Government of Andhra Pradesh

COMMON SCHEDULE OF RATES
AS PER
A.P. REVISED STANDARD
DATA FOR THE YEAR 2021-22

(Effective from 1st June, 2021)

BOARD OF CHIEF ENGINEERS

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

Procs.No.ENC/IW/P&M/EE.1/DEE-3/AEE (N)/ SoR 2021-22/Vol.1 dt: 28.07.2021

Sub: Schedule of Rates for the year 2021-22 with basic rates (excluding GST) (as per A.P.Revised Standard Data) -Part-I(Water Resources Dept. Works), Part-2(Road & Bridge Works) 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. ENC (PH) Lr.No. 146/T4/SoR 2021-22 dt: 07.07.2021.
3. ENC(R&B), Admn & NDB Lr.No.SoR-II/ ENC/ DEC(R)/ EE (TEC)/ DEE 6/AEE2 /2021 dt: 24.06.2021.
4. Commissioner of Labour, Andhra Pradesh, Vijayawada vide Proceedings no.J / 3984 /2021 dt.29.04.2021 under Minimum Wages Act, 1948.
5. T.O. Lr. No. ENC/ IW/SE (P&M)/ EE.I/ DEE.3/ AEE (N)/ SoR 2021-22/ Vol.I dt. 26.07.2021
6. ENC (PH) Lr.No. 146/T4/SoR 2021-22 dt:28.07.2021.
7. ENC (R&B),Admin Lr.No.SoR-II/ENC/DCE(R)/ EE(TEC)/ DEE6 /AEE2 /2021 dt: 27. 07.2021.
8. C.E Buildings Vijayawada Lr No.20938/SOR/DCE(B)/EE(B)/DEE(B)/AEE/2021 Dt.20.07.2021.

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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 2021-22 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 2021-22.

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 2nd 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 4th cited.

Based on the above proposals, the draft Schedule of Rates for the part-I (WR items), Part-II(Roads & Bridge items) & Part-IV(PH items) are prepared for the SoR year 2021-22 and placed before the annual Board of Chief Engineers(BoCEs) meeting for approval. The BoCEs has reviewed and finalized the rates of above three parts during the

annual SoR meeting held on 08.07.2021 in the conference hall of Engineer-in-Chief (A.W/I.W), Vijayawada and by virtual meeting held on 22.07.2021.

The minutes containing the recommendations of the BoCEs, vide reference 5th cited, are communicated to ENC(R&B) and ENC (PH) for updating the draft rates.

Based on the minutes of meeting, the ENC (PH) and ENC(R&B), Admin have furnished, vide references 6th and 7th cited above, the final copies of PART-II and PART-IV respectively for incorporating into SoR-2021-22. Chief Engineer Buildings, Vijayawada has also submitted the Part-III (Buildings) for SOR 2021-22 vide reference 8th cited.

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.

An unique CFMS code for each material is introduced in SoR 2021-22 for the sake of user convenience.

No other items other than the items communicated now by this Office shall be introduced in the SoR 2021-22.

The Heads of Department and Officers mentioned below are authorized to print the Schedule of Rates for the year 2021-22. Unauthorized printing & selling of the SoR is strictly prohibited.

Any discrepancies found (or) corrections required in SoR 2021-22 may be brought to the notice of undersigned for issuing corrections.

The revised rates will come into force with effect from 1st June of 2021.

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

Encl: SoR 2021-22 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,28.07.2021
Engineer-in-Chief (A.W/ I.W)
Chairman, BOCE (SoR)
Water Resources Department

I. Copy submitted to the 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 2021-22 with basic rates & Standard data, part-1 (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-2021-22 (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,28.07.2021
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-1) 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-1) may be brought to the notice of undersigned for issuing corrections.

Sd/-R.Sathish Kumar.dt.28.07.2021
Engineer-in-Chief (A.W/I.W)
Chairman, BOCE(SoR)
Water Resources Department

Index – WR Items (Part-I)

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PREAMBLE

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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, Ibrahimpatnam, 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 & upto16 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 off 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 2021-22
1	2	3	4
I.		**SKILLED CATEGORY:**	
1	LAB-00001	Bar bender	**700**
2	LAB-00002	Black smith / Tin smith / Rivetor	**550**
3	LAB-00003	Blaster	**645**
4	LAB-00004	Carpenter Cl- I	**655**
5	LAB-00005	Electrician (Licensed)	**650**
6	LAB-00006	Fitter Cl- I	**615**
7	LAB-00007	Floor Polisher / Tile Layer	**550**
8	LAB-00008	Foreman	**645**
9	LAB-00009	Gauge reader	**545**
10	LAB-00010	Maistry / Work Inspector with Non-technical Qualification SSLC/SSC/HSC	**640**
11	LAB-00011	Mason Cl- I / Brick layer Cl- I	**585**
12	LAB-00012	Mechanic Cl- I	**590**
13	LAB-00013	Operator Air compressor / DG set	**575**
14	LAB-00014	Operator Batching plant	**650**
15	LAB-00015	Operator Bus/Ambulance/ Lorry/ Tanker	**630**
16	LAB-00016	Operator Concrete / Asphalt mixer	**575**
17	LAB-00017	Operator Concrete / Asphalt paver	**575**
18	LAB-00018	Operator Concrete pump / Placer/ ice plant	**575**
19	LAB-00019	Operator Core drilling machine	**645**
20	LAB-00020	Operator Crane/ Tower crane/ Cable way	**645**
21	LAB-00021	Operator Drilling jumbo / Loco / Winch	**575**
22	LAB-00022	Operator Grouting/ Guniting/ Shotcreting	**575**
23	LAB-00023	Operator Jackhammer/Pneumatic tamper	**575**
24	LAB-00024	Operator Pump / Ventilation fan	**575**
25	LAB-00025	Operator Lathe/Drilling/Shearing machine	**645**
26	LAB-00026	Operator Bending / Planing machine	**575**
27	LAB-00027	Operator Road roller	**590**

Sl No.	CFMS CODE	CATEGORY OF WORKER	S. Rate for 2021-22
1	2	3	4
28	LAB-00028	Operator Shovel / Scraper / Dozer	**645**
29	LAB-00029	Operator Spillway / Sluice gate	**575**
30	LAB-00030	Operator Crusher / Conveyor / Mucker	**575**
31	LAB-00031	Operator Tipper / Dumper / Transit mixer	**645**
32	LAB-00032	Operator Concrete vibrator	**575**
33	LAB-00033	Operator Vibratory plain / pad foot roller	**575**
34	LAB-00034	Operator Wagon drill / Drifter	**645**
35	LAB-00035	Painter Cl- I	**655**
36	LAB-00036	Plumber / Pipe fitter	**655**
37	LAB-00037	Sarang / Khalasi	**575**
38	LAB-00038	Spun pipe moulder	**575**
39	LAB-00039	Stone chiseller CI- I / Stone cutter Cl- l	**580**
40	LAB-00040	Struct. steel Fabricator / Marker / Erector	**700**
41	LAB-00041	Welder / Gas Cutter	**575**
42	LAB-00042	Welder (X-ray quality)	**645**
II.		**SEMI SKILLED CATEGORY:**	
1	LAB-00057	Asphalt Sprayer / Boiler attendant	**525**
2	LAB-00058	Bhisti	**525**
3	LAB-00059	Boatman with boat	**525**
4	LAB-00060	Carpenter Cl- II / Erector shuttering	**525**
5	LAB-00061	Cartman with double bullock cart	**585**
6	LAB-00062	Cartman with single bullock cart	**550**
7	LAB-00063	Chavali / Navagani	**525**
8	LAB-00064	Crowbarman / Jumper man	**525**
9	LAB-00065	Fitter Cl- II	**525**
10	LAB-00066	Gang man / Head / Survey mazdoor	**525**
11	LAB-00067	Gardener / Trained mali	**525**
12	LAB-00068	Air compressor / DG set	**525**
13	LAB-00069	Helper Batching plant	**525**
14	LAB-00070	Helper Blasting	**525**

Sl No.	CFMS CODE	CATEGORY OF WORKER	S. Rate for 2021-22
1	2	**3**	**4**
15	LAB-00071	Helper Bus/ Ambulance/ Lorry/ Tanker	**525**
16	LAB-00072	Helper Bending/Shearing/Planing machine	**525**
17	LAB-00073	Helper Carpenter	**525**
18	LAB-00074	Helper Concrete / Asphalt mixer	**525**
19	LAB-00075	Helper Concrete / Asphalt paver	**525**
20	LAB-00076	Helper Core drilling machine	**525**
21	LAB-00077	Helper Crane/ Tower crane/ Cable way	**525**
22	LAB-00078	Helper Drilling jumbo / Loco / Winch	**525**
23	LAB-00079	Helper Fitter / Fabrication/Electrician	**525**
24	LAB-00080	Helper Grouting/ Guniting/ Shotcreting	**525**
25	LAB-00081	Helper Jack hammer / Pneumatic tamper	**525**
26	LAB-00082	Helper Laboratory / Instrumentation	**525**
27	LAB-00083	Helper Road roller	**525**
28	LAB-00084	Helper Shovel / Scraper / Dozer	**525**
29	LAB-00085	Helper Crusher / Conveyor / Mucker	**525**
30	LAB-00086	Helper Tipper / Dumper/ Transit mixer	**525**
31	LAB-00087	Helper Vibrator	**525**
32	LAB-00088	Helper Vibratory plain/ pad foot roller	**525**
33	LAB-00089	Helper Wagon drill/ Drifter	**525**
34	LAB-00090	Lineman Electric / Telephone	**525**
35	LAB-00091	Mason Cl- ll / Brick layer Cl-II	**525**
36	LAB-00092	Mechanic Cl- II	**525**
37	LAB-00093	Painter Cl- II	**525**
38	LAB-00094	Patkari / Neeraganti / Sowdy	**525**
39	LAB-00095	Stone Chiseller Cl- II	**525**
40	LAB-00096	Stone breaker / Hammer man	**525**
41	LAB-00097	Valve man / Canal sluice operator	**525**
III.		**UN-SKILLED CATEGORY:**	
1	LAB-00118	Cement / Asphalt handling mazdoor	**490**
2	LAB-00119	Civic worker	**490**
3	LAB-00120	Man mazdoor	**490**

Sl No.	CFMS CODE	CATEGORY OF WORKER	S. Rate for 2021-22
1	**2**	**3**	**4**
4	LAB-00121	Woman mazdoor	**490**
5	LAB-00122	Watchman	**490**
IV.		**OTHER CATEGORY:**	
1	LAB-00124	Care-taker / conductor / Lift Attender	**525**
2	LAB-00125	Cook / Mess man	**525**
3	LAB-00126	Dhobi	**525**
4	LAB-00127	Diploma Engineer / Surveyor	**910**
5	LAB-00128	Diver with headgear	**670**
6	LAB-00129	Graduate / Laboratory Assistant	**670**
7	LAB-00130	Graduate Engineer/ Geologist	**1,170**
8	LAB-00131	Horticulture Assistant / Photographer	**540**
9	LAB-00132	ITI certificate holder / Tracer / Printer	**655**
10	LAB-00133	Literate mazdoor	**505**
11	LAB-00134	Stenographer / Computer Operator	**715**
12	LAB-00135	Telephone / Wireless Operator	**645**
13	LAB-00136	Typist / Job Typist	**645**
14	LAB-00137	CAD operator with Diploma in Engineering/General degree with CAD certificate	**910**
15	LAB-00138	Jeep Driver	**640**
16	LAB-00139	Data Processing Operator	**875**

