELEC-7.1.1	.....	Makes: Systimax /AMP/ Panduit/ Siemond/ Molex/Legrand
300	ELEC-7.1.2	.....	Makes: Systimax /AMP/ Panduit/ Siemond/ Molex/Legrand
301	ELEC-7.1.3	.....	Makes: Systimax /AMP/ Panduit/ Siemond/ Molex/Legrand
302	ELEC-7.1.4	.....	Makes: Systimax /AMP/ Panduit/ Siemond/ Molex/Legrand
303	ELEC-7.1.5	.....	Makes: Systimax /Legrand/Molex/Krone /AMP
304	ELEC-7.1.6	.....	Makes: Systimax/Legrand/Molex/Krone /AMP
305	ELEC-7.1.7	.....	Makes: Systimax/Legrand/Molex/Krone /AMP
306	ELEC-7.1.8	.....	Makes: Systimax/Legrand/Molex/Krone /AMP
307	ELEC-7.1.9	.....	Makes: Systimax /Legrand/Molex/Panduit/Siemond/AMP
308	ELEC-7.1.10	.....	Makes:Systimax /Legrand/Molex/Panduit/Siemond/AMP
309	ELEC-7.1.11	.....	Makes: Systimax/Legrand/Molex/Panduit/Siemond/AM P
310	ELEC-7.1.12	.....	Makes: Systimax /Legrand/Molex/Panduit/Siemond/AMP
311	ELEC-7.1.13	.....	Makes: Systimax /Legrand/Molex/Panduit/Siemond/AMP
312	ELEC-7.1.14	.....	Make: APW/HCL/Valrack/Netrack
313	ELEC-7.1.15	.....	Make: APW/HCL/Valrack/Netrack
			MANAGEBLE NET WORK SWITCHES
314	ELEC-7.1.16	.....	Makes : Cisco Model SG350-28 or equivalent in Juniper/Extreme
315	ELEC-7.1.17	.....	Makes :Cisco Model SG300-52 or equivalent in Juniper/Extreme
316	ELEC-7.1.18	.....	Makes : Cisco Model:SG-350- 8PP or equivalent in Juniper/Extreme
317	ELEC-7.1.19	.....	Makes : Cisco Model:SG-350-28PP or equivalent in Juniper/Extreme
318	ELEC-7.1.20	.....	Makes :Cisco Model SG350-28SFP or equivalent in Juniper/Extreme
319	ELEC-7.1.21	.....	Makes: CISCO WS - C2960+24TC-L or equivalent in JUNIPER/ EXTREME
320	ELEC-7.1.22	.....	Makes: CISCO WS- C2960+48TC-L or equilent in JUNIPER/EXTREME
321	ELEC-7.1.23	.....	Make: CISCO-C2960+24PC-L or equilent in JUNIPER/EXTREME
322	ELEC-7.1.24	.....	Make: CISCO-C2960+48PST-L or equilent in JUNIPER/EXTREME
323	ELEC-7.1.25	.....	Make: CISCO WS - C2960X-24TS-L or equivalent in JUNIPER/ EXTREME
324	ELEC-7.1.26	.....	Make: CISCO WS - C2960X-48TS-L or equivalent in JUNIPER/ EXTREME
325	ELEC-7.1.27	.....	Make : Cisco Aironet 1815i or equivalent in Ruckus/Aruba
326	ELEC-7.1.28	.....	TP-LINK/D-LINK/Net gear, Model no: TL SG2210MP, TL SG2428P
327	ELEC-7.1.29	.....	TP-LINK/D-LINK/Net gear
328	ELEC-7.1.30	.....	Make-D-Link Model No. DGS1210-8P or its equivalent make in Cisco/Netgear/HP
329	ELEC-7.1.31	.....	Make-D-Link Model No. DGS1210-28P or its equivalent make in Cisco/Netgear/HP

330	ELEC-7.1.32	.....	Makes: Finolex/RR kabel/Havells/ KEI/Polycab/ Gloster/V-Guard/HPL/GM/ Million/Goldmedal/Anchor.
331	ELEC-7.1.33	.....	Make : BELKIN or any reputed approved make
332	ELEC-7.1.34 - ELEC- 7.1.37	.....	Makes: D-Link / TP-Link/ Netgear/Cisco
	7.3		COMPUTERS,PRINTERS AND SCANNERS
333	ELEC-7.3.1	.....	Model : HP ProDesk or its equivalent in Dell/Lenova
334	ELEC-7.3.2	.....	Model : HP ProDesk or its equivalent in Dell/Lenova
335	ELEC-7.3.3	.....	Make : HP LaserJet 1020 Plus Printer (OR) It's Equivalent in Canon /Epson
336	ELEC-7.3.4	.....	makes: Canon imageCLASS MF244dw /HP/Brother DCPB7535DW or its equivalent
337	ELEC-7.3.5	.....	Make : Brother ADS-2400N document scanner (OR) It's Equivalent in Canon/HP
338	ELEC-7.3.6	.....	Makes: Finolex / Delton / Surabi / Polycab
339	ELEC-7.3.7	.....	Makes: Krone or its equivalent.
340	ELEC-7.3.8	.....	Makes: Finolex / Delton / Surabi / Polycab.
341	ELEC-7.3.9	.....	Makes: Finolex / Delton / Surabi / Polycab
342	ELEC-7.3.10	.....	Makes: Finolex / Delton / Surabi / Polycab
343	ELEC-7.3.11	.....	Makes: Finolex / Delton / Surabi / Polycab.
	ELEC-7.3.16		Makes : Beutel / NEC/ Alcatel /Avaya/Siemens.
			EPABX SYSTEM
	7.4		SMALL SYSTEM
344	ELEC-7.4.1	.....	Makes: NEC/ Alcatel /Avaya/Siemens
345	ELEC-7.4.2	.....	Makes: NEC/ Alcatel /Avaya/Siemens
346	ELEC-7.4.3	.....	Makes: NEC/ Alcatel /Avaya/Siemens
347	ELEC-7.4.4	.....	Makes: NEC/ Alcatel /Avaya/Siemens
348	ELEC-7.4.5	.....	Makes: NEC/ Alcatel /Avaya/Siemens
	7.5		LARGE SYSTEM
349	ELEC-7.5.1	.....	Makes: NEC/ Alcatel /Avaya/Siemens
350	ELEC-7.5.2	.....	Makes: NEC/ Alcatel /Avaya/Siemens
351	ELEC-7.5.3	.....	Makes: NEC/ Alcatel /Avaya/Siemens
352	ELEC-7.5.4	.....	Makes: NEC/ Alcatel /Avaya/Siemens
353	ELEC-7.5.5	.....	Makes: NEC/ Alcatel /Avaya/Siemens
			CCTV & SURVEILLANCE SYSTEM
354	ELEC-7.6.1	.....	makes Honeywell / Sony /Panasonic.
355	ELEC-7.6.2/ 7.6.3	.....	Make: MATRIX/ Honeywell/ Bosch/Tyco.
356	ELEC-7.6.4/ 7.6.5/7.5.6	.....	Makes Honeywell / Sony /Panasonic.
357	ELEC-7.6.7	.....	Make: Seagate/Hitachi/TOSHIBA
358	ELEC-7.6.8	.....	Make- Samsung QB55R or its equivalent make in Dell / LG / Samsung / Lenovo / HP
359	ELEC-7.6.9	.....	Make: Dell / LG / Samsung / Lenovo / HP
			PUBLIC ADDRESSING SYSTEM
360	ELEC-7.7.1 - ELEC-7.7.7		Make: Bosch/ Honeywell.
361	ELEC-7.7.8/ 7.7.9/7.7.10		Make: Ahuja/Mega/Studio Master
362	ELEC- 7.7.11/7.7.12		Makes - Bosch/Honeywell