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: 2021-22
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 2021-22
1	**2**	**3**	**4**	**5**
1	MAT-00001	Acetylene gas	cum	**350**
2	MAT-00002	Asphalt 80/100 Grade	Kg	**44**
3	MAT-00003	Binding wire	Kg	**64**
4	MAT-00004	Burnt stone slab 10 cm thick	sqm	**324**
5	MAT-00005	Cement 43 Gr/53 Gr **Note: Rate as fixed by the Government**	tonne	**3,680**
6	MAT-00006	Chequered plate	Kg	**61**
7	MAT-00007	Coarse aggregate 10-4.75 mm	cum	**967**
8	MAT-00008	Coarse aggregate 20-10 mm	cum	**1,313**
9	MAT-00009	Coarse aggregate 40-20 mm	cum	**1,265**
10	MAT-00010	Coarse aggregate 80-40 mm	cum	**697**
		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, Dolamite, Dolerite and Trap. (Quartzite and Basalt with aggregate impact of less than 20)		
11	MAT-00011	Coir brush	Each	**48**

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2021-22
1	2	3	4	5
12	MAT-00012	Copper sheet 16 SWG	Kg	**708**
13	MAT-00013	Coursed rubble stone 30 x 30 x 45 cm	Each	**27**
14	MAT-00014	Coursed rubble stone 30 x 30 x 60 cm	Each	**30**
15	MAT-00015	Curing Compound	Ltr	**130**
16	MAT-00016	D – cord	Rm	**7**
17	MAT-00017	Delay - noiseless trunk	Each	**19**
18	MAT-00018	Detonating fuse coil	Rm	**8**
19	MAT-00019	Detonating shock tube / Cord relays	Rm	**37**
20	MAT-00020	Detonator delay type	Each	**20**
21	MAT-00021	Detonator electric	Each	**10**
22	MAT-00022	Detonator ordinary	Each	**7**
23	MAT-00023	Empty cement bag	Each	**6**
24	MAT-00024	Explosive ANFO	Kg	**44**
25	MAT-00025	Explosive ANFO high strength booster	Kg	**69**
26	MAT-00026	Explosive small dia (Kelvex-220 or equivalent)	Kg	**69**
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	**91**
30	MAT-00031	Geo-textile (filter fabric) 200 gsm	Sqm	**108**
31	MAT-00032	Geo-textile (filter fabric) 250 gsm	Sqm	**122**
32	MAT-00033	G I Pipe 100 mm dia B Class	Rm	**762**
33	MAT-00034	G I Pipe 15 mm dia A class	Rm	**92**

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2021-22
1	2	3	4	5
34	MAT-00035	G I pipe 25 mm dia A class	Rm	**155**
35	MAT-00036	G I pipe 40 mm dia B class	Rm	**237**
36	MAT-00037	G I pipe 50 mm dia A class	Rm	**277**
37	MAT-00038	G I Pipe 80 mm dia B Class	Rm	**512**
38	MAT-00039	G.I Bolts / Nuts and Washers	Kg	**108**
39	MAT-00040	G.I sheet (plain)	tonne	**60,000**
40	MAT-00041	Hariyala turfing sods	Sqm	**28**
41	MAT-00042	Hectometer stone one line dressed	Each	**304**
42	MAT-00043	Hemp yarn	Kg	**79**
43	MAT-00044	Honne wood planks	Cum	**46,000**
44	MAT-00045	Hume pipe with collar 150 mm dia	Rm	**277**
45	MAT-00046	Hume pipe with collar 300 mm dia	Rm	**571**
46	MAT-00047	J- Bolts 30 cm long	Each	**41**
47	MAT-00048	Jungle wood planks	Cum	**19,638**
48	MAT-00049	Khandki stone 15 to 20 cm height	Each	**14**
49	MAT-00050	Khandki stone 20 to 25 cm height	Each	**19**
50	MAT-00051	Khandki stone 25 to 30 cm height	Each	**20**
51	MAT-00052	Kilometer stone one line dressed	Each	**539**
52	MAT-00053	LDPE sheet (Geo membrane) 500 micron thick	Sqm	**94**
53	MAT-00054	LDPE sheet (Geo membrane) 750 micron thick	Sqm	**134**
54	MAT-00055	LDPE sheet (Geo membrane) 1000 micron thick	Sqm	**187**
55	MAT-00056	M S Bolts / Nuts / Washers	Kg	**86**
56	MAT-00057	Murrum	Cum	**215**
57	MAT-00058	Oxalic acid	Ltr	**76**
58	MAT-00059	Oxygen gas	Cum	**43**
59	MAT-00060	PVC sealing strip	Rm	**44**

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2021-22
1	2	3	4	5
60	MAT-00061	PVC water stopper 310 mm wide	Rm	**459**
61	MAT-00062	PVC pipe of 100 mm dia	Rm	**164**
62	MAT-00063	Reinforcement steel (HYSD/TMT) **Note: As per Monthly rate fixed by Sub-Committee**	tonne	**52,500**
63	MAT-00064	Resin bond Cement capsule	Each	**48**
64	MAT-00065	Rough stone 20 x 20 x 75 cm	Each	**27**
65	MAT-00066	Shahabad stone slab	Sqm	**266**
66	MAT-00067	Stone chips (at dump yard/Spoil)	Cum	**209**
67	MAT-00068	Stone chips (at quarry)	Cum	**385**
68	MAT-00069	Structural steel angle / channel / beam / bars **Note: As per Monthly rate fixed by Sub-Committee**	Tonne	**50,500**
69	MAT-00070	Structural steel plate / flats **Note: As per Monthly rate fixed by Sub-Committee**	Tonne	**52,000**
70	MAT-00071	Super Plasticizer (Conplast RP-264 or equivalent)	Kg	**55**
71	MAT-00072	Synthetic Enamel paint 1st quality	Ltr	**238**
72	MAT-00073	Synthetic adhesive (Resin + Hardener)	Kg	**331**
73	MAT-00074	Tar felt joint filler board 12 mm thick	Sqm	**385**
74	MAT-00075	Tar felt joint filler board 20 mm thick	Sqm	**593**
75	MAT-00076	Through stones 20 x 20 x 30 to 45 cm	Each	**24**
76	MAT-00077	Through stones 25 x 25 x 45 to 60 cm long	Each	**43**
77	MAT-00078	Through stones 30 x 30 x 65 to 75 cm long	Each	**65**
78	MAT-00079	Un-coursed rubble stones (at dump yard /Spoil)	Cum	**181**
79	MAT-00080	Un-coursed rubble stones (at quarry)	Cum	**359**
80	MAT-00081	Water proofing compound	Kg	**79**
81	MAT-00082	Welding electrodes 4 mm dia	Each	**14**
82	MAT-00083	Wire brush	Each	**42**

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2021-22
1	2	3	4	5
83	MAT-00084	Wire mesh 20 gauge	sqm	**235**
84	MAT-00085	Zinc chromate red oxide primer paint	Ltr	**169**
85	MAT-00086	inorganic zinc silicate	Ltr	**574**
86	MAT-00087	solvent less coal tar epoxy paint	Ltr	**280**
87	MAT-00088	Zinc phosphate primer	Ltr	**212**
88	MAT-00089	Allkyd based iron oxide paint	Ltr	**161**
89	MAT-00090	a) Cost of hdpe (90mm dia)	Rm	**217**
	MAT-00091	b) light black MS casing pipe 100 mm dia (4mm thick)	Rm	**471**
90	MAT-00092	welded steel wire fabric 100X100X5 mm size	Kg	**193**
91	MAT-00093	Protective Mastic	Ltr	**472**
92	MAT-00094	Solventless coal tar epoxy (brown)	Ltr	**292**

ADDITIONAL MATERIALS FOR GATES & HOISTS
FOR THE YEAR: 2021-22

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 2021-22
1	2	3	4	5
1	MAT-00108	Alloy steel (IS : 1570-carbon steel) shafts	Kg	**235**
2	MAT-00109	Alloy steel (IS : 1570-stainless steel) pins	Kg	**434**
3	MAT-00110	Bolt / Nut / Washer (hot dipped galvanized)	Kg	**142**
4	MAT-00111	Bolt / Nut / Washer (stainless steel)	Kg	**368**
5	MAT-00112	Bronze/Aluminum alloy(IS:305)bearings/bushes	Kg	**962**
6	MAT-00113	Cast iron blocks	Kg	**85**
7	MAT-00114	Cast steel drums / gears	Kg	**233**
8	MAT-00115	Cast steel pinions	Kg	**224**
9	MAT-00116	Cast steel wheels / pulleys / hubs / rollers / Retainers	Kg	**193**
10	MAT-00117	Chemical for de-greasing/ de-rusting/phosphate Coating	Ltr	**129**
11	MAT-00118	Coal tar epoxy paint	Ltr	**192**
12	MAT-00119	Forged steel hooks / shackles	Kg	**274**
13	MAT-00120	MS pipe 200 / 300 mm dia	Kg	**175**
14	MAT-00121	MS pipe 32 mm dia	Rm	**187**
15	MAT-00122	MS pipe 25 mm dia	Rm	**157**
16	MAT-00123	Rubber bottom seal (IS : 11855) (100mmX14 mm)	Rm	**670**
17	MAT-00124	Rubber side seal (music note type Teflon claded) (IS : 11855) (36ØX113mmX14mm)	Rm	**1,430**
18	MAT-00125	Rubber side seal (music note type uncladed) (IS : 11855) (36ØX113mmX14mm)	Rm	**1,068**

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2021-22
1	2	3	4	5
19	MAT-00126	Rubber side seal Z-type (IS : 11855) (36ØX120mmX19mm)	Rm	**1,372**
20	MAT-00127	Rubber corner seal (Teflon claded) (IS : 11855) (36Ø)	Each	**1,429**
21	MAT-00128	Rubber corner seal (un claded) (IS : 11855) (36Ø)	Each	**1,007**
22	MAT-00129	Stainless steel plates / flats	Kg	**289**
23	MAT-00130	Welding electrode 4 mm dia x 450 mm (radiographic low hydrogen)	Each	**19**
24	MAT-00131	Welding electrode 4 mm dia x 450 mm (stainless steel)	Each	**23**
25	MAT-00132	Wire rope 6x37 constn (IS : 2266)	Kg	**203**
26	MAT-00133	Zinc	Kg	**190**
27	MAT-00134	Zinc rich (zinc content : 90 %) epoxy primer	Ltr	**613**

MATERIALS FOR POWER SUPPLY WORKS

FOR THE YEAR : 2021-22

Sl No.	Description of Material	Unit	S. Rate for 2021-22
1	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	Flood light 500 W	Each	
3	Flood light set	Each	
4	Flouscent tube light 40 W	Each	
5	Flouscent tube light set	Each	
6	HT / LT Circuit breaker with accessories	Set	
7	HT / LT Line conductor	1000 m	
8	PVC Armoured cable 10 sqmm and below	Rm	
9	PVC Armoured cable 16 sqmm	Rm	
10	PVC Armoured cable 25 sqmm	Rm	
11	PVC Armoured cable 70 sqmm	Rm	

DETAILS OF CAPITAL COST OF MACHINERY / EQUIPMENT FOR THE YEAR: 2021-22

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 2021-22
1	2	3	4	5
1	MAT-00600	Agitator car / Transit mixer 2 cum (excluding tyres)	Each	**19,76,580**
	MAT-00601	tyres and tubes 6 sets		**76,156**
2	MAT-00602	Air compressor 5 cmm electric	Each	**6,23,340**
3	MAT-00603	Air compressor 7 cmm diesel	Each	**8,33,222**
4	MAT-00604	Air compressor 7 cmm electric	Each	**7,78,475**
5	MAT-00605	Air compressor 8.5 cmm diesel	Each	**9,70,032**
6	MAT-00606	Air compressor 8.5 cmm electric	Each	**10,01,587**
7	MAT-00607	Air compressor 15 cmm electric	Each	**12,21,158**
8	MAT-00608	Angle Dozer 90 hp	Each	**50,33,448**
9	MAT-00609	Batching plant 0.5 cum with accessories (6 Cum/hr)	Each	**11,15,414**
10	MAT-00610	Batching plant 2 x 1.00 cum with accessories (15 Cum/hr)	Each	**39,45,736**
11	MAT-00611	Batching plant 2 x 1.50 cum with accessories (50 Cum/hr)	Each	**60,42,093**
12	MAT-00612	Bending machine	Each	**5,12,030**
13	MAT-00613	Clam shell and hoisting ropes	Each	**29,230**
14	MAT-00614	Concrete bucket 1.5 cum	Each	**51,087**
15	MAT-00615	Concrete hand mixer 45/30 ltr	Each	**14,520**
16	MAT-00616	Concrete mixer 300/200 ltr(diesel)	Each	**1,36,407**
17	MAT-00617	Concrete mixer 300/200 ltr (electric)	Each	**1,33,305**
18	MAT-00618	Concrete mixer 600/400 ltr(diesel)	Each	**2,32,260**
19	MAT-00619	Concrete mixer 600/400 ltr (electric)	Each	**2,27,520**

Sl No:	CFMS CODE	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2021-22
1	2	3	4	5
20	MAT-00620	Concrete paver 100 Sqm / hr	Each	**21,91,860**
21	MAT-00621	Convey mucker (excluding tyres)	Each	**35,38,464**
	MAT-00601	tyres and tubes 6 sets		**76,156**
22	MAT-00622	Core drilling machine	Each	**10,11,282**
23	MAT-00623	Diesel generating set 30 KVA	Each	**4,60,305**
24	MAT-00624	Diesel generating set 50 KVA	Each	**5,74,942**
25	MAT-00625	Diesel Loco 45 hp	Each	**19,49,024**
26	MAT-00626	Dewatering pump 5 hp diesel	Each	**37,117**
27	MAT-00627	Dewatering pump 5 hp electric	Each	**23,031**
28	MAT-00628	Dewatering pump 10 hp diesel	Each	**56,015**
29	MAT-00629	Dewatering pump 10 hp electric	Each	**51,249**
30	MAT-00630	Dewatering pump 20 hp diesel	Each	**1,77,380**
31	MAT-00631	Dewatering pump 20 hp electric	Each	**96,555**
32	MAT-00632	Drifter	Each	**9,74,808**
33	MAT-00633	Drilling jumbo (excluding tyres)	Each	**12,31,198**
	MAT-08524	tyres and tubes 6 sets		**79,000**
34	MAT-00634	Dumper 4.5 cum (excluding tyres)	Each	**13,74,258**
	MAT-00601	tyres and tubes 6 sets		**76,156**
35	MAT-00635	Geophysical Ele.resistivity meter	Each	**4,72,525**
36	MAT-00636	Grouting pump	Each	**90,471**
37	MAT-00637	Guniting / sand blasting equipment	Each	**2,85,075**
38	MAT-00638	Ice plant with accessories 30 t / day	Each	**23,58,141**
39	MAT-00639	Jack hammer	Each	**59,513**
40	MAT-00640	Needle vibrator 40 mm petrol	Each	**18,433**
41	MAT-00641	Needle vibrator 40 mm electric	Each	**19,329**
42	MAT-00642	Needle vibrator 60 mm petrol	Each	**19,171**
43	MAT-00643	Needle vibrator 60 mm electric	Each	**23,648**
44	MAT-00644	Planing machine 4 m stroke	Each	**7,81,972**
45	MAT-00645	Plate shearing machine up to 12 mm	Each	**4,26,077**
46	MAT-00646	Pneumatic placer 0.5 cum	Each	**5,33,229**
47	MAT-00647	Pneumatic tamper	Each	**78,473**

Sl No:	CFMS CODE	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2021-22
1	2	3	4	5
48	MAT-00648	Pug cutting machine	Each	**16,753**
49	MAT-00649	Pusher leg	Each	**50,876**
50	MAT-00650	Road roller diesel 10 t	Each	**8,03,780**
51	MAT-00651	Shovel 0.50 cum 75 hp	Each	**35,44,467**
52	MAT-00652	Shovel 0.85 cum 110 hp	Each	**59,21,331**
53	MAT-00653	Stationery derrick crane 5 t	Each	**6,00,336**
54	MAT-00654	Tipper 5 cum (excluding tyres)	Each	**15,36,118**
	MAT-00601	tyres and tubes 6 sets		**76,156**
55	MAT-00655	Tipping tub 1.5 cum	Each	**2,22,745**
56	MAT-00656	Tower crane 5 tonne	Each	**68,72,153**
57	MAT-00657	Transformer 250 KVA	Each	**4,56,620**
58	MAT-00658	Truck 10 t (excluding tyres)	Each	**13,56,046**
	MAT-00601	tyres and tubes 6 sets		**76,156**
59	MAT-00659	Truck mounted derrick crane 5 t (excluding tyres)	Each	**18,77,562**
	MAT-00601	tyres and tubes 6 sets		**76,156**
60	MAT-00660	Upright drilling machine	Each	**52,203**
61	MAT-00661	Ventilation fan 20 hp	Each	**2,70,588**
62	MAT-00662	Vibratory pad foot roller 8 t	Each	**27,89,580**
63	MAT-00663	Wagon drill	Each	**6,08,960**
64	MAT-00664	Water tanker 8000 ltr (excluding tyres)	Each	**14,20,570**
	MAT-00601	tyres and tubes 6 sets		**76,156**
65	MAT-00665	Welding set	Each	**47,405**
66	MAT-00666	Winch 35 hp electric	Each	**3,71,031**
67	MAT-00667	Hydraulic Truck Crane 30T	Each	**1,42,91,558**
	MAT-08525	tyres and tubes 6 sets		**1,70,541**
68	MAT-00668	Hydraulic Truck Crane 16T	Each	**99,09,104**
	MAT-08526	tyres and tubes 6 sets		**1,65,017**
69	MAT-00669	Heavy Duty Airless Spray Painting Equipment	Each	**4,61,092**
70	MAT-00670	Concrete Placer Pump(25 Cum/hr)(Electric)	Each	**29,85,550**

ACCESSORIES TO MACHINERY / EQUIPMENT FOR THE YEAR: 2021-22

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2021-22
1	2	3	4	5
1	MAT-00671	Casing shoe bit	Each	**10,680**
2	MAT-00672	Diamond core bit BX size	Each	**10,895**
3	MAT-00673	Diamond core bit NX size	Each	**13,080**
4	MAT-00674	Double tube core barrel	Each	**13,945**
5	MAT-00675	Extension drill rod with coupling sleeve	Rm	**1,980**
6	MAT-00676	Jack hammer drill rod 1.5 m	Each	**3,902**
7	MAT-00677	Jack hammer drill rod 2.5 m	Each	**5,840**
8	MAT-00678	Nozzle for Guniting / sand blasting gun	Each	**650**
9	MAT-00679	Paving Cylinder	Each	**28,590**
10	MAT-00680	Rails 30R (30 kg / m)	tonne	**52,945**
11	MAT-00681	Reamer shell	Each	**5,240**
12	MAT-00682	T.C. Cross bit 50 mm dia	Each	**5,140**
13	MAT-00683	T.C. Cross bit 75 mm dia	Each	**10,280**
14	MAT-00684	T.C. Cross bit 100 mm dia	Each	**12,100**
15	MAT-00685	Tyres and Tubes for truck	Set	**14,750**
16	MAT-00686	Wire rope 16 mm dia	Rm	**281**
17	MAT-00687	Excavation of drain with Excavator	Cum	**39**

AGGREGATE CRUSHING & PROCESSING PLANT

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2021-22
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: 2021-22

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 2021-22
1	2	3	4	5
1	MAT-00688	Air hose 25 mm dia	Rm	**176**
2	MAT-00689	Air hose 50 mm dia	Rm	**266**
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	**94.43**
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 2021-22
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	**255**
10	MAT-00697	Petrol	Ltr	**100.11**
11	MAT-00698	Rivets	Kg	**97**
12	MAT-00699	Road tax on transport vehicles	Rs./annum	**As per RTA**
13	MAT-00700	Shalimatic sealing compound	Kg	**94**
14	MAT-00701	Shutter oil	Ltr	**54**
15	MAT-00702	Structural steel fabrication	Kg	**31**
16	MAT-00703	Sundries (Lump sum for un quantified inputs)	LS	**34**
17	MAT-00704	Water hose (pressure) 20 mm dia	Rm	**178**
18	MAT-00705	Steel wedges	LS	**17**
19	MAT-00706	Elbows / Nipple / Plugs etc.,	LS	**17**
20	MAT-00707	Soldering materials	LS	**17**
21	MAT-00708	Steam circulation arrangement	LS	**17**
22	MAT-00709	Fuel charges (gas for heating)	LS	**21**
23	MAT-00710	Vulcanizing materials	LS	**21**
24	MAT-08527	Other accessories / controls / junctions	LS	**21**
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	**13,905**
29	MAT-00712	Grease	Kg	**267**
30	MAT-00713	Welding holder set (cable / holder / gloves / mask etc)	Each	**7,844**
31	MAT-00385	Use rate of ropes	LS	**169**

MATERIALS FOR GATES AND HOISTS FOR THE YEAR: 2021-22

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2021-22
1	**2**	**3**	**4**	**5**
1	MAT-00095	Worm reducers	Each	**1,91,493**
2	MAT-00096	Electric motor 20 hp(Double Shaft)	Each	**1,07,929**
3	MAT-00097	Electric motor 17.5 hp(Double Shaft)	Each	**73,345**
4	MAT-00098	Electric motor 12.5 hp(Double Shaft)	Each	**61,986**
5	MAT-00099	Electric motor 5 hp(Double Shaft)	Each	**27,972**
6	MAT-00100	Electric motor 3 hp (Double Shaft)	Each	**19,845**
7	MAT-00101	Electric motor 2 hp (Double Shaft)	Each	**11,028**
8	MAT-00102	Floating shaft 300 mm dia	Kg	**186**
9	MAT-00103	Manual operating system	Each	**28,894**
10	MAT-00104	Gate position indicator	Each	**1,87,312**
11	MAT-00105	Ele-magnetic brake	Each	**30,167**
12	MAT-00106	Electric cable / switch / control panel etc	LS	**48,705**
13	MAT-00107	Wire rope sockets	Each	**4,698**