363	ELEC-7.7.13/7.7.14		Make: Ahuja/Mega/Studio Master.
364	ELEC-7.7.15		Make: Prevailing models in Market.
			AUDIO-VIDEO SYSTEM
365	ELEC-7.8.1		Make: - Hitachi/ BenQ/ Sony/ Panasonic/LG
366	ELEC-7.8.2/7.8.3		Makes: Sony / NEC/Panasonic/Christie / Hitachi/Epson
367	ELEC-7.8.4		Make: OEM Make or Custom make.
368	ELEC-7.8.5		Make: Liberty/Suvira/Prolite.
369	ELEC-7.8.6		Make: Samsung/LG/Sony
370	ELEC-7.8.7		Make: OEM Make or Custom make.
371	ELEC-7.8.8/7.8.9		Make: Extron/Kramer
372	ELEC-7.8.10		Make: Custom make
373	ELEC-7.8.11		Make: NT/Customs.
374	ELEC-7.8.12		Make: Logitech
375	ELEC-7.8.13/7.8.14/7.8.15		Makes: Sennheiser / AKG / Electrovoice/JBL/Bose
376	ELEC-7.8.16		Makes: BSS / Xilica / Bose/JBL/Sennheiser
377	ELEC-7.8.17		Makes: Bose / JBL / Electrovoice
378	ELEC-7.8.18		Makes: Bose / Crown / Dynacord / Audac
379	ELEC-7.8.19		Makes: Bose / JBL / Dynacord / Audac
380	ELEC-7.8.20		Makes: Bose / JBL / Electrovoice
381	ELEC-7.8.21		Makes: Bose / JBL / Electrovoice
382	ELEC-7.8.22/7.8.23/7.8.24		Make: Electro-Voice/Bose/ JBL/Signature
383	ELEC-7.8.25		Make: Prevailing models in Market.
384	ELEC-7.8.26		Make: Prevailing models in Market.
385	ELEC-7.8.27 to ELEC-7.8.32		Makes: Extron / AMX / Lightware
386	ELEC-7.8.33		Amrutha Technologies/Dolphin Automation & Technology/Mangal Security Systems
	8.1		MISCELLANEOUS ITEMS
			NIL
	9.1		WIRELESS FIRE ALARM SYSTEM
387	ELEC-9.1.1	.....	Makes: Cease Fire / Visonic / Honeywell
388	ELEC-9.1.2	.....	Makes: Cease Fire / Visonic /Honeywell.
389	ELEC-9.1.3	.....	Makes: Cease Fire / Visonic / Honeywell.
390	ELEC-9.1.4	.....	Makes: Cease Fire / Visonic / Honeywell.
	9.2		ADDRESSABLE - FIRE ALARM SYSTEM
391	ELEC-9.2.1 a - f	CATEGOR Y- I	Makes: Notifier / Edwards/Bosch
392	ELEC-9.2.2 a - f	CATEGOR Y- II	Makes: Siemens / Morley / Honeywell/ Ravel/Seaara/Apollo
393	ELEC-9.2.3	CATEGOR Y- I	Makes: Notifier / Edwards/Bosch
394	ELEC-9.2.4	CATEGOR Y- II	Makes: Siemens / Morley / Honeywell/ Ravel/Seaara/Apollo
395	ELEC-9.2.5	CATEGOR Y- I	Makes: Notifier / Edwards/Bosch
396	ELEC-9.2.6	CATEGOR	Makes: Siemens / Morley / Honeywell/

		Y- II	Ravel/Seaara/Apollo
397	ELEC-9.2.7	CATEGOR Y- I	Makes: Notifier / Edwards/Bosch
398	ELEC-9.2.8	CATEGOR Y- II	Makes:Siemens / Morley / Honeywell/ Ravel/Seaara/Apollo
399	ELEC-9.2.9	CATEGOR Y- I	Makes: Notifier / Edwards/Bosch
400	ELEC-9.2.10	CATEGOR Y- II	Makes: Siemens / Morley / Honeywell/ Ravel/Seaara/Apollo.
401	ELEC-9.2.11	CATEGOR Y- I	Makes: Notifier / Edwards/Bosch
402	ELEC-9.2.12	CATEGOR Y- II	Makes:Siemens / Morley / Honeywell/ Ravel/Seaara/Apollo.
403	ELEC-9.2.13	CATEGOR Y- I	Makes: Notifier / Edwards/Bosch
404	ELEC-9.2.14	CATEGOR Y- II	Makes: Siemens / Morley / Honeywell/ Ravel/Seaara/Apollo.
405	ELEC-9.2.15	CATEGOR Y- I	Makes: Notifier / Edwards/Bosch
406	ELEC-9.2.16	CATEGOR Y- II	Makes:Siemens / Morley / Honeywell/ Ravel/Seaara/Apollo.
407	ELEC-9.2.17	CATEGOR Y- I	Makes: Notifier / Edwards/Bosch
408	ELEC-9.2.18	CATEGOR Y- II	Makes:Siemens / Morley / Honeywell/ Ravel/Seaara/Apollo .
409	ELEC-9.2.19	CATEGOR Y- I	Makes: Notifier / Edwards/Bosch
410	ELEC-9.2.20	CATEGOR Y- II	Makes:Siemens / Morley / Honeywell/ Ravel/Seaara/Apollo.
	9.3		CONVENTIONAL - FIRE ALARM SYSTEM
411	ELEC-9.3.1	.....	Makes: System Censor / Ravel/Vertex
412	ELEC-9.3.2	.....	Makes: Makes: System Censor / Ravel/Vertex
413	ELEC-9.3.3	.....	Makes: System Censor / Ravel/Vertex
414	ELEC-9.3.4	.....	Makes: System Censor / Ravel/Vertex
415	ELEC-9.3.5	.....	Makes: System Censor / Ravel/Vertex/Apollo.
416	ELEC-9.3.6	.....	Makes: Makes: System Censor / Ravel/Vertex
417	ELEC-9.3.7	.....	Makes: System Censor / Ravel/Vertex
418	ELEC-9.3.8	.....	Makes: System Censor / Ravel/Vertex
	9.4		POWDER BASED FIRE EXTINGUISHERS
419	ELEC-9.4.1	CATEGOR Y- I	Makes : Cease Fire / Minimax
420	ELEC-9.4.2	CATEGOR Y- II	Makes : Safex / Kenex / Bharat / Reliance/NewTech/Kartar
421	ELEC-9.4.3	CATEGOR Y- I	Makes : Cease Fire / Minimax
422	ELEC-9.4.4	CATEGOR Y- II	Makes : Safex / Kenex / Bharat / Reliance/NewTech/Kartar
423	ELEC-9.4.5	CATEGOR Y- I	Makes : Cease Fire / Minimax
424	ELEC-9.4.6	CATEGOR Y- II	Makes : Safex / Kenex / Bharat / Reliance/NewTech/Kartar
425	ELEC-9.4.7	CATEGOR	Makes : Cease Fire / Minimax

		Y- I	
426	ELEC-9.4.8	CATEGOR Y- II	Makes : Safex / Kenex / Bharat / Reliance/NewTech/Kartar
			CLEAN AGENT FIRE EXTINGUISHERS
427	ELEC-9.4.9	CATEGOR Y- I	Makes : Cease Fire / Minimax
428	ELEC-9.4.10	CATEGOR Y- II	Makes : Safex / Kenex / Bharat / Reliance/NewTech
429	ELEC-9.4.11	CATEGOR Y- I	Makes : Cease Fire / Minimax
430	ELEC-9.4.12	CATEGOR Y- II	Makes : Safex / Kenex / Bharat / Reliance/NewTech
431	ELEC-9.4.13	CATEGOR Y- I	Makes : Cease Fire / Minimax
432	ELEC-9.4.14	CATEGOR Y- II	Makes : Safex / Kenex / Bharat / Reliance/NewTech/Kartar
433	ELEC-9.4.15	.....	Makes: Cease Fire or its equivalent make Model-1ES01
			AEROSOL GENERATION SYSTEM (An alternative to water based sprinkler system)
434	ELEC-9.4.19	.....	Makes: SEAARA/AGS/SALAMANDRA
435	ELEC-9.4.20	.....	Makes: SEAARA/AGS/SALAMANDRA
436	ELEC-9.4.21	.....	Makes: SEAARA/AGS/SALAMANDRA
437	ELEC-9.4.22	.....	Makes: SEAARA/AGS/SALAMANDRA
438	ELEC-9.4.23	.....	Makes: SEAARA/AGS/SALAMANDRA
439	ELEC-9.4.24	.....	Makes: SEAARA/AGS/SALAMANDRA
440	ELEC-9.4.26	.....	Makes: SEAARA/AGS/SALAMANDRA
441	ELEC-9.4.27	.....	Makes: SEAARA/AGS/SALAMANDRA
	ELEC-9.4.30	.....	Makes: Reliance or equivalent approved by APSDR&FS Deptt.
	9.5		FIRE HYDRANT AND SPRINKLER SYSTEM
			ELECTRIC DRIVEN MAIN FIRE PUMPS(SPLIT CASE)
442	ELEC-9.5.1	.....	Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar
443	ELEC-9.5.2	.....	Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar
444	ELEC-9.5.3	.....	Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar
445	ELEC-9.5.4	.....	Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar
446	ELEC-9.5.5	.....	Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar
			DIESEL ENGINE DRIVEN FIRE PUMPS
447	ELEC-9.5.6	.....	Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&Platt
448	ELEC-9.5.7	.....	Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&Platt
449	ELEC-9.5.8	.....	Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&Platt
450	ELEC-9.5.9	.....	Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&Platt
451	ELEC-9.5.10	.....	Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&Platt

			ELECTRIC DRIVEN MAIN FIRE PUMPS(END SUCTION)
452	ELEC-9.5.11	.....	Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar
453	ELEC 9.5.12	.....	Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar
454	ELEC 9.5.13	.....	Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar
			DIESEL ENGINE DRIVEN MAIN FIRE PUMPS(END SUCTION)
455	ELEC-9.5.14	.....	Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&Platt
456	ELEC-9.5.15	.....	Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&Platt
457	ELEC-9.5.16	.....	Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&Platt
			JOCKEY PUMPS
458	ELEC-9.5.17	.....	Makes of Pumps : Kirloskar / Mather&Platt. Makes of Motors : Siemens/ ABB/ Kirloskar
459	ELEC-9.5.18	.....	Makes of Pumps : Kirloskar / Mather&Platt. Makes of Motors : Siemens/ ABB/ Kirloskar
460	ELEC-9.5.19	.....	Makes of Pumps : Kirloskar / Mather&Platt. Makes of Motors : Siemens/ ABB/ Kirloskar
			BOOSTER PUMPS
461	ELEC-9.5.20	.....	Makes of Pumps : Kirloskar / Mather&Platt. Makes of Motors : Siemens/ ABB/ Kirloskar
462	ELEC-9.5.21	.....	Makes : Kirloskar
463	ELEC-9.5.22	.....	Makes : Kirloskar
464	ELEC-9.5.23	.....	Makes : Kirloskar
			CONTROL PANELS
465	ELEC-9.5.24	.....	Makes: L&T- D shine / Schneider-NS NSX/Legrand -DP X3/ Siemens-3VL / Hager-h3/C&S -Winbreak2 Makes of Meters : Schneider (Conzerve) / L&T / Elmeasure / Siemens
466	ELEC-9.5.25	.....	Makes: L&T- D shine / Schneider-NS NSX/Legrand -DP X3/ Siemens-3VL / Hager-h3/C&S -Winbreak2 Makes of Meters : Schneider (Conzerve) / L&T / Elmeasure / Siemens
467	ELEC-9.5.26	.....	Makes: L&T- D shine / Schneider-NS NSX/Legrand -DP X3/ Siemens-3VL / Hager-h3/C&S -Winbreak2 Makes of Meters : Schneider (Conzerve) / L&T / Elmeasure / Siemens
468	ELEC-9.5.27	.....	Makes: L&T- D shine / Schneider-NS NSX/Legrand -DP X3/ Siemens-3VL / Hager-h3/C&S -Winbreak2 Makes of Meters : Schneider (Conzerve) / L&T / Elmeasure / Siemens
469	ELEC-9.5.28	.....	Makes: L&T- D shine / Schneider-NS NSX/Legrand -DP X3/ Siemens-3VL / Hager-h3/C&S -Winbreak2 Makes of Meters : Schneider (Conzerve) / L&T / Elmeasure / Siemens
470	ELEC-9.5.29	.....	Makes of MCCBs : L&T / Siemens / Legrand / Schneider / ABB / Hager

			Makes of Meters : Schneider (Conzerve) / L&T / Elmeasure / Siemens
			MS PIPES
471	ELEC-9.5.30	.....	Makes: Jindal / Hissar / Tata pipes/Prakash Surya
472	ELEC-9.5.31	.....	Makes: Newage/ Winco/ Padmini / Safex/Minimax/ Newtech/Honeywell/Kartar
473	ELEC-9.5.32	.....	Makes: Audco / Kirloskar / BDK / H-Shankar / Leader/ Zolotto / SANT/NEU-G/Honeywell//Kartar
474	ELEC-9.5.33	.....	Makes: BDK / NEU-G / Leader/ Zolotto / SANT/Honeywell//Kartar
475	ELEC-9.5.34	.....	Makes: Audco / Kirloskar / BDK / H-Shankar / Leader/ Zolotto /SANT/NEU-G/Honeywell//Kartar
476	ELEC-9.5.35	.....	Make: NEU-G/Zolotto/Padmini/SANT/Honeywell/Kartar
477	ELEC-9.5.36	.....	Makes: Newage/ Winco/ Padmini / Safex / Minimax/NewTech/Honeywell/Kartar
478	ELEC-9.5.37	.....	Makes: Newage/ Winco/ Padmini / Safex / Minimax/NewTech/Honeywell/Kartar
479	ELEC-9.5.38	.....	Makes: Leader / Zolotto/SANT/Honeywell/Kartar
480	ELEC-9.5.39	.....	a) 36.6 Mtr Long 20mm (Nominal internal) dia water hose Thermoplastic / Textile reinforced / Rubber braided / Polypropylene Type - 2 as per IS:12585 Makes: Reliance/ Newage/ Safex/NewTech/Winco/Minimax/Kartar b) 20mm (Nominal internal) dia gun metal ball/gate valve and nozzle. Makes:NEU-G/SANT / Safex/Kartar.
481	ELEC-9.5.40	.....	makes:Minimax/Safex/Newage/Winco /Padmini/NewTech/Kartar
482	ELEC-9.5.41 a-b	.....	Makes: Newage/ Winco/ Padmini / Safex / Minimax/NewTech/Kartar.
483	ELEC-9.5.42	.....	. Makes: Newage/ Winco/ Padmini / Safex / Minimax/NewTech/Honeywell/Kartar
484	ELEC-9.5.43	.....	Makes: Newage/ Winco/ Padmini / Safex / Minimax/NewTech/Honeywell/Kartar
485	ELEC-9.5.45	.....	Makes: HD / TYCO / VIKING / NEWAGE/ SHARP / SAFEX/Kartar
486	ELEC-9.5.46	.....	Makes: HD / TYCO / VIKING / NEWAGE/ SHARP / SAFEX/Kartar
487	ELEC-9.5.47	.....	Makes : Danfoss / Indfoss /Systemsensor/Honeywell
488	ELEC-9.5.48	.....	Makes : System Sensor / Switzer/Honeywell
489	ELEC-9.5.49	.....	Makes : System Sensor / Switzer/Honeywell
490	ELEC-9.5.50	.....	MAKES: HGURU / FIEBIG
491	ELEC-9.5.51	.....	Makes : Zoloto / Leader / SANT/NEU- G/Kartar
492	ELEC-9.5.52	.....	Makes : Zoloto / Leader / SANT/NEU- G/Kartar
493	ELEC-9.5.53	.....	Makes : Zoloto / Leader / SANT/Kartar
494	ELEC-9.5.54	.....	Makes : Tyko/Newage/HD/Kartar
495	ELEC-9.5.55	.....	Makes : HD / TYCO / NEWAGE
496	ELEC-9.5.56	.....	Makes:Normex /SANT/Kartar
497	ELEC-9.5.58	.....	. Make:IWL(PIPE KOT) or its equivalent
498	ELEC-9.5.60	.....	1) DOL Starter Make C&S/ Crompton / L&T /KSP/ Siemens/BCH
			2) Volt meter Make:Conzerve/Elmeasure/ Meco/

			HPL/L&T/ Socomec
			3) Ammeter Make: Conzerve/Elmeasure/Meco/HPL/ L&T/ Schneider/AE/ Socomec
			4) selector switch Make: L&T / C&S/ Salzer/HPL
			5) Single Phase Preventor Makes: L&T / Minilec / Powertec. - 1No.
			6) capacitor Makes: L&T / Siemens / Schneider / Epcos/Havells.
			7) MPCB (Motor Protection Circuit Breaker) Makes: L&T- D shine / Schneider-NS NSX/Legrand -DP X3/ Siemens-3VL.
			8) ON/OFF/TRIP push button actuators and integral contact block of dia. 22.5 mm i Make:Seimens/ ABB/ Schneider/ L&T/ C&S/HPL
			9) power contactor Make: Seimens/ABB/ Schneider/L&T/C&S/HPL/Havells - 3 pole, 35-40A AC3 Rating, Contactor
			10) thermal over load relay Make:Seimens/ABB/Schneider/L&T/C&S/HPL/Havells - 1 No
			11)Current Transformer Make: Kappa/L&T/ Seimens/ C&S/ Schneider - 3 No
499	ELEC-9.5.61	.....	Makes: Newage/ Winco/ Padmini / Safex / Minimax/NewTech/Honeywell/ Kartar.
500	ELEC-9.5.62	.....	Makes: HD / TYCO / VIKING / NEWAGE/ SHARP / SAFEX/ KARTAR
501	ELEC-9.5.63	.....	Makes: Audco / Kirloskar / BDK / H-Shankar / Leader/ Zolotto /SANT/NEUG/Honeywell/ Kartar
502	ELEC-9.5.64 a to e	.....	Makes: Audco / Kirloskar / BDK / H-Shankar / Leader/ Zolotto / SANT/Honeywell/ Kartar
503	ELEC-9.5.65	.....	Makes: Audco / Kirloskar / BDK / H-Shankar / Leader/ Zolotto / SANT/Honeywell/ Kartar
504	ELEC-9.5.66	.....	Makes: HD / TYCO / VIKING / NEWAGE/ SHARP / SAFEX
505	ELEC-9.5.67	.....	. Makes: HD / TYCO / VIKING / NEWAGE/ SHARP / SAFEX
506	ELEC-9.5.69		Make of motor: Crompton, Kirloskar, Texmo, KSB,CRI, Suguna with ISI mark. Pump:Green tech,Kisan,Ultrajet, Pressurejet, Ambica tools, Searaa or any ISI
507	ELEC-9.5.70		Make Petrol engine: Honda, Kisan, Yamaha
508	ELEC-9.5.71		Make of motor: Crompton, Kirloskar, Texmo, KSB,CRI, Suguna with ISI mark. Pump:Green tech,Kisan,Ultrajet, Pressurejet, Ambica tools, Searaa or any ISI
	10.1		GENERATORS SPECIFICATION
509	ELEC-10.1.1 a - e	.....	Engine Makes:Cummins/Koel Green/Sterling/ mahindra/Elmot Power Gen/Ashok Leyland/Greaves Alternator Make:Stamford/ Kirloskar/ CromptonGreaves/Leroysoner
510	ELEC-10.1.1 f - j	.....	Engine Makes:Caterpillar/Cummins/Koel Green/Mahindra/Elmot power Gen/Ashok Leyland/Greaves