Materials other than covered under WR work items for the year 2021-22

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 2021-22
1	2	3	4	5
M-002	MAT-00175	Quarried stone 150 - 200 mm size for Hand Broken	Cum	**166**
M-003	MAT-00176	Boulder with minimum size of 300 mm for Pitching	Cum	**181**
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		Murrum	Cum	**Rate as per item no.56 of Material rates of WRD.**
M-008	MAT-00177	Gravel/Quarry spall	Cum	**138**
M-009		Granular Material or hard Murrum for GSB works	Cum	**Deleted**
M-010	MAT-00178	Granular Material or hard Murrum for GSB works	Cum	**100**
M-011	MAT-00179	Fly ash conforming to IS: 3812 (Part II & I)	Cum	**75**
		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, Dolamite, Dolerite and Trap.(Quartzite and Basalt with aggregate impact of less than 20)		

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2021-22
1	2	3	4	5
M-012	MAT-00180	Filter media/Filter Material as per Table 300-3 (MoRT&H Specification)	Cum	**346**
M-013	MAT-00181	Close graded Granular sub-base Material 53 mm to 9.5 mm	Cum	**674**
M-014	MAT-00182	Close graded Granular sub-base Material 37.5 mm to 9.5 mm	Cum	**694**
M-015	MAT-00183	Close graded Granular sub-base Material 26.5 mm to 9.5 mm	Cum	**734**
M-016	MAT-00184	Close graded Granular sub-base Material 9.5 mm to 4.75 mm	Cum	**608**
M-017	MAT-00185	Close graded Granular sub-base Material 9.5 mm to 2.36 mm	Cum	**598**
M-018	MAT-00186	Close graded Granular sub-base Material 4.75mm to 2.36 mm	Cum	**527**
M-019	MAT-00187	Close graded Granular sub-base Material 4.75mm to 75 micron mm.	Cum	**501**
M-020	MAT-00188	Close graded Granular sub-base Material 2.36 mm	Cum	**501**
M-021	MAT-00189	Stone crusher dust finer than 3mm with not more than 10% passing 0.075 sieve.	Cum	**362**
M-022	MAT-00191	Coarse graded Granular sub-base Material 2.36 mm & below	Cum	**517**
M-023	MAT-00192	Coarse graded Granular sub-base Material 4.75mm to 75 micron mm	Cum	**486**
M-024	MAT-00193	Coarse graded Granular sub-base Material 4.75 mm to 2.36 mm	Cum	**486**
M-025	MAT-00194	Coarse graded Granular sub-base Material 9.5 mm to 4.75 mm	Cum	**593**
M-026	MAT-00195	Coarse graded Granular sub-base Material 26.5 mm to 4.75 mm	Cum	**648**
M-027	MAT-00196	Coarse graded Granular sub-base Material 26.5 mm to 9.5 mm	Cum	**649**
M-028	MAT-00197	Coarse graded Granular sub-base Material 37.5 mm to 9.5 mm	Cum	**719**
M-029	MAT-00198	Coarse graded Granular sub-base Material 53 mm to 26 .5mm	Cum	**891**
M-030	MAT-00199	Aggregates below 5.6 mm	Cum	**582**
M-031	MAT-00200	Aggregates 22.4 mm to 2.36 mm	Cum	**957**

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2021-22
1	2	3	4	5
M-032	MAT-00201	Aggregates 22.4 mm to 5.6 mm	Cum	**1,089**
M-033	MAT-00202	Aggregates 45 mm to 2.8 mm	Cum	**694**
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	**957**
M-036	MAT-00204	Aggregates 53 mm to 22.4 mm	Cum	**907**
M-037	MAT-00205	Aggregates 63 mm to 2.8 mm	Cum	**745**
M-038	MAT-00206	Aggregates 63 mm to 45 mm	Cum	**689**
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	**745**
M-042	MAT-00208	Aggregates 13.2 mm to 0.09 mm	Cum	**841**
M-043	MAT-00209	Aggregates 13.2 mm to 5.6 mm	Cum	**972**
M-044	MAT-00210	Aggregates 13.2 mm to 10 mm	Cum	**1,084**
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	**1,190**
M-047	MAT-00212	Aggregates 19 mm to 6 mm	Cum	**1,094**
M-048	MAT-00213	Aggregates 37.5 mm to 19 mm	Cum	**1,165**
M-049	MAT-00214	Aggregates 37.5 mm to 25 mm	Cum	**1,205**
M-050	MAT-00215	Aggregates 6 mm nominal size	Cum	**790**
M-051	MAT-00216	Aggregates 10 mm nominal size	Cum	**977**
M-052	MAT-00217	Aggregates 13.2/12.5 mm nominal size	Cum	**1,145**

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2021-22
1	2	3	4	5
M-053	MAT-00218	Aggregates 20 mm nominal size	Cum	**1,418**
M-054	MAT-00219	Aggregates 25 mm nominal size	Cum	**1,367**
M-055	MAT-00220	Aggregates 40 mm nominal size	Cum	**881**
M-056		AC pipe 100 mm dia	Metre	**Rate as per PH item**
M-057	MAT-00221	Acrylic polymer bonding coat	Litre	**491**
M-058	MAT-00222	Aluminum Paint	Litre	**284**
M-059	MAT-00223	Aluminum alloy plate 2mm Thick	Sqm	**355**
M-060	MAT-00224	Aluminum alloy/Galvanized steel	Tonne	**62,660**
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	**851**
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	**74**
M-064	MAT-00228	Bearing (Cost of parts)	No's	**512**
M-065	MAT-00229	Bearing (Cast steel rocker bearing assembly of 250 tonne)	No's	**714**
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	**8.0**

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2021-22
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	**58**
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	**148**
M-084	MAT-00244	Compressible Fibre Board(20mm thick)	Sqm	**534**
M-085	MAT-00245	Connectors/ Staples	Each	**74**
M-086	MAT-00246	Copper Plate(12m long x 250mmwide)	Kg	**286**
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	**201**
M-089	MAT-00249	Credit for excavated rock found suitable for use	Cum	**222**
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 2021-22
1	2	3	4	5
M-092	MAT-00252	Earth Cost or compensation for selected earth for shoulders taken from Private Land	Cum	**107**
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	**331**
M-096	MAT-00255	Epoxy mortar	Kg	**109**
M-097	MAT-00256	Epoxy primer	Kg	**543**
M-098	MAT-00257	Epoxy resin-hardener mix for prime coat	Kg	**587**
M-099	MAT-00258	Flag of red color cloth 600 x 600 mm	Each	**26**
M-100	MAT-00259	Flowering Plants	Each	**45**
M-101	MAT-00260	Galvanized MS flat clamp	No's	**177**
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	**175**
M-103	MAT-00263	Galvanized structural steel plate 200 mm wide, 6 mm thick, 24 m long	Kg	**894**
M-104	MAT-00264	Gelatin 80%	Kg	**63**
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 2021-22
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	**21**
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	**7**
M-113	MAT-00270	Grass (Fine)	Kg	**9**
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	**38,998**
M-120	MAT-00275	Joint Sealant Compound	Kg	**65**
M-121	MAT-00276	Jute netting, open weave, 2.5 cm square opening for seeding and Mulching	Sqm	**87**

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2020-21
1	2	3	4	5
M-122	MAT-00277	LDO for steam curing	Litre	**65**
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	**46,065**
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	**21**
M-130	MAT-00284	Nuts and bolts	Kg	**102**
M-131	MAT-00285	Paint	Litre	**235**
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 2021-22
1	2	3	4	5
M-138	MAT-00292	Plastic sheath, 1.25 mm thick for dowel bars	Sqm	**53**
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	**296**
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	**171**
M-147	MAT-00301	Quick setting compound	Kg	**32**
M-148	MAT-00302	Random Rubble Stone	Cum	**283**
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 2021-22
1	2	3	4	5
M-158	MAT-00309	Rivets	Each	**7**
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	**76**
M-162	MAT-00312	Seeds(Grass)	Kg	**20**
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	**17**
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	**2,480**
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 forstreet 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	**293**
M-175	MAT-00323	Steel pipe 50 mm external dia as per IS:1239	Metre	**573**
M-176	MAT-00324	Steel wire rope 20 mm	Kg	**193**
M-177	MAT-00325	Steel wire rope 40 mm	Kg	**215**

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2021-22
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	**53**
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	**2,829**
M-189(a)	MAT-00332	Water charges(Urban)	KiloLitre	**116**
(b)	MAT-00333	Water charges(Rural)	KiloLitre	**88**
M-190		Water based cement paint	Litre	**As per Building SSR**
M-191	MAT-00334	Welded steel wire fabric	Kg	**148**
M-192	MAT-00335	Wire mesh 50mm x 50mm size of 3mm wire	Kg	**259**

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2021-22
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	**1,195**
M-196	MAT-00337	Wooden staff for fastening of flag 25 mm dia, one m long	Each	**76**
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	**5**
2	MAT-00340	Laying Sand Bags in the stipulated places including cost of empty cement bag, sand, thread, stiching 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	**34**
3	MAT-00341	Rough stone for revetment 225mm thick	Cum	**166**
4	MAT-00342	Eradication of Weed growth from Drains, Canals by spraying Chemicals	Sqm	**2**
5	MAT-00343	Thinner	Ltr	**93**
6	MAT-00344	Gear Oil	Ltr	**263**
7	MAT-00345	Cardium compound	kg	**107**

Conveyance Charges of Material

CONVEYANCE CHARGES OF MATERIALS AS PER SoR 2021-22 (COMMON TO ALL DEPARTMENTS).

LEAD, LIFT, LOADING AND UNLOADING CHARGES FOR MATERIALS FOR THE YEAR: 2021-22

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: 2021-22

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	70.00	40.80	89.10
3	Total lead up to 150 m	140.00	81.70	178.20

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: 2021-22

(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	33.70	32.50	20.30	47.80	20.60	54.10
2	Lead up to 2 km	47.20	45.50	28.40	66.90	28.80	75.80
3	Lead up to 3 km	62.90	60.60	37.90	89.20	38.40	101.10
4	Lead up to 4 km	76.40	73.60	46.00	108.30	46.60	122.70
5	Lead up to 5 km	89.90	86.60	54.10	127.40	54.80	144.40
6	for Every km beyond 5 km up to 30 km	13.50	13.00	8.10	19.10	8.20	21.70
7	for Every km beyond	11.20	10.80	6.80	15.90	6.90	18.10

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	23.20	46.50	76.70	91.90	63.90
2	Unloading	11.60	23.25	76.70	91.90	63.90

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	121.70	144.90	184.90	200.20	242.60
2	Unloading	44.30	72.45	184.90	200.20	242.60

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	54.10	107.60
2	Unloading	17.00	17.00

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 / tonne	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	8.20	5.90	10.90

HIRE CHARGES

HIRE CHARGES OF PLANT & MACHINERY FOR THE YEAR: 2021-22

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	668.90	HIR-00135	1428.30	LAB-00317	365.00	2462.20
2	Air compressor 5 cmm (electric)	Hour	HIR-00002	90.80	HIR-00136	285.50	LAB-00318	214.50	590.80
3	Air compressor 7 cmm (diesel)	Hour	HIR-00003	204.10	HIR-00137	1168.60	LAB-00319	274.60	1647.30
4	Air compressor 7 cmm (electric)	Hour	HIR-00004	113.40	HIR-00138	380.70	LAB-00320	214.50	708.60
5	Air compressor 8.5 cmm (diesel	Hour	HIR-00005	237.70	HIR-00139	1460.70	LAB-00321	274.60	1973.00
6	Air compressor 8.5 cmm (Electric)	Hour	HIR-00006	145.90	HIR-00140	475.90	LAB-00322	214.50	836.30
7	Air compressor 15 cmm (electric)	Hour	HIR-00007	115.20	HIR-00141	1057.50	LAB-00323	228.80	1401.50
8	Angle Dozer 90 hp	Hour	HIR-00008	1531.00	HIR-00142	999.10	LAB-00324	304.20	2834.30
9	Batching plant 0.5cum(6 cum/hr)	Hour	HIR-00009	99.50	HIR-00143	126.90	LAB-00325	439.80	666.20
10	Batching plant 2 x 1.00 cum(15 cum/hr)	Hour	HIR-00010	351.80	HIR-00144	380.70	LAB-00326	439.80	1172.30
11	Batching plant 2 x 1.50 cum(50 cum/hr)	Hour	HIR-00011	538.70	HIR-00145	465.30	LAB-00327	439.80	1443.80
12	Bending machine 3000 x 12 mm	Hour	HIR-00012	38.40	HIR-00146	126.90	LAB-00328	171.60	336.90
13	Clam shell and hoisting ropes	Hour	HIR-00013	5.30	HIR-00147	0.00		0.00	5.30
14	Concrete bucket 1.5 cum	Hour	HIR-00014	14.00	HIR-00148	0.00		0.00	14.00
15	Concrete hand mixer 45 / 30 ltr	Hour	HIR-00015	5.00	HIR-00149	0.00		0.00	5.00
16	Concrete mixer 300 / 200 (diesel)	Hour	HIR-00016	47.30	HIR-00150	129.80	LAB-00329	286.00	463.10
17	Concrete mixer 300 / 200 ltr (electric)	Hour	HIR-00017	46.20	HIR-00151	42.30	LAB-00330	286.00	374.50
18	Concrete mixer 600 / 400 (diesel) / 0.28 cum	Hour	HIR-00018	80.50	HIR-00152	259.70	LAB-00331	286.00	626.20
19	Concrete mixer 600 / 400 ltr (electric)	Hour	HIR-00019	78.90	HIR-00153	84.60	LAB-00332	286.00	449.50
20	Concrete paver 100 sqm / hr	Hour	HIR-00020	312.30	HIR-00154	0.00	LAB-00333	549.10	861.40

Sl. No	DESCRIPTION	UNIT	CODE	Hire Charges	CODE	Fuel Charges	CODE	Crew Charges	Total in Rs
21	Convey mucker	Hour	HIR-00021	722.90	HIR-00155	294.40	LAB-00334	228.80	1246.10
22	Core drilling machine / Drilling equipment	Hour	HIR-00022	281.90	HIR-00156	389.50	LAB-00335	365.00	1036.40
23	Diesel generating set 30 KVA	Hour	HIR-00023	58.70	HIR-00157	1038.70	LAB-00336	171.60	1269.00
24	Diesel generating set 50 KVA	Hour	HIR-00024	73.30	HIR-00158	1558.10	LAB-00337	171.60	1803.00
25	Diesel Loco 45 hp	Hour	HIR-00025	337.40	HIR-00159	876.40	LAB-00338	214.50	1428.30
26	Dewatering pump 5 hp (diesel)	Hour	HIR-00026	9.10	HIR-00160	129.80	LAB-00339	143.50	282.40
27	Dewatering pump 5 hp (electric)	Hour	HIR-00027	2.70	HIR-00161	42.30	LAB-00340	107.60	152.60
28	Dewatering pump 10 hp (diesel)	Hour	HIR-00028	13.70	HIR-00162	259.70	LAB-00341	143.50	416.90
29	Dewatering pump 10 hp (electric	Hour	HIR-00029	5.90	HIR-00163	84.60	LAB-00342	107.60	198.10
30	Dewatering pump 20 hp (diesel)	Hour	HIR-00030	43.50	HIR-00164	519.40	LAB-00343	143.50	706.40
31	Dewatering pump 20 hp (electric)	Hour	HIR-00031	11.20	HIR-00165	169.20	LAB-00344	107.60	288.00
32	Drifter	Hour	HIR-00032	283.90	HIR-00166	0.00	LAB-00345	456.30	740.20
33	Drilling jumbo	Hour	HIR-00033	335.30	HIR-00167	70.10	LAB-00346	228.80	634.20
34	Dumper 4.5 cum	Hour	HIR-00034	531.00	HIR-00168	654.40	LAB-00347	292.00	1477.40
35	Geophysical Electric resistivity meter	Hour	HIR-00035	95.70	HIR-00169	0.00		0.00	95.70
36	Grouting pump	Hour	HIR-00036	21.10	HIR-00170	42.30	LAB-00348	343.20	406.60
37	Guniting / sand blast equipment	Hour	HIR-00037	109.30	HIR-00171	0.00	LAB-00349	286.00	395.30
38	Ice plant & accessories 30 t / day	Hour	HIR-00038	163.60	HIR-00172	1205.50	LAB-00350	171.60	1540.00
39	Jack hammer	Hour	HIR-00039	17.30	HIR-00173	0.00	LAB-00351	429.00	446.30
40	Needle vibrator 40 mm (petrol)	Hour	HIR-00040	6.90	HIR-00174	27.50	LAB-00352	205.90	240.30
41	Needle vibrator 40 mm (electric)	Hour	HIR-00041	7.20	HIR-00175	8.50	LAB-00353	205.90	221.60
42	Needle vibrator 60 mm (petrol)	Hour	HIR-00042	7.20	HIR-00176	41.30	LAB-00354	205.90	254.40
43	Needle vibrator 60 mm (electric)	Hour	HIR-00043	8.80	HIR-00177	12.70	LAB-00355	205.90	227.40

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	111.40	HIR-00178	126.90	LAB-00356	274.60	512.90
45	Plate shearing machine upto 12 mm	Hour	HIR-00045	39.80	HIR-00179	169.20	LAB-00357	182.50	391.50
46	Pneumatic placer 0.5 cum	Hour	HIR-00046	153.30	HIR-00180	0.00	LAB-00358	112.10	265.40
47	Pneumatic tamper	Hour	HIR-00047	18.30	HIR-00181	0.00	LAB-00359	343.20	361.50
48	Pug cutting machine	Hour	HIR-00048	6.50	HIR-00182	4.20		0.00	10.70
49	Pusher leg	Hour	HIR-00049	11.90	HIR-00183	0.00		0.00	11.90
50	Road roller diesel 10 t	Hour	HIR-00050	179.20	HIR-00184	1168.60	LAB-00360	278.30	1626.10
51	Shovel 0.50 cum 75 hp	Hour	HIR-00051	915.70	HIR-00185	779.00	LAB-00361	304.20	1998.90
52	Shovel 0.85 cum 110 hp / Hydraulic Excavator	Hour	HIR-00052	1529.70	HIR-00186	1428.30	LAB-00362	304.20	3262.20
53	Stationery derric crane	Hour	HIR-00053	75.00	HIR-00187	0.00		0.00	75.00
54	Tipper 5 / 5.5 cum	Hour	HIR-00054	404.90	HIR-00188	490.80	LAB-00363	228.20	1123.90
55	Tipping tub 1.5 cum	Hour	HIR-00055	57.90	HIR-00189	0.00		0.00	57.90
56	Tower crane 5 tonne	Hour	HIR-00056	749.10	HIR-00190	220.00	LAB-00364	243.40	1212.50
57	Transformer 250 KVA	Hour	HIR-00057	5010.10	HIR-00191	0.00		0.00	5010.10
58	Truck 10 t / Truck 5.5 cum per 10 tonnes	Hour	HIR-00058	366.90	HIR-00192	490.80	LAB-00365	225.20	1082.90
59	Truck mounted derric crane 5 t	Hour	HIR-00059	476.90	HIR-00193	490.80	LAB-00366	225.20	1192.90
60	Upright drilling machine/Grinder	Hour	HIR-00060	20.20	HIR-00194	42.30	LAB-00367	251.60	314.10
61	Ventilation fan 20 hp	Hour	HIR-00061	11.30	HIR-00195	169.20	LAB-00368	37.10	217.60
62	Vibratory pad foot roller 8 t	Hour	HIR-00062	1237.90	HIR-00196	1687.90	LAB-00369	343.20	3269.00
63	Wagon drill	Hour	HIR-00063	169.80	HIR-00197	0.00	LAB-00370	365.00	534.80
64	Water tanker 8000 ltr	Hour	HIR-00064	380.50	HIR-00198	490.80	LAB-00371	225.20	1096.50
65	Welding set	Hour	HIR-00065	15.10	HIR-00199	101.50		0.00	116.60

Sl. No	DESCRIPTION	UNIT	CODE	Hire Charges	CODE	Fuel Charges	CODE	Crew Charges	Total in Rs
66	Winch 35 hp (electric)	Hour	HIR-00066	123.80	HIR-00200	207.30	LAB-00372	343.20	674.30
67	Tractor with 2T roller	Hour	HIR-00067	345.00	HIR-00201	0.00		0.00	345.00
68	Hydraulic Truck Crane 30T	Hour	HIR-00068	2915.70	HIR-00202	1927.00	LAB-00373	685.20	5527.90
69	Hydraulic Truck Crane 16T	Hour	HIR-00069	2071.20	HIR-00203	1704.20	LAB-00374	685.20	4460.60
70	Heavy Duty Airless Spray Painting Equipment	Hour	HIR-00070	112.70	HIR-00204				112.70
71	Concrete Placer Pump (25 cum/hr) (Electric) / 30 Cum	Hour	HIR-00071	858.30	HIR-00205	507.60	LAB-00375	214.50	1580.40

Government of Andhra Pradesh

COMMON SCHEDULE OF RATES
FOR THE YEAR 2021-22
(Effective from 1st June, 2021)

R&B Department, AP

ROAD & BRIDGE WORKS

INDEX

PART-II

ROAD & BRIDGE WORKS

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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, Jaggaiahpeta 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 & upto16 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 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 <u>Proportion of First class and 2nd class workmen under Skilled Labour</u>:

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

5.0 <u>Revetment and apron works</u>:

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 <u>Deep cuts:</u>

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 <u>The conveyance of bitumen for bulk and packed may be admitted as follows</u>:

Packed --- Rs. 1.75 per Km/ MT

Bulk --- Rs. **1.75** per Km/ MT (round the trip)

8.0 <u>SEIGNIORAGE CHARGES</u>:

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 2021-22 in Rs.	Remarks
1	2	3	4	5	6	7
			(A) SKILLED WORKMEN			
			First Class			
1	a	LAB-00039	Stone cutter	Day	580	As per WR Dept. (S.No.39)
2	b	LAB-00011	Mason & Brick Layer	Day	585	As per WR Dept. (S.No.11)
3	c	LAB-00004	Carpenter	Day	655	As per WR Dept. (S.No.4)
4	d	LAB-00035	Painter	Day	655	As per WR Dept. (S.No.35)
5	e	LAB-00036	Plumber	Day	655	As per WR Dept. (S.No.36)
6	f	LAB-00041	Welder	Day	575	As per WR Dept. (S.No.41)
7	g	LAB-00006	Fitter	Day	615	As per WR Dept. (S.No.6)
8	h	LAB-00005	Electrician	Day	650	As per WR Dept. (S.No.5)
9	1	LAB-00125	Cook	Day	525	As per WR Dept. (S.No.2) Other Category
10	2	LAB-00012	Mechanic	Day	590	As per WR Dept. (S.No.12)
11	3	LAB-00043	Rigger	Day	605	
12	4	LAB-00044	Rigger Syrang	Day	605	
13	5	LAB-00045	Well Sinker	Day	605	
14	6	LAB-00003	Blaster	Day	645	As per WR Dept. (S.No.3)
15	3	LAB-00001	Bar bender	Day	700	As per WR Dept. (S.No.1)
16	7	LAB-00015	Tipper and Heavy Vehicle Driver above 12 T	Day	630	As per WR Dept. (S.No.15)
17		LAB-00046	Tanker and medium Vehicle driver (7.5 T to 12 T)	Day	600	
18		LAB-00047	Tanker and Light Vehicle driver up to 7.5 T	Day	460	
19		LAB-00048	Wagon Drill Operator upto 7.5 T	Day	600	
20	8	LAB-00049	Lorry and Heavy Vehicle Driver above 12 T	Day	635	
21		LAB-00027	Road Roller Driver (7.5 T to 12 T)	Day	590	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	580	
			Operator			
26	10	LAB-00051	Pan Mixer	Day	620	
27		LAB-00016	Concrete Mixer	Day	575	As per WR Dept. (S.No.16)

Si. No	S.S. Item No.	CFMS Code	Description	Unit (Per)	**S o Rate for 2021-22 in Rs.**	Remarks
1	**2**	**3**	**4**	**5**	**6**	**7**
28		LAB-00032	Vibrator	Day	575	As per WR Dept. (S.No.32)
29		LAB-00052	Composer	Day	580	
30		LAB-00023	Jack Hammer	Day	575	As per WR Dept. (S.No.23)
31		LAB-00034	Driller	Day	645	As per WR Dept. (S.No.34)
32		LAB-00053	Boring Maistry	Day	555	
33	11	LAB-00024	Pump operator	Day	575	As per WR Dept. (S.No.24)
34	12	LAB-00054	Turner Grade-I	Day	605	
35	13	LAB-00135	Wireless Operator	Day	645	As per WR Dept. (S.No.12) Other Category
36	14	LAB-00055	Assistant Wireless Operator	Day	550	
37	15	LAB-00138	Jeep Driver	Day	640	As per WR Dept. (S.No.15) Other Category
38	16	LAB-00132	Work Inspector with I.T.I qualification	Day	655	As per WR Dept. (S.No.9) Other Category
39	17	LAB-00127	Work Inspector with LCE, LME,L.E.E qualification	Day	910	As per WR Dept. (S.No.4) Other Category
40	18	LAB-00130	Work Inspector with B.E (Civil, Mechanical and Electrical) qualification	Day	1170	As per WR Dept. (S.No.7) Other Category
41	19	LAB-00010	Work Inspector with Non-technical qualification SSLC/SSC/HSC	Day	640	As per WR Dept. (S.No.10)
42	20	LAB-00056	Mason Spl. Grade for Mossaic and Polished shahabad stone floor	Day	595	
43	21 a(i)	LAB-00136	Typist / Job Typist	Day	645	As per WR Dept. (S.No.13) Other Category
	a (ii)	LAB-00134	Computer operator	Day	715	As per WR Dept. (S.No.11) Other Category
	b	LAB-00137	CAD Operator with Diploma in Engineering /General degree with CAD certificate	Day	910	As per WR Dept. (S.No.14) Other Category
			(B) SEMI –SKILLED WORKMEN			
			SECOND CLASS			
44	a	LAB-00091	Mason	Day	525	As per WR Dept. (S.No.35) Semi-Skilled
45	b	LAB-00091	Brick Layer and Stone Cutter	Day	525	As per WR Dept. (S.No.35) Semi-Skilled
46	c	LAB-00060	Carpenter	Day	525	As per WR Dept. (S.No.4) Semi-Skilled
47	d	LAB-00093	Painter	Day	525	As per WR Dept. (S.No.37) Semi-Skilled

Sl.no	S.S. Item No.	CFMS Code	Description	Unit (Per)	S o Rate for 2021-22 in Rs.	Remarks
1	2	3	4	5	6	7
48	e		**deleted**			
49	f	LAB-00002	Blacksmith	Day	550	As per WR Dept. (S.No.2) (Skilled)
50	g	LAB-00098	Welder	Day	530	
51	h	LAB-00099	Fitter	Day	530	
52	i	LAB-00100	Electrician	Day	530	
53	2	LAB-00101	Caulker	Day	530	
54	4	LAB-00102	Tinker	Day	530	
55	5	LAB-00103	Sawyer	Day	530	
56	6	LAB-00104	Brick-Moulder	Day	530	
57	7	LAB-00105	Pot-tile turner	Day	530	
58	8	LAB-00106	Pan-tile turner	Day	530	
59	9	LAB-00107	Brick and Lime Kiln man/Glazzer	Day	530	
60	10	LAB-00135	Telephone Operator	Day	645	As per WR Dept. (S.No.12) Other Category
61	11	LAB-00108	Hand Driller	Day	530	
62	12	LAB-00109	Quarry Man	Day	530	
63	13	LAB-00081	Hammer Man	Day	525	As per WR Dept. (S.No.40) Semi-skilled
64	14	LAB-00110	Thatcher	Day	530	
65	15	LAB-00111	Fireman	Day	530	
66	16	LAB-00112	Cleaner/Helper	Day	530	
67	17	LAB-00113	Stone Packer	Day	530	
68	18	LAB-00114	Jawali	Day	530	
69	19	LAB-00115	Ex-Service man/Goorkha watchman	Day	530	
70	20	LAB-00116	Ratton Worker	Day	530	
71	21	LAB-00117	Mate	Day	530	
72	1	LAB-00066	Head Mazdoor (Mukaddar)	Day	525	As per WR Dept. (S.No.10) Semi-Skilled
			(C) UNSKILLED WORKMEN			
73	2	LAB-00120	Man Mazdoor	Day	490	As per WR Dept. (S.No.3) Un-Skilled
74	3	LAB-00122	Watch Man	Day	490	As per WR Dept. (S.No.5) Un-Skilled
75	5	LAB-00121	Woman Mazdoor	Day	490	As per WR Dept. (S.No.4) Un-Skilled
76	6 (b)	LAB-00123	Helper/Cleaners/Sweepers/Scavangers/Choukidars/Security Guards/Office Boys	Day	470	
77			***Note :*** *Whenever unskilled workmen are engaged for cleaning of Sewers & Septic Tanks, they may be paid double the above wages.*			

		(D) OTHER CONVEYANCE ITEMS				
Sl.no	**S.S. Item No.**	**CFMS Code**	**Description**	Unit (Per)	**S o Rate for 2021-22 in Rs.**	**Remarks**
1	2	3	4	5	6	7
78	1	LAB-00062	Single bullock with driver and cart	Day	550	As per WR Dept. (S.No.6) Semi-Skilled
79	2		Bullock pair with driver	Day	605	
80	3	LAB-00061	Bullock pair with driver and cart	Day	585	As per WR Dept. (S.No.5) Semi Skilled
81	4	LAB-00140	Bullock pair with driver and cart with pneumatic tyres	Day	675	
82	5		Bullock pair driver and kapila	Day	Deleted	
83	6	LAB-00063	Nava with crew	Day	525	As per WR Dept. (S.No.3) Semi Skilled
84	7	LAB-00141	Punt thundal	Day	450	
85	8	LAB-00142	Punt lascar	Day	450	
	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 2021-22 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	**166.00**	As per WR Dept. (S.No.3) of Miscellaneous items
3	MAT-00176	b.ii	For SS Revetment work 300 mm	1 cum	**181.00**	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	196.20	
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, dolamite and trap variety)	1 cum	**283.00**	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, Dolamite 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)	S o Rate for 2021-22 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 - 6mm size (SS 5)	1 cum	**576.00**	As per WR Dept. (M 050 of Materials excluding blasting charges Rs.70/- and Machine crushing charges @ 25%)
26	MAT-00216	b	- do - 10mm size (SS 5)	1 cum	**726.00**	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)	S o Rate for 2021-22 in Rs.	Remarks
1	2	3	4	5	6	7
27	MAT-00217	c	- do - 12mm size (SS 5)	1 cum	**860.00**	As per WR Dept. (M 052 of Materials excluding blasting charges Rs.70/- and Machine crushing charges @ 25%)
28	MAT-00218	d	- do - 20mm size (SS 5)	1 cum	**1079.00**	As per WR Dept. (M 053 of Materials excluding blasting charges Rs.70/- and Machine crushing charges @ 25%)
29	MAT-00219	e	- do - 25mm size (SS 5)	1 cum	**1038.00**	As per WR Dept. (M 054 of Materials excluding blasting charges Rs.70/- and Machine crushing charges @ 25%)
30	MAT-00220	f	- do - 40mm size (SS 5)	1 cum	**649.00**	As per WR Dept. (M 055 of Materials excluding blasting charges Rs.70/- and Machine crushing charges @ 25%)
31	MAT-00424	g	- do - 50mm size (SS 5)	1 cum	434.30	
32	MAT-00425	h	- do - 60mm size (SS 5)	1 cum	399.05	
33	MAT-00426	i	- do - 65mm size (SS 5)	1 cum	360.95	
34	MAT-00427	j	- do - 75mm size (SS 5)	1 cum	289.50	
35	MAT-00428	k	- do - 75 to 100mm 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 2021-22 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 to 5 mm size (IRC&MORTH)	1 cum	381.00	
46	MAT-00435	b	-do- 5 to 7mm size (IRC&MORTH)	1 cum	**524.20**	
47	MAT-00436	c	-do- 9.5 to 11.2mm size (IRC&MORTH)	1 cum	**682.20**	
48	MAT-00437	d	-do- 12mm to 14 mm size (IRC and MORTH)	1 cum	**772.60**	
49	MAT-00438	e	-do- 19 mm to 22 mm size (IRC and MORTH)	1 cum	**984.00**	
50	MAT-00439	f	-do- 25 mm to 27 mm size (IRC and MORTH)	1 cum	**944.00**	
51	MAT-00440	g	-do- 40 mm to 45 mm size (IRC and MORTH)	1 cum	**604.80**	
52	MAT-00441	h	-do- 50 mm to 55 mm size (IRC and MORTH)	1 cum	**492.50**	
53	MAT-00442	i	-do- 60 mm to 63 mm size (IRC and MORTH)	1 cum	**452.50**	
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	
56		l	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.