			Alternator Make:Leroy somer/Crompton Greaves/Stamford
511	ELEC-10.1.1 k- p	.....	Engine Makes:Caterpillar/Perkins/Cummins/Greaves/KOEL Alternator Make:Leroy somer/Crompton Greaves/Stamford
	11.1		INVERTERS and ONLINE UPS SYSTEMS
512	ELEC-11.1.1	.....	Makes: Exide / Amar Raja / Samhitha/ Microtek
513	ELEC-11.1.2	.....	Makes: Numeric/APC/Fuji Electric/ Sakshham /Emerson
514	ELEC-11.1.3	.....	Makes: Numeric/APC/Fuji Electric / Sakshham /Emerson
515	ELEC-11.1.4	.....	Makes: Mitsubishi/ Socomec /Schiender(APC)/ Legrand/Fuji Electric (Consul Neowatt)
516	ELEC-11.1.9	.....	Makes: Quanta / Racket / Exide.
517	ELEC-11.1.10	.....	Makes: Quanta / Racket / Exide.
518	ELEC-11.1.11	.....	Makes: Quanta / Racket / Exide.
519	ELEC-11.1.12	.....	Makes: Quanta / Racket / Exide.
520	ELEC-11.1.13	.....	Makes: Quanta / Racket / Exide.
521	ELEC-11.1.14	.....	Makes: Quanta / Racket / Exide.
522	ELEC-11.1.15	.....	Makes: Quanta / Racket / Exide.
523	ELEC-11.1.17	.....	Makes: Amar Raja (Power Zone) or Equivalent model of Exide / Panasonic / Gotech.
	ELEC-11.2.1		Makes: Fuji Electric / Numeric/APC(Schneider)
	13.1		LIFTS (New Installation)
524	ELEC-13.1.1	.....	makes:Kone/Otis/Schindler/Mitsubishi/Johnson/Thyssen Krupp
525	ELEC-13.1.2	.....	makes:Kone/Otis/Schindler/Mitsubishi/Johnson/Thyssen Krupp
526	ELEC-13.1.3	.....	makes:Kone/Otis/Schindler/Mitsubishi/Johnson/Thyssen Krupp
527	ELEC-13.1.4	.....	makes:Kone/Otis/Schindler/Mitsubishi/Johnson/Thyssen Krupp
528	ELEC-13.1.5	.....	makes:Kone/Otis/Schindler/Mitsubishi/Johnson/Thyssen Krupp
529	ELEC-13.1.6	.....	makes:Kone/Otis/Schindler/Mitsubishi/Johnson/Thyssen Krupp
530	ELEC-13.1.7	.....	makes:Kone/Otis/Schindler/Mitsubishi/Johnson/Thyssen Krupp
531	ELEC-13.1.8	.....

			makes:Kone/Otis/Schindler/Mitsubishi/Johnson/Thyssen Krupp
532	ELEC-13.1.9	.....	makes:Kone/Otis/Schindler/Mitsubishi/Johnson/Thyssen Krupp
			SECTION- 14 (Electrical items recommended by Chief Engineer (APMSIDC))
			MEDICAL GAS PIPE LINE SYSTEM
533	ELEC-14.1.1 to 14.1.10		Make: IBP Conex / Maxflow
534	ELEC-14.1.11 to 14.1.19		Makes: Aktiv Technologies// Atlas Capco/ Draeger Medical/ / Airox Technologies / Aastha Medical technologies/ GMP Technical Solutions / Medicare gas pipe line/Mediline Engineers
535	ELEC-14.1.20/ 14.1.21		Make: Siemens / Johnson Controls / Medicare gas pipe line/ Mediline Engineers/ Aktiv Technologies// Atlas Capco/ Draeger Medical/ / Airox Technologies
			STP & ETP WORKS (Electro-Mechanical items)
536	ELEC-14.2.1 to ELEC-14.2.5		Fabricated item as per specification with SOR approved makes of MS/SS
537	ELEC-14.2.6 to ELEC-14.2.8		Fabricated item as per specification with SOR approved makes of MS/SS
538	ELEC-14.2.9/ 14.2.10		Make: Kay/Everest/Swan/A1/Jyothi Airtech/ Crystal Air/Kruger/ System Air/ Carry Air / Aerotech
539	ELEC-14.2.11		Make: MettlerToledo/Aster/Transformium Engrs/Konvio
540	ELEC-14.2.12/ 14.2.13		Makes: Rehau/OTT/SSI/Aquaflex/Techpro/Shridevi /Sreetech
541	ELEC-14.2.14 to ELEC-14.2.17		Makes: Kishor/KSB/Grundfos/CRI/Wilo/Kirloskar
542	ELEC-14.2.18/ 14.2.19		Fabricated item as per specification with SOR approved makes of MS/SS with reputed brands of Motor like Kirloskar/KSB/Texmo/CRI/Crompton
543	ELEC-14.2.20 to ELEC-14.2.21		Makes: Kay/Everest/Swan/A1/Jyothi Airtech/ Crystal Air/ System Air/ Carry Air / Aerotech
544	ELEC-14.2.22/ 14.2.23		Pipes as per specification with SOR approved makes of MS/ SS
545	ELEC-14.2.24		Makes: Rehau/OTT/SSI/Aquaflex/Techpro/Shridevi /Sreetech/ MM Aqua/ Tecpro/Enery Equipment
546	ELEC-14.2.25 to ELEC-		Makes: Kishor/KSB/Grundfos/CRI/Wilo/Kirloskar

	14.2.28		
547	ELEC-14.2.29 to ELEC-14.2.31		Make: ShivPAD/Eimco-KCP/PicoPuro/Voltas
548	ELEC-14.2.32 to ELEC-14.2.34		Make: Johnson/Kirloskar/KSB/Grundfos/CRI/Wilo
549	ELEC-14.2.35/ 14.2.36		Make: Hitech/Sukrut/Ultra Aqua/Philips/Equivalent
550	ELEC-14.2.37/ 14.2.39		Makes: Kishor/KSB/Grundfos/CRI/Wilo/Kirloskar
551	ELEC-14.2.40 to ELEC-14.2.43		Makes: Sreetech/Fluid Systems/Anju Enterprises/Any approved make
552	ELEC-14.2.44/ 14.2.45		Makes:Verito Engineering/Fluid Systems/ Fabricated item as per specification with SOR approved makes of MS/SS with reputed brands of accessories
553	ELEC-14.2.46/ 14.2.48		Makes: Kishor/KSB/Grundfos/CRI/Wilo/Kirloskar
554	ELEC-14.2.49		Make: PD pumps / Rotomac / Alpha helical /Roto
555	ELEC-14.2.50/ 14.2.51		Make: Hydro Press/Yo-Tana/Amar.
556	ELEC-14.2.52		Makes:Verito Engineering/Fluid Systems/ Fabricated item as per specification with SOR approved makes of MS/SS with reputed brands of accessories
557	ELEC-14.2.53		Make: MM Machinery/Safeselectromech/Vertex Cranes/Df Hoist/Reva Cranees/Aditya or any reputed brand
558	ELEC-14.2.54		Make: MM Aqua/ Tecpro/Enery Equipment/Rehau/ OTT/ SSI/Aquaflex/Techpro/Shridevi /Sreetech
559	ELEC-14.2.55 to ELEC-14.2.61		As Per Approved Makes in SOR for uPVC/D.I./KSC Pipes/ Reputed makes with ISI
560	ELEC-14.2.62/ 14.2.63		Makes: Metlor Tolodo/Vector Technologies/Lutron/Spectra Labs/Kytola/Any reputed brand with ISI
561	ELEC-14.2.64		Makes: HGURU / FIEBIG and Approved makes with ISI
			BUILDING MANAGEMENT SYSTEMS
562	ELEC-14.3.1/ 14.3.2		Makes HP/IBM/DELL
563	ELEC-14.3.3 to 14.3.17		Make: - Honeywell / Siemens/ Schneider/Johnson Controls/Delta

564	ELEC-14.3.18/ 14.3.19		L&T/ABB/Meco/Schneider/Siemens
565	ELEC-14.3.20/ 14.3.21		Make: Honeywell / Siemens/ Schneider/Johnson Controls/Delta
			ACCESS CONTROL SYSTEM
566	ELEC-14.4.1 to 14.4.9		Makes - Matrix/Honeywell/ESSL/Siemens/Delta/Johnson Controls/Bosch
567	ELEC-14.4.10/ 14.4.11		Make : Rosslare/Software house/Spectrum
			NURSE CALLING SYSTEM
568	ELEC-14.5.1 to 14.5.12		Make: Process Care/Schrack Seconet/ Johnson Controls/Honeywell/Integrated/SWIFTECH/Oritel

GUIDELINES FOR ELECTRICAL WORKS

PREFACE

Electrical supply and installation are an important and essential part of Building Services. Right from initial planning, design, selection of material, installation / method of construction; to testing, commissioning and maintenance; every aspect is governed by statutory provisions referring various Standards and Codes. All such norms are oriented to minimize risk, provide safe use, operation, functionality, and convenience throughout service life.

Any lapse in any of the above aspect may lead to severe effects on human life and devastation of assets. Occasions of electrical fires are increasing with the increasing use and electrical gadgets. Unfortunately, still it is seen that Electrical Installation is given least importance. Qualities and safeties are compromised out of connivance or lack of technical knowledge. Many times, electrical work gets executed through non-qualified persons not having required knowledge and Permit in that regard. Such hired persons work on labor basis to whom non-standard material is supplied without any base of 'Design'. There is no person to supervise quality and safety aspects, most of which remains 'concealed' as the work gets completed.

In case of High-Rise buildings norms are more stringent. Fire hazard is more prominent risk factor

as evacuation in high-rise building is a challenging task. Part 3 section 7 of NEC gives special guidelines in this regard.

The person who uses, operates electrical installation is not expected to know the real technical aspects of design, material used, quality of work, adherence to safety, compliance with statutory provisions. Under the circumstances it has become a need to set base line parameters. Plug the loopholes, get the work done adhering to norms and standards and make someone responsible so that in case of any lapse /mishap such person / agency can be made answerable.

Important Note:

1. SSR rates for Electrical items are purely for guidance of the officers in preparation of estimates vide Para 113 of APPWD Code. Authority who prepares the estimate is, however responsible for proper rates as envisaged in Para 45 of APPWD Code.

2. The rates published in the Buildings SoR 2021-22 are the ceiling rates only and the estimate preparing authorities are responsible for the correctness and reasonableness of the rates and technical specifications adopted in the estimates

The following guidelines /recommendations / mandates are basically given to execute work of Electrical Installation.

1. ARCHITECTURAL / CIVIL WORK PROVISIONS RELATED TO ELECTRICAL INSTALLATION

1.1 Architectural Planning requirements:

At planning stage Architect shall discuss and consider requirements of Electrical Consultant / Contractor in respect with site and location of construction and in respect with drawings of building requirement of spaces, clearances, approach ways, raceways, shafts, recommended wall thickness, required provisions for prevention from fire hazard likely to originate from electrical installation.

If proposed construction is within vicinity of existing over-headline, underground cable compliance with Regulation 63 of CEA Safety Regulations shall be checked prior to commencement of any work on site.

Architect shall incorporate following points in the drawings related to services as per the applicable requirements.

1.1.1 Site Plan:

Site plan shall show existing overhead electrical lines / underground cables if any and proposed construction within the boundaries of the area to be developed.

1.1.2 Routes and service entry points:

Architectural drawings shall clearly mark electrical service entry points, cable routes below ground, through the building structure, so that detailing in electrical shop drawings will restrict the work within specified route and no conflict shall occur with other building utility service. The drawings shall specify required horizontal and vertical clearance to be maintained between other utility services.

1.1.3 Locations of Electrical Panels:

Locations and position for main and sub electrical panels shall be marked, and adequate space / room shall be allocated considering dimensions of panel, clearance in front, side and back. Consideration shall be given to space required for opening of the panel doors / racking out breakers, and approach boundaries (Refer NEC Part1 / section 24 Electrical Safety), and accessibility. Floor mounting panels shall preferably be located in separate Electrical Panel Rooms having outside door opening, required fire rating (two hours if not specified) and ventilation arrangement.

NOTE – Special consideration shall be given to this point in case of High-Rise buildings.

1.1.4 Electrical meter rooms:

Meter rooms shall be separate. It shall be planned to have sufficient head room and clear space in front of meters, control switches (at least 1m). Space on wall shall be sufficient to accommodate required number of meters at suitable height so that readings can be taken without aid of any tackle. Also, the switchgears shall be at least 0.5 m above floor level and within such height to have an easy access for operation. The meter room shall be well ventilated, protected from external influences like sun, rain, water seepages, entry of rodents. Location of meter room shall be suitably adjacent or nearest to cable duct / shaft / vertical route of mains.

NOTE – Meter room shall not be located below staircases where above requirements could not be complied with.

1.1.5 Movement of heavy / bulky electrical equipment:

For installation of electrical equipment within building which is likely to be heavy / bulky in size or removing it for maintenance, provision of adequate passages, stair ways or any alternate provision for its shifting / movement shall be considered.

1.1.6 Shafts / ducts:

There shall be provision of shafts with required fire rating (2 hours if not mentioned specifically) for vertical electrical distribution which shall preferably be adjacent to electrical panels. Shafts shall be separate for electrical HT cables, LT power cables / bus-bar trucking and cable work of Extra Low Voltage systems like telephones, security system, fire alarm, signaling, BMS or data networking etc. If independent shaft is not possible, there shall be an arrangement for segregation in between, which shall have required fire rating same as that of shaft. No other utility service shall run through these shafts. Shafts shall be accessible at all levels with doors having fire rating as that of shaft and shall not open in fire escape staircase. All shafts shall have fire prevention provision as per National Building Code and fire safety requirements of local statutory authorities.

NOTE- As per CEA Reg.36 provision in respect of independent electrical service shaft is mandatory for all buildings above 15m height (High-Rise buildings).

1.1.7 Interior design and Electrical Layouts:

It is recommended to prepare interior layouts so as to plan electrical points, locations of switch boards to suite the aesthetics, functionality as well as for comfort and ease of operation.

1.1.8 Aesthetics and Electrical Safety

To avoid conflicts between Architect from perspective of aesthetic and person executing

electrical installation work from the point of view of safety requirements of electrical work, convenience and ease of installation and further maintenance depending on type of wiring (concealed / surface / hybrid), location of distribution boxes, requirement of under-floor trunking / false flooring / false ceiling, wall partitions and openings to enter into / work within as per the need. These points shall be decided at planning stage.

1.1.9 Illumination

Within interior work number, type, size, and location of luminaries shall be decided and agreed upon mutually between Architect and Electrical Agency, considering technical parameters of lux level, CCT, heat dissipation, accessibility and maintainability.

1.1.10 Ceiling Fans

Location of ceiling fans shall suite recommended minimum clearance between ceiling / false ceiling and fan blade (225mm), floor level and fan blade(2400mm).Sweep of fan blades shall not obstruct light source. Location and size of fan shall also suite utility from the point of view of users and aesthetically match with false ceiling design.

NOTE: Sometimes due to afterthought provision of false ceiling, it creates problems affecting required clearances. Under some cases, replacement of down rod with suitable length may solve problem but in case of limited ceiling height it is not possible.

1.1.11 Exhaust fans

Wherever provision of exhaust fans is there, cross ventilation shall be considered to allow sufficient fresh air to enter into particular envelop, e.g. For toilets where Exhaust fans are proposed, door under cuts or louvers preferably at lower level for cross ventilation shall be provided.

NOTE: Non provision of entry for fresh air creates negative pressure within the envelope increasing load on exhaust fan resulting into heating and subsequent failure.

1.1.12 Earthing

Location of earthing pits shall be shown on drawings so that those shall always remain open and accessible for testing and maintenance throughout the service period.

1.1.13 Restricted Access

Areas requiring restricted access to designated person, authorized to carry out electrical work therein shall be provided with necessary arrangements.

1.1.14 Sub stations / Generators / Battery rooms

Location of required civil structure shall be considered in advance with required height of room, door openings, firefighting system, ventilation etc.

1.2 Civil Planning and Constructional Requirements

It is important to plan activities of civil construction and electrical works in detail on bar chart or similar tools available in project planning. The bar chart shall be updated and coordination be monitored to avoid conflicts, breakages and reworking. Following points give general guidelines.