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	S o Rate for 2021-22 in Rs.	Remarks
1	2	3	4	5	6	7
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 Dolamite varieties.	1 Cum	90.50	

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	S o Rate for 2021-22 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-05253	34	Gravel	1 Cum	**138.00**	As per WR Dept. (M 008 of Materials other than covered under Irrigation Items)
91	MAT-00473	35 a	Quarry rubbish	1 Cum	84.75	
92	MAT-00068	B	HBG Stone Chips 2.36 mm and below	1 Cum	**385.00**	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**	As per WR Dept. (Si. No. 28 of Materials) and will be revised as per the Govt. new sand policy
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 2021-22 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	**3680/-**	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)	S o Rate for 2021-22 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 initital 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 metresand 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 2021-22 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 EDGEBUNDS AND SUBGRADE ROLLING, SPREADING METAL INCLUDING BLINDAGE OFGRAVEL 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 2021-22 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-05455		Gelatin(For MORTH data, for works of state & national high ways only)	Per Kg	**63.00**	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	**10.00**	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 2021-22 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	**64.00**	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	**88.00**	As per WR Dept. (M 189-b of Materials other than covered under Irrigation Items)

HIRE CHARGES OF PLANT AND MACHINERY

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

Sl. No.	CFMS Code	Description		Unit	S o Rate for 2021-22 in Rs.	Remarks
		Machine	Activity			
1	2	3	4	5	6	7
1	HIR-00008	Dozer(D 80)	Spreading Cutting Cleaning	Per Hour	2834.30	As per WR Dept. (S.No.8)
2	HIR-00072	Dozer (D50)	Spreading Cutting Cleaning	Per hour	1733.10	
3	HIR-00073	Mortor Grader	Clearing Spreading GSB WMM	Per Hour	3383.50	
4	HIR-00052	Hydraulic Excavator	Soil Ordinary Soil Marshy Soil unsuitable	Per Hour	3262.20	As per WR Dept. (S.No.52)
5	HIR-00074	Front end loader	Soil loading Aggregate loading	Per Hour Per Hour	1803.00	
6	HIR-00052	Tipper- 5.5 Cum	Transportation of soil, GSB,WMM, Hot mix etc	Per Hour	1123.90	As per WR Dept. (S.No.54)
7	HIR--00062	Vibratory roller 8 tonne	Earth/Soil, GSB, WMM	Per Hour	3269.00	As per WR Dept. (S.No.62)
8	HIR-00075	Smooth wheeled roller 8 tonne	Soil compaction ,BM compaction	Per Hour	1626.10	As per WR dept. (S.No.50)
9	HIR-00064	Water tanker 8 Kilolitre	Water transport	Per Hour	1097.50	As per WR Dept. (S.No.64)
10	HIR-00076	Water tanker 6 Kilolitre	Water transport	Per Hour	732.50	
11	HIR-00077	Tractor	Pulling	Per Hour	472.80	
12	HIR-00078	Tractor with rotavator	GSB mixing @ site	Per Hour	483.40	
13	HIR-00079	Tractor with ripper attachment	Scarifying	Per Hour	483.40	
14	HIR-00002	Air Compressor 5 cmm(electric)	General purpose	Per Hour	590.80	As per WR Dept. (S.No.2)
15	HIR-00080	Wet mix plant 60 TPH	Wet mix	Per Hour	1851.80	
16	HIR-00081	Mechanical broom Hydraulic	Surface cleaning	Per Hour	404.70	
17	HIR-00082	Bitumen Pressure Distributor	Applying bitumen tack coat	Per Hour	1699.20	

Sl. No.	CFMS Code	Description		Unit	S o Rate for 2021-22 in Rs.	Remarks
		Machine	Activity			
1	2	3	4	5	6	7
18	HIR-00083	Emulsion Pressure Distributor	Applying emulsion tack coat	Per Hour	974.10	
19	HIR-00084	Hot mix Plant – 120 TPH capacity	DBM/BM/SDC /Premix	Per Hour	31951.60	
20	HIR-00085	Hot mix Plant – 100 TPH capacity	DBM/BM/SDC /Premix	Per Hour	27420.10	
21	HIR-00086	Hot mix Plant – 60 TPH capacity	DBM/BM/SDC /Premix	Per Hour	24588.80	
22	HIR-00087	Hot mix Plant – 40 to 60 TPH capacity	DBM/BM/SDC /Premix	Per Hour	21754.40	
23	HIR-00088	Paver Finisher Hydrostatic with sensor control 100 TPH	DBM/BM/SDC /Premix	Per Hour	3467.30	
24	HIR-00089	Paver finisher Mechanical 100	Paving of WMM, paving of DLC	Per Hour	2549.30	
25	HIR-00090	Hydraulic Chip Spreader	Surface dressing	Per Hour	2908.30	
26	HIR-00091	Tandem Road roller	Rolling of Asphaltic surface	Per Hour	1967.90	
27	HIR-00092	Pneumatic Road roller	Rolling of Asphaltic surface	Per Hour	1606.50	
28	HIR-00093	Pot-Hole repair machine	Repair of pot-holes	Per Hour	957.20	
29	HIR-00094	Bitumen boiler oil fired	Bitumen Spraying	Per Hour	236.40	
30	HIR-00095	GSB Plant 50 Cum	Producing GSB	Per Hour	1356.50	
31	HIR-00096	Mastic Cooker	Mastic wearing coat	Per Hour	84.30	
32	HIR-00097	Batching and Mixing Plant (a) 30 Cum capacity	Concrete mixing	Per Hour	1416.20	
	HIR-00010	(b) 15 - 20 Cum capacity	Concrete mixing	Per Hour	1172.30	As per WR Dept. (S.No.10)
33	HIR-00001	Transit mixer	Transportation of concrete mix	Per Hour	2462.20	As per WR Dept. (S.No.1)
34	HIR-00071	Concrete pump of 45 and 30 cum	Pumping of Concrete	Per Hour	1580.40	As per WR Dept. (S.No.70)
35	HIR-00098	Cranes				
		(a) 80 tonnes	Lifting purpose	Per Hour	1389.90	
	HIR-00099	(b) 35 tonnes			938.80	
	HIR-00100	(c) 3 tonnes			455.40	
	HIR-00101	(d)Crane with grab bucket 0.75 cum	Well foundation	Per Hour	2447.40	
	HIR-00102	(e)Crane with grab bucket 1 cum	Well foundation	Per Hour	4002.40	
36	HIR-00014	Concrete bucket 1.50 cum	For pouring concrete	Per Hour	14.00	As per WR Dept. (S.No.14)

Sl. No.	CFMS Code	Description		Unit	S o Rate for 2021-22 in Rs.	Remarks
		Machine	Activity			
1	2	3	4	5	6	7
37	HIR-00103	Kerb casting machine	Kerb making	Per Hour	570.30	
38	HIR-00018	Concrete mixer (a)0.28 cum	Concrete mixing	Per Hour	626.20	As per WR Dept. (S.No.18)
	HIR-00104	(b) 1.0 cum	Concrete mixing	Per Hour	756.80	
39	HIR-00105	Piling rig with bantonite pump	0.75 m dia to 1.20 m dia boring attachment	Per Hour	6499.60	
40	HIR-00106	Concrete paver finisher with 40 HP motor	Paving of concrete surface	Per Hour	3442.00	
41	HIR-00107	Integrated stone crusher	Crushing of spalls 100 TPH	Per Hour	10340.50	
	HIR-00108		Crushing of spalls 200 TPH	Per Hour	21804.00	
42	HIR-00109	Pre stressing jack with pump and access	Stressing of steel wires/ stands	Per Hour	167.30	
43		Generator				
	HIR-00110	250 KVA	Generation of electric energy	per hour	2292.40	
	HIR-00111	125 KVA		per hour	1635.70	
	HIR-00112	100 KVA		per hour	1395.50	
	HIR-00023	30 KVA		per hour	1269.00	As per WR Dept. (S.No.23)
44	HIR-00113	Pneumatic sinking of Plants	Pneumatic sinking of wells	Per K.m.	6043.10	
45	HIR-00058	Truck 5.5 cum per 10 tonnes	Material transport	Per her	1082.90	As per WR Dept. (S.No.58)
46	HIR-00114	Road marking Machine	Road marking	Per Hour	143.70	
47	HIR-00114	Mobile slurry seal equipment	Mixing and laying slurry seal	Per Hour	1337.10	
48	HIR-00115	Plate compacter	For compacting in medians	Per Hour	62.70	
49	HIR-00022	Drilling equipment	For drilling	Per Hour	1036.40	As per WR Dept. (S.No.22)
		***Note**: The above hire charges of Machinery & Plant includes crew, oils, conveyance of Machinery to site and all other incidental charges*				

SoR – 2021-22

Part – IV
PUBLIC HEALTH ITEMS

PUBLIC HEALTH ITEMS			
Sl. No.	Description	Unit	SoR for 2021-22
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 2021-22**
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	**655**
	900	Per Meter	LAB-00588	**852**
	1000	Per Meter	LAB-00589	**1107**
	1100	Per Meter	LAB-00590	**1363**
	1200	Per Meter	LAB-00591	**1620**
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	**17119**
	1000	Each Joint	LAB-00593	**19126**
	1100	Each Joint	LAB-00594	**21129**
	1200	Each Joint	LAB-00595	**23135**
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	**7178**
	900	Each Joint	LAB-00597	**8442**
	1000	Each Joint	LAB-00598	**9722**
	1100	Each Joint	LAB-00599	**11033**
	1200	Each Joint	LAB-00600	**12392**
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	**25**
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	**396**
	800		LAB-00603	**476**
	900		LAB-00604	**570**
	1000		LAB-00605	**684**
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	**40**
	40	Per Meter	LAB-00607	**40**
	32	Per Meter	LAB-00608	**40**
	25	Per Meter	LAB-00609	**37**
	20	Per Meter	LAB-00610	**35**
	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	**281**
	450		LAB-00612	**311**
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			
	Dia. of Valve in mm.		**To follow as per AP. Standard data**	
	80mm to 600mm	Each		
17	Labor charges for fixing Air valves 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	**205**
	65	Each	LAB-00614	**217**
	80	Each	LAB-00615	**235**
	100	Each	LAB-00616	**279**
	125	Each	LAB-00617	**435**
	150	Each	LAB-00618	**476**
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	**193**
	40	Each	LAB-00620	**218**
	50(Double Air valves)	Each	LAB-00621	**232**
	65	Each	LAB-00622	**249**
	80	Each	LAB-00623	**272**
	100	Each	LAB-00624	**316**
	125	Each	LAB-00625	**495**
	150	Each	LAB-00626	**542**
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	**601**
	700	Each cut	LAB-00628	**616**
	750	Each cut	LAB-00629	**665**
	800	Each cut	LAB-00630	**707**
	900	Each cut	LAB-00631	**794**
	1000	Each cut	LAB-00632	**882**
	1100	Each cut	LAB-00633	**972**
	1200	Each cut	LAB-00634	**1061**
23	Cutting A.C. Pipes without water in mains Dia. of pipes in mm.			
	Dia. of Pipes in mm			
	80	Each cut	LAB-00635	**39**
	100	Each cut	LAB-00636	**39**
	125	Each cut	LAB-00637	**39**
	150	Each cut	LAB-00638	**39**
	200	Each cut	LAB-00639	**41**
	250	Each cut	LAB-00640	**67**
	300	Each cut	LAB-00641	**67**
	350	Each cut	LAB-00642	**83**
	400	Each cut	LAB-00643	**91**
	450	Each cut	LAB-00644	**113**
	500	Each cut	LAB-00645	**126**
	600	Each cut	LAB-00646	**139**
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	**913**

	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	**2788**
	c) Cutting open water bound macadam road including soiling	1 Cum	LAB-00649	**283**
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.10.24/-
	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.166.78/-
	Total hire charges of Electrically driven dewatering pump per hour	**Per hr**	= (10.24xhp capacity) +166.78	
	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.25.51/-
	ii. Other expenses in terms of Mazdoor, pump operator and	**Per hr**	LAB-00656	Rs.201.55/-