1.2.1 Fire rating

The electrical panel rooms, doors, segregation arrangement within shaft shall have fire rating of 2 hours or as per requirements mentioned under NBC, Central Electricity Authority (measures related to Safety and Electric Supply) Regulations, 2010 and further amendments.

1.2.2 Shafts / Ducts /Chambers

Design and location of cable ducts, shafts, chambers, their covers, and entry points, shall be as per shop drawings provided by electrical agency and shall be in consultation with, considering further aspects of maintenance / repairs / replacement. Size of chambers shall be in consideration with bending radii of cables. At every flooring level, there shall be a provision to seal these shafts, so that in case of fire, it shall not spread, or smoke shall not pass from one floor to other.

1.2.3 Openings and covers

Manholes / opening of chambers shall not be less than 650mm x 550mm or 650mm India., where opening is intended for entry of person. Covers of manholes, chambers shall bear sufficient strength to withstand loads likely to be imposed on the structure. Covers shall be marked with the name of the service.

Openings / covers of Junction boxes / draw-in boxes / accessories in conduit systems with inspection openings shall always be accessible.

1.2.4 Enclosures for underground cables

Pipes to be used for cable enclosures shall be of required diameter so that cable can pass through or removed from easily and have sufficient mechanical strength and shall be erected at required depth to suit requirements of IS 1255.

1.2.5 Wall thickness

Walls shall be of sufficient thickness to accommodate concealed boxes /switchboards / distribution boxes. So that installation of boxes will not affect strength of wall. Additional strengthening shall be considered if necessary.

NOTE : Depth of box may be 60 mm or vary depending on manufacturer's design. Under circumstances in 4"/100 mm wall it is not possible to accommodate these boxes back-to-back. Staggering may solve problem to certain extent.

1.2.6 Structural strength

In Wiring Installation where Cable Ladder, Tray system is used for cable management, its structure along with the load of cables which it is going to support, is likely to impose load on the primary structure of building. This situation occurs when supports of this system are fixed on building structure. For this building structure shall have capacity to bare the load.

At some locations there are chances of conduits getting crowded endangering structural strength due to number of circuits entering / passing out from the particular DB / panel. This situation may occur in beam, slab, and wall. If such situation is unavoidable necessary measures may be required to be taken to retain structural strength.

1.2.7 Sleeves / core cutting

As far as possible sleeves shall be got erected for entry of wires / cables through wall, flooring,

RCC structure during construction to avoid core cutting, damages and reworking at finishing stage. Sometimes core cuttings may be required which shall be done with the consent of structural engineer and under supervision of civil engineer.

1.2.8 Water leakages / seepages

Design shall take into consideration possible seepages, leakages, accumulation, and ground in-surge of water, which is hazardous to electrical installation. Required provisions shall be made at such locations to prevent and work shall be executed with due care.

1.2.9 Bathrooms / washrooms

Within bathrooms / washrooms, location of showers, faucets shall be such that during use, water shall not splash on switch boards / electrical outlets / fittings.

1.2.10 Tandems in Flat Slab post tension structures

For flat slab post tension structure's locations of tandems marking shall be made to avoid puncture of / damage to tandems during electrical construction activity.

1.2.11 Earthing

Any construction work, including excavation, subsequent to construction of earthing electrode/s ; it shall not disturb / damage any part of earthing system. Any civil work on construction site shall not cause cover-up / concealing of any portion of electrical earthing system without notice and consent of person In- Charge of electrical work.

1.2.12 Sub stations / Generators / Batteries

Trenches, ventilation, approach roads shall be provided as per necessity.

2. ELECTRICAL PROVISIONS

2.1 Statutory Obligations – Appointment of Licensed Electrical Contractor

Reg .29(1) shall be strictly followed by the Developer and work shall be got done through Licensed Electrical Contractor who shall submit Test Report of the work carried-out by him.

Developer may take undertaking from the Licensed Electrical Contractor, who shall be responsible to do the work through the qualified workmen having required permit in that regard. He shall also see that the material to be used, work and workmanship shall conform to respective norms, standards, and Regulations.

NOTE–All hidden work shall be checked for conformity with the standards prior to get it concealed, shall be certified by the contractor.

2.2 Statutory Obligations–Approvals /Permissions / Licenses

Required approvals shall be taken as per related Rules and Regulations mentioned below prior to the commissioning and handing over the installation for beneficial use.

- a) Central Electricity Authority (measures related to safety and electric supply) Regulations 2010 and amendments 2015, 2018
- b) Reg. 32 – Generator Inspection and approval for commissioning.
- c) Reg. 36 – Multi-storied building (height above 15m): inspection and NOC for commencement of supply
- d) Reg. 43 –Transformer sub-station or any installation above 660V : inspection and approval before commencement of supply

See Annexure C of above regulations for extract of Regulations.

2.3 Material

Material used for Electrical Installation shall conform to the respective Indian standards or International standards where relevant Indian Standards are not available. Technical Specification of material shall strictly adhere to the design, based on load, use, external influences and safety.

2.4 Wiring Installation

Electrical Installation shall conform to provisions from related sections of National Electrical Code (NEC) and National Building Code (NBC). See Annexure A for minimum / basic requirements from the point of view of Safety and functionality.

2.5 Transformer sub-station

Transformer sub-station providing supply to the building if located within building shall either use dry type transformer or a transformer filled with Synthetic Ester. Transformer filled with Natural ester shall be used only if transformer is sealed (without breather). For Transformer installed in separate room detached from building structure 7.5m away Mineral oil may be allowed.

2.6 Generator standby supply

For every high-rise building there must be a provision of generator supply as a standby arrangement which shall be of adequate capacity to cater load of all emergency systems for required time. Location and system of supply shall be such that functioning, and purpose of Generator will not be affected due to emergency like fire in building. If fire authority requires standby supply arrangement for fire-fighting system also, provision of generators shall be made accordingly.

2.7 Handing over Documents

It shall be a part of obligation on the developer to handover the documents belonging to the prospective owner for his information and which he will need him for reference and maintain as a record.

2.8 MCBs

For lighting circuit 6A MCB and for power circuit of powerpoint 16A MCB shall be used. For lighting circuits MCBs of B series may be used. For independent circuit of plug points C series MCB shall be provided. Circuits providing supply for appliances like Air-Conditioner / water-pump shall be provided MCBs of 'C' series. AC above 1.5 TR may be provided with MCB of 20 /25 A rating.

2.9 RCDs

Complete electrical installation must be protected against electrical shock by provision of Residual Current Device (also referred as ELCB/RCCB) having sensitivity of 30mA. RCDs may be provided more than one at suitable locations, to retain supply redundancy. In three phase DBs per phase protection may be provided. For installation having load 10kw and above, it is also recommended to provide RCD of 300mA sensitivity at the source / point of supply to provide protection against Fire due to leakage currents.

2.10 Main switchgears

Depending on load provision of MCCBs, Circuit breakers shall be made with precise rating of overload, short-circuits etc.

3. Provision in respect of High-Rise Building

3.1 Supply isolation during Emergency Sub Regulation (3) of CEA Regulation No.36 provides for arrangement to completely isolate the supply at the time of emergency. It shall be interpreted as below:

3.2 The provision of a device to isolate complete supply, also called Fireman's Switch, is aimed at restricting further danger of short circuits due to fire and spread of fire and shock hazard, restriction on use of Lifts and any other activity running on electrical supply which may aggravate the situation. However supply to emergency services like rescue operation; Fire- Fighting shall not get affected with the operation of this control.

3.3 Suitable arrangement shall be done at the point of supply to separate supply of emergency services make arrangements to identify and mark with instructions

CEA (Measures related to Safety and Electric Supply) Regulations 2010 made under section 53 read with section 177 of Electrical Act 2003 Regulation 29 (1):

No electrical installation work, including additions, alterations, repairs and adjustments to existing installations, except such replacement of lamps fans, fuses, switches, domestic appliances of voltage not exceeding 250V and fittings as in no way alters its capacity or character, shall be carried out upon the premises of or on behalf of any consumer, supplier, owner or occupier for the purpose of supply to such consumer, supplier, owner or occupier except by an Electrical Contractor licensed in this behalf by the State Government and under the direct supervision of a person holding a certificate of competency and by a person holding a permit issued or recognized by the State Government.

3.4 Regulation 12 (1):

All electric supply lines and apparatus shall be of sufficient rating for power, insulation and estimated fault current and of sufficient mechanical strength, for the duty cycle which they may be required to perform under the environmental conditions of installation, and shall be constructed, installed, protected, worked, and maintained in such a manner as to ensure safety of human beings, animals and property.

3.5 Regulation 12 (2):

Save as otherwise provided in these regulations, the relevant code of practice of The Bureau of Indian Standards or National Electrical Code, if any, may be followed to carry out the purposes of this regulation and in the event of any inconsistency, the provisions of these regulations shall

prevail.

3.6 Regulation 12 (3):

The material and apparatus used shall conform to the relevant specifications of the Bureau of Indian Standards or International Electro-Technical Commission where such specifications have already been laid down.

3.7 Regulation 12 (4):

All electrical equipment shall be installed above the Mean Sea level (MSL) as declared by local Municipal Authorities and where such equipment is to be installed in the basement, consumer shall ensure that the design of the basement should be such that there is no seepage or leakage or logging of water in the basement.

3.8 Regulation 36 (3): Provisions for supply and use of electricity in multistoried building more than 15 meters in height: Regulation 36 (3). The supplier or owner of the installation shall provide at the point of commencement of supply a suitable isolating device with cut-out or breaker to operate on all phases except neutral in the 3-phase, 4-wire circuit and fixed in a conspicuous position at not more than 1.70 meters above the ground so as to completely isolate the supply to the building in case of emergency.

- a) Color Coding for Phase / Live – Red / yellow / Blue
- b) Color Coding for Neutral – Black
- c) Color Coding for Earth – Green
- d) For light / bell wiring shall be two wire system .
- e) For ceiling fan / exhaust fan / Separate socket wiring shall be three wire system .

Circuit main for switch boards:-

Circuit main for switch board shall be 3 runs of 2.5sq.mm copper cable i.e for phase, neutral and Earth. That is from DB to switch board.

Circuit Main for 16A socket :-

Circuit mains for 16A sockets shall be 3 runs 4.0sq.mm from DB to 16A socket. Phase, neutral and earth conductor are equal in size (i.e sq.mm).

Circuit Main for AC socket:-

Circuit mains for AC socket shall be 3 Runs of 6.0sq.mm from DB to AC socket. Phase, neutral and earth conductor are equal in size (i.e sq.mm).

Note: Power circuit rated more than 1KW, size as per calculations.

Capacity of Circuits:

- I Lighting circuits shall feed light / fan / call bell points. Each circuit shall not have more than 800W Connected load or more than 10 points. In case of LED lights, where load per point may

be less, number of points may be suitably increased.

- II Power circuit in NRB will have only one outlet per circuit.
- III Each power circuit in residential buildings can feed following outlets.
 - Not more than 2 No's 16A socket outlets.
 - Not more than 4 No's 6A/ 10A socket outlets.
 - c) Not more than 1 No 16A & 2Nos 6A outlets.
- IV Load more than 1 KW shall be controlled by suitable rated MCB, and cable size shall be decided as per the load calculations and length of circuit mains.
- V. Load shall be distributed equally among the three phases.

**GOVERNMENT OF ANDHRA PRADESH
ABSTRACT**

Mines & Minerals – Amendment to the Rule 10 of the Andhra Pradesh Minor Mineral Concession Rules, 1966 - Orders – Issued.

INDUSTRIES AND COMMERCE (M.II) DEPARTMENT

G.O.MS.No. 11

Dated: 11-02-2020

Read the following:

1. G.O.Ms.No.198, Industries & Commerce (M.I) Dept., dt:13.08.2009.
2. GSR No.423 (E), dt:10.02.2015 from the Ministry of Mines, Govt. of India, New Delhi.
3. G.O.Ms.No.100, Industries & Commerce (M.II) Dept., dt:31.10.2015.
4. G.O.Ms.No.105, Industries & Commerce (M.II) Dept., dt:13.11.2015.
5. G.O.Ms.No.38, Industries & Commerce (M.II) Dept., dt:17.03.2016.
6. G.O.Ms.No.156, Industries & Commerce (M.II) Dept., dt:03.11.2016.
7. G.O.Ms.No.131, Industries & Commerce (M.II) Dept., dt:04.10.2017.
8. G.O.Ms.No.18, Industries & Commerce (M.II) Dept., dt:29.01.2018.
9. G.O.Ms.No.28, Industries & Commerce (M.II) Dept., dt:17.04.2018.
- 10.G.O.Ms.No.49, Industries & Commerce (M.II) Dept., dt:21.02.2019.
- 11.Proposal from the Director of Mines & Geology, vide e-fileNo:[INC04-17021\(34\)/1/2019-PLANNING SEC-DMG](#) received by the Government on dt. 11.12.2019.

ORDER:

After careful examination of the proposal received from the Director of Mines & Geology, Andhra Pradesh, Ibrahimpatnam in the letter 11th read above, the Government hereby decided to amend the Rule 10 of Andhra Pradesh Minor Mineral Concession Rules, 1966 for enhancing the existing Seigniorage fee and Dead Rent in respect of Minor Minerals.

2. The following notification will be published in the Extra-ordinary issue of the Andhra Pradesh Gazette, dated:11.02.2020.

NOTIFICATION

In exercise of the powers conferred by sub-section (1) of section 15 of the Mines & Minerals (Development and Regulation) Act, 1957 (Central Act 67 of 1957), the Governor of Andhra Pradesh hereby makes the following amendments to the Andhra Pradesh Minor Mineral Concession Rules, 1966 issued in G.O.Ms.No.1172, Industries and Commerce Department, dated. 04.09.1967 and subsequent amended from time to time.

AMENDMENT

In the said rules, under Rule 10 for Schedules I and II, the following shall be substituted, namely

"SCHEDULE-I"
RATES OF SEIGNIORAGE FEE

Sl. No.	Name of the Minor Mineral	Units	Rate of Seigniorage Fee (in Rupees)
1	Agate	M.T.	Rs. 145 (Rupees One Hundred and Forty Five)
2	Ball Clay	M.T.	Rs. 75 (Rupees Seventy Five)
3	Barytes		
	i. Grey Colour - A Grade	M.T.	Rs. 480 (Rupees Four Hundred and Eighty)
	ii. Grey Colour - B Grade	M.T.	Rs. 355 (Rupees Three hundred and Fifty Five)
	iii. Grey Colour - C + D + Waste Grade	M.T.	Rs. 220 (Rupees Two Hundred and Twenty)
	iv. White Colour	M.T.	Rs. 1,100 (Rupees One Thousand and One hundred)
	v. Off Colour Other than Grey	M.T.	Rs. 500 (Rupees Five Hundred)
4	Building Stone	M3/M.T.	Rs. 90/60 (Rupees Ninety / Sixty)
5	Calcareous Sand	M.T.	Rs. 90 (Rupees Ninety)
6	Calcite	M.T.	Rs. 90 (Rupees Ninety)
7	Chalcedony Pebbles	M3/M.T.	Rs. 90/60 (Rupees Ninety / Sixty)
8	Chalk	M.T.	Rs. 95 (Rupees Ninety Five)
9	China Clay	M.T.	Rs. 60 (Rupees Sixty)
10	Clay (Others)	M.T.	Rs. 60 (Rupees Sixty)
11	Corundum	M.T.	Rs. 120 (Rupees One Hundred and Twenty)
12	Diaspore	M.T.	Rs. 415 (Rupees Four hundred and fifteen)
13	Dimensional Stone used for Kerbs& Cubes	M.T.	Rs.135 (Rupees One hundred and Thirty Five)
14	Dolomite	M.T.	Rs. 100 (Rupees One Hundred)

15	Dunite or Pyroxinite	M.T.	Rs. 60 (Rupees Sixty)
16	Feldspar	M.T.	Rs. 100 (Rupees One hundred)
17	Felsite	M.T.	Rs. 130 (Rupees One hundred and thirty)
18	Fireclay	M.T.	Rs. 60 (Rupees Sixty)
19	Fullers Earth/ Bentonite	M.T.	Rs. 180 (Rupees One Hundred and Eighty)
20	Fuschite Quartzite	M.T.	Rs. 90 (Rupees Ninety)
21	Granite useful for cutting and polishing purpose		

	Item	Unit	Super Gang Sawequal and above 300cmx180cm size	Mini Gang Sawequal and above 270cmx150cm size	270cm X 150 cm & Below size	Below 75cm size
i.	Black Galaxy Granite Variety	M3/ MT	Rs.4600/ Rs.1415 (Rs. Four thousand six hundred/Rs. One thousand four hundred fifteen)	Rs.3680/ Rs.1130 (Rs. Three thousand six hundred eighty/Rs. One thousand one hundred thirty)	Rs.3450 / Rs.1060 (Rs. Three thousand four hundred fifty/ Rs. One thousand sixty)	Rs.1550/ Rs.480 (Rs. One thousand five hundred fifty/ Rs. Four Hundred eighty)
ii.	Black Granite other than Galaxy variety	M3/ M.T.	Rs.3450/ Rs.1150 (Rs. Three thousand four fifty/Rs. One thousand one hundred fifty)	Rs.2875/ Rs.960 (Rs. Two thousand eight hundred seventy five/Rs. nine hundred sixty)	Rs.2700/ Rs.900 (Rs. Two thousand Seven hundred / Rs. Nine hundred)	Rs.1150/ Rs.385 (Rs. One thousand one hundred fifty/ Rs. Three Hundred eighty five)
iii.	Colour Granite Srikakulam Blue, Moon white, River white of Visakhapatnam Dist., Leptinites of Coastal Dists., Black pearl of Prakasam and	M3/ M.T.	Rs.3,450/ Rs.1,255 (Rs. Three thousand four fifty/Rs. One thousand two hundred fifty five)	Rs.2,875/ Rs.1,045 (Rs. Two thousand eight hundred seventy five/Rs. One thousand forty five)	Rs.2,700/ Rs.980 (Rs. Two thousand Seven hundred / Rs. Nine hundred and eighty)	Rs.1150/ Rs.420 (Rs. One thousand one hundred fifty/ Rs. Four Hundred twenty)

	Guntur Dists.					
iv.	Colour Granite of other varieties	M3/ M.T.	Rs.2700/ Rs.985 (Rs. Two thousand seven hundred/Rs. Nine hundred eighty five)	Rs.2470/ Rs.900 (Rs. Two thousand four hundred seventy/Rs.Nine hundred)	Rs.2300 / Rs.835 (Rs. Two thousand three hundred / Rs. Eight hundred and thirty five)	Rs.1150/ Rs.420 (Rs. One thousand one hundred fifty/ Rs. Four Hundred twenty)
v.	Kuppam Grey Granite available in Santhipuram& Ramakuppam mandals of Chittoor District	M3/ M.T.	Rs.1925/ Rs.700 (Rs. One thousand nine hundred twenty five/Rs. Seven hundred)	Rs.1650/ Rs.600 (Rs. One thousand six hundred fifty/Rs. Six hundred)	Rs.1375 / Rs.500 (Rs. One thousand three hundred and seventy five/ Rs. Five hundred)	Rs.1100/ Rs.400 (Rs. One thousand one hundred / Rs. Four Hundred)
vi.	Chittoor Colour Granite (Other than Silver-waves, Madanapalli white and Iscon white)	M3/ M.T.	Rs.1925/ Rs.700 (Rs. One thousand nine hundred twenty five/Rs. Seven hundred)	Rs.1650/ Rs.600 (Rs. One thousand six hundred fifty/Rs. Six hundred)	Rs.1375 / Rs.500 (Rs. One thousand three hundred seventy five/ Rs. Five hundred)	Rs.1100/ Rs.400 (Rs. One thousand one hundred / Rs. Four Hundred)
22	Gypsum			M.T.		Rs. 150 (Rupees One Hundred and Fifty)
23	Jasper			M.T.		Rs. 145 (Rupees One Hundred and Forty Five)
24	Kaolin			M.T.		Rs. 60 (Rupees Sixty)
25	Laterite					
	i. Dispatched for use in Alumina &Aluminium metal extraction			M.T.		Rs. 200 (Rupees Two Hundred)
	ii. For use other than Alumina and Aluminium metal extraction and export			M.T.		Rs. 100 (Rupees One Hundred)
26	Lime Kankar/ Limestone			M.T.		Rs. 90 (Rupees Ninety)
27	Lime Shell			M.T.		Rs. 120 (Rupees One Hundred and Twenty)
28	Limestone Slabs:					
	i. Color			Sq.Mt/ M.T.		Rs. 10 (Rupees Ten) per Sq.Mtor Rs.120

	ii. White	Sq.Mt/ M.T.	(Rupees One Hundred and Twenty) per MT whichever is higher
	iii. Black	Sq.Mt/ M.T.	Rs. 6 (Rupees Six) per Sq.Mtor Rs.110 (Rupees One Hundred and Ten) per MT whichever is higher
29	Manufactured Sand	M3/M.T.	Rs. 90/60 (Rupees Ninety / Sixty)
30	Marble	M3/M.T.	Rs. 300/120 (Rupees Three Hundred / One Hundred and twenty)
31	Mica		-
	i. Crude	M.T.	Rs. 2,000 (Rupees Two Thousand)
	ii. Scrap	M.T.	Rs. 750 (Rupees Seven Hundred and Fifty)
32	Morum/ Gravel & Ordinary Earth	M3/M.T.	Rs. 45/30 (Rupees Forty five / Thirty)
33	Mosaic Chips	M.T.	Rs. 90 (Rupees Ninety)
34	Ochre	M.T.	Rs. 60 (Rupees Sixty)
35	Ordinary Clay, Silt and Brick Earth used in the Manufacture of Bricks including Mangalore Tiles		Rs. 8,000 (Rupees Eight Thousand) Per Kiln Per Annum for Bricks and Tiles
36	Ordinary Sand	M3/M.T.	Rs. 100/ Rs. 66 (Rupees One Hundred/Rs. Sixty Six)
37	Pyrophillite	M.T.	Rs. 200 (Rupees Two Hundred)
38	Quartz	M.T.	Rs. 90 (Rupees Ninety)
39	Quartzite	M.T.	Rs. 90 (Rupees Ninety)
40	Rehmati	M3/M.T.	Rs. 35/ Rs. 25 (Rupees Thirty five/Twenty five)
41	Road Metal & Ballast	M3/M.T.	Rs. 90/60 (Rupees Ninety / Sixty)
42	Rough Stone/ Boulders	M3/M.T.	Rs. 90/60 (Rupees Ninety / Sixty)
43	Sand (Others)	M.T.	Rs. 100 (Rupees One Hundred)

44	Shale	M.T.	Rs. 180 (Rupees One Hundred and Eighty)
45	Shingle	M3/M.T.	Rs. 90/60 (Rupees Ninety / Sixty)
46	Silica Sand	M.T.	Rs. 100 (Rupees One Hundred)
47	Slate	M.T.	Rs. 175 (Rupees One hundred and Seventy five)
48	Steatite or Talc or Soapstone		
	i. Filler Grade	M.T.	Rs. 100 (Rupees One Hundred)
	ii. Other Grade	M.T.	Rs. 550 (Rupees Five hundred and Fifty)

SCHEDULE-II

RATES OF DEAD RENT

S.No	Name of the Minor Mineral	Rate of Dead Rent per hectare per annum (In Rupees)
1	Black Galaxy Granite and Black Granite	Rs. 1,30,000/- (Rs. One Lakh Thirty Thousand)
2	All Colour Granite varieties	Rs. 1,30,000/- (Rs. One Lakh Thirty Thousand)
3	Limestone other than classified as major minerals used for lime burning for Building construction purposes, marble, boulders, building stone including stone used for Road Metal, Ballast, Manufactured sand, concrete & other construction purpose, Shale, Slate & Phyllites, Mosaic Chips, Fullers Earth/Bentonite & Dimensional Stone used for Cubes and Kerbs	Rs. 65,000/- (Rs. Sixty Five thousand)
4	Gravel, Morrums, Ordinary Earth, Shingle, Limestone Slabs used for flooring purpose Limekankar, Chalcedony Pebbles used in the building purpose Limeshell for burning used for building purpose and Rehmati.	Rs. 52,000/- (Rs. Fifty two thousand)
5	Barytes and Laterite	Rs. 26,000/-

		(Rs. Twenty Six Thousand)
6	Agate, Corundum, Diaspore and Fluorite	Rs. 20,000/- (Rs. Twenty Thousand)
7	Mica	Rs. 15,000/- (Rs. Fifteen Thousand)
8	All minor minerals which are not covered under Serial number 1 to 7 above.	Rs. 20,000/- (Rs. Twenty Thousand)

3. This order shall come in to force with immediate effect.

4. This order issues with the concurrence of Finance Department vide their U.O. No. FMU0ASD(IC)/111/2019-FMU-IIEIC, dt.09.01.2020 (Computer No.1063684).

[BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH]

K. RAMGOPAL
PRINCIPAL SECRETARY TO GOVERNMENT (MINES)

To

The Commissioner of Printing, Stationary & Stores Purchase (Ptg. Wing),
Vijayawada. (He is requested to publish the above Notification in the
Extra-ordinary issue of Andhra Pradesh, and arrange to send
1000 copies of the same to Govt. Ind. & Com. (M.II) Department).

The Director of Mines & Geology, Andhra Pradesh, Ibrahimpatnam.

The Chief Executive Officer, SERP, Vijayawada.

All the Joint Director /Deputy Director / Asst. Director of Mines & Geology through the
Director of Mines & Geology, Ibrahimpatnam.

Copy to:

The Secretary to Govt, Ministry of Mines, Govt. of India, Shastry Bhawan, New Delhi.

The Law Department. / The Finance Department.

The P.S to Minister for Mines & Geology. / The PS to Prl. Secretary to Govt., (Mines).

SF/SC (e-file No. [INC04-17021\(34\)/1/2019-PLANNING SEC-DMG](#), Comp. No.1052464)