	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**	= (25.51xhp capacity)+201.55	
	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	**13884**
	b) 1 to 2 m deep under water.	10 Cum	LAB-00659	**19888**
	c) 2 to 5 m deep under water.	10 Cum	LAB-00660	**29850**
	d) Beyond 5 m deep under water for every additional 1 m depth over item 'c'	10 Cum	LAB-00661	**5703**
	NOTE:- The above rates do not include rock requiring blasting or chiseling			
30	Laying and jointing perforated RCC pipes 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	**43**
	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	**4229**
	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	**3196**
	4) Side wall straight surfaces. (rate is for both sides centering)		LAB-00666	**2843**
	5) Dome.		LAB-00667	**3465**
	6) Roof Slab.		LAB-00668	**1938**
	7) Column braces and beams		LAB-00669	**1427**
	8) Circular braces, ring beams & circular column.		LAB-00670	**1566**
	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 (rate is for both sides centering) including open drains	1 Sqm of centering area	LAB-00671	**1000/Sqm**
	4-b) VCC vertical walls of plane surface (rate is for both sides centering) including open drains	1 Sqm of centering area	LAB-00672	**980/ Sqm**
	5) RCC vertical walls of circular faces (rate is for both sides centering)	1 Sqm of centering area	LAB-00673	**1270/ Sqm**
	Note: The Centering charges for item No's 4 & 5 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.			
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	**169**
	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	**53**
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	**2871**
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	**20.07**
b	1000 Kilo liters	Per liter	LAB-00678	**16.67**
c	1500 Kilo liters	Per liter	LAB-00679	**15.03**
d	2000 Kilo liters	Per liter	LAB-00680	**13.08**
e	2500 Kilo liters	Per liter	LAB-00681	**12.26**
	1) The above rates are arrived with base rate of Cement Rs.3672/- per MT (as per G.o.Ms.No.22 Dt:13-04-2020 of YSR NIRMAN) & Steel Rs 55000/- per MT(Fe 500) (BoCE rates for the month of January-2021) 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 **SBC of 15 T/Sqm.**			
	a) For every decrease of 2.50 T/Sqm of SBC, the rate shall be increased by **2.50% on basic rate.**			
	b) For every increase of 2.5 T/Sqm of SBC, the rate shall be decreased by**1.0% on basic rate up to 20 T/Sqm**			
	c) For SBC below 10T/Sqm , solid raft shall be provided and for solid raft the rate shall be increased by **10% on basic rate.**			
	d) 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-3672)/3672 } x 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-55000)/55000} x0.2 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 Kl 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 Kl 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 Kl ELSRs Inlet Pipe - 400mm dia. Out let Pipe - 500mm dia. DI valves – 2 No's Over Flow pipe - 500m dia. Scour Pipe - 200mm dia.

	Note: Any deviation from the above sizes as per design, shall be paid or recovered.
	(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 1st 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) Lightening 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	**61.86**
b	15,000 Liters capacity	Per liter	LAB-00683	**46.20**
c	20,000 Liters capacity	Per liter	LAB-00684	**41.79**
d	40,000 Liters capacity	Per liter	LAB-00685	**35.43**
e	60,000 Liters capacity	Per liter	LAB-00686	**26.85**
f	1,00,000 Liters capacity	Per liter	LAB-00687	**24.77**
g	2,00,000 Liters capacity	Per liter	LAB-00688	**21.65**
h	3,00,000 Liters capacity	Per liter	LAB-00689	**20.37**
i	4,00,000 Liters capacity	Per liter	LAB-00690	**17.94**
j	4,50,000 Liters capacity	Per liter	LAB-00691	**15.51**
	NOTE: -1). All concrete members shall be designed with M30 grade design mix.			
	2) For intermediate ranges proportional rates may be adopted			

	2) The above rates are applicable for Elevated Level Services Reservoirs / OHSRs with RAFT FOUNDATION and a rate of Rs.3672/- per tonne for cement (as per G.o.Ms.No.22 Dt:13-04-2020 of YSR NIRMAN) and Rs.55000/- 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.
	3) 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
	4) 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
	5) The above rates shall be increased / decreased due to increase / decrease in the cost of cement by Basic Rate x {(Rc-3672)/3672} x 0.07 Rc = Rate of cement (Rs per Mt) at the time of preparation of estimate.
	6)The above rates shall be increased / decreased due to increase / decrease in the cost of steel by Basic Rate x { (Rs-55000)/55000 x0.2} Rs = Rate of steel (Rs per Mt) at the time of preparation of estimate.
	7) Rate inclusive of three coats of epoxy paint Food Grade of best quality to inner surface of the Reservoir including roof.
	8) 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.
	9) 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.
	10) (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.
	11) 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.
	12) 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 %.
	13) The rate is arrived with the Cement rate of Rs.3672/- per MT (as per G.o.Ms.No.22 Dt:13-04-2020 of YSR NIRMAN) & Steel rate of 55000/(Fe 500)- approved by the BoCE for the month of January-2021.
	13) 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) Lightening arrestor, including conductor and earthling 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 confirming 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	**4.87**
	2) 5.0 MLD	Per liter	LAB-00693	**3.97**
	3) 10.0 MLD	Per liter	LAB-00694	**3.58**
	4) 20.0 MLD	Per liter	LAB-00695	**2.88**
	5) 30.00 MLD and above	Per liter	LAB-00696	**2.50**
	NOTE :-			
	a) For Intermediate Capacities proportional rates may be adopted			

	b) The above rates are applicable with Cement @ rate of Rs.3672/- per MT (as per G.o.Ms.No.22 Dt:13-04-2020 of YSR NIRMAN) and Steel of Rs. 55000/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-3672)/3672} x 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-55000)/55000} x0.2 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) For SBC below 10T/Sqm , solid raft shall be provided and for solid raft the rate shall be increased by **10% 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.
	j) The rate is arrived with the **Cement rate of Rs.3672/-** per MT (as per G.o.Ms.No.22 Dt:13-04-2020 of YSR NIRMAN) & **Steel rate of 55000/-** approved by the BoCE for the month of Janaury-2021.
	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 horizotals,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) Clarifloccualation 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 confirming 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 2021-22					
			Code	NP- 2 Class	Code	NP - 3 Class	Code	NP - 4 Class
	80 mm dia.	Meter	MAT-05615	137				
	100 mm dia.	Meter	MAT-05616	159				
	150 mm dia.	Meter	MAT-05617	189				
	200 mm dia.	Meter	MAT-05618	225				
	225 mm dia.	Meter	MAT-05619	244				
	250 mm dia.	Meter	MAT-05620	257				
	300 mm dia.	Meter	MAT-05621	373	MAT-05636	883	MAT-05651	895
	350 mm dia.	Meter	MAT-05622	463	MAT-05637	1048	MAT-05652	1068
	400 mm dia.	Meter	MAT-05623	536	MAT-05638	1154	MAT-05653	1181
	450 mm dia.	Meter	MAT-05624	655	MAT-05639	1327	MAT-05654	1343
	500 mm dia.	Meter	MAT-05625	715	MAT-05640	1432	MAT-05655	1655
	600 mm dia.	Meter	MAT-05626	1064	MAT-05641	2172	MAT-05656	2565
	700 mm dia.	Meter	MAT-05627	1356	MAT-05642	2690	MAT-05657	3437
	800 mm dia.	Meter	MAT-05628	1661	MAT-05643	3555	MAT-05658	4469
	900 mm dia.	Meter	MAT-05629	2099	MAT-05644	4459	MAT-05659	5581
	1000 mm dia.	Meter	MAT-05630	2567	MAT-05645	5455	MAT-05660	7658
	1100 mm dia.	Meter	MAT-05631	3020	MAT-05646	6552	MAT-05661	8866
	1200 mm dia.	Meter	MAT-05632	3600	MAT-05647	7714	MAT-05662	10362
	1400 mm dia.	Meter	MAT-05633	4933	MAT-05648	9930	MAT-05663	14280
	1600 mm dia.	Meter	MAT-05634	5671	MAT-05649	12875	MAT-05664	16964
	1800 mm dia.	Meter	MAT-05635	7472	MAT-05650	17067	MAT-05665	22727

Note : All prices are ex-works.

The above rates of RCC Plain ended pipes are based on the following raw materials

Cost Cement. Rs.3672/- per MT (Excluding all taxes and freight).

Steel (M.S. Rods) - Rs.53000/- 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 X Ws.

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

S1 = Rs. 53000/- , S2 = Cost of M S Rods (Rs. per MT Excluding all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 3672/- 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.

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 2021-22					
			Code	NP - 2 Class	Code	NP - 3 Class	Code	NP - 4 Class
	80 mm dia.	Each	MAT-05666	43				
	100 mm dia.	Each	MAT-05667	43				
	150 mm dia.	Each	MAT-05668	44				
	200 mm dia.	Each	MAT-05669	62				
	225 mm dia.	Each	MAT-05670	66				
	250 mm dia.	Each	MAT-05671	72				
	300 mm dia.	Each	MAT-05672	95	MAT-05687	133	MAT-05702	133
	350 mm dia.	Each	MAT-05673	118	MAT-05688	169	MAT-05703	169
	400 mm dia.	Each	MAT-05674	130	MAT-05689	193	MAT-05704	193
	450 mm dia.	Each	MAT-05675	205	MAT-05690	258	MAT-05705	258
	500 mm dia.	Each	MAT-05676	231	MAT-05691	309	MAT-05706	309
	600 mm dia.	Each	MAT-05677	316	MAT-05692	402	MAT-05707	402
	700 mm dia.	Each	MAT-05678	410	MAT-05693	538	MAT-05708	538
	800 mm dia.	Each	MAT-05679	576	MAT-05694	689	MAT-05709	689
	900 mm dia.	Each	MAT-05680	691	MAT-05695	803	MAT-05710	803
	1000 mm dia.	Each	MAT-05681	809	MAT-05696	1002	MAT-05711	1002
	1100 mm dia.	Each	MAT-05682	986	MAT-05697	1271	MAT-05712	1271
	1200 mm dia.	Each	MAT-05683	1196	MAT-05698	1590	MAT-05713	1590
	1400 mm dia.	Each	MAT-05684	1541	MAT-05699	2013	MAT-05714	2013
	1600 mm dia.	Each	MAT-05685	1972	MAT-05700	2574	MAT-05715	2574
	1800 mm dia.	Each	MAT-05686	1991	MAT-05701	3310	MAT-05716	3310

The above rates of RCC Collars suitable to plain ended pipes are based on the following raw materials cost. Cement. Rs.3672/- per MT(Excluding all taxes and freight).

Steel (M.S. Rods) - Rs.53000/- 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 X Ws.
R2= Variation (increase /decrease) in cost (Rs. per each) due
to change in the cost of Cement = (C2-C1)/1000 X Wc.
S1 = Rs. 53000/- , S2 = Cost of M S Rods (Rs. per MT excluding all taxes and freight) at the time of preparation of estimate.
C1 = Rs.3672/-,
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 2021-22					
			Code	NP - 2 Class	Code	NP - 3 Class	Code	NP - 4 Class
	80 mm dia.	Meter	MAT-05717	172				
	100 mm dia.	Meter	MAT-05718	195				
	150 mm dia.	Meter	MAT-05719	228				
	200 mm dia.	Meter	MAT-05720	280				
	225 mm dia.	Meter	MAT-05721	303				
	250 mm dia.	Meter	MAT-05722	323				
	300 mm dia.	Meter	MAT-05723	456	MAT-05738	1139	MAT-05753	1203
	350 mm dia.	Meter	MAT-05724	586	MAT-05739	1408	MAT-05754	1431
	400 mm dia.	Meter	MAT-05725	644	MAT-05740	1561	MAT-05755	1586
	450 mm dia.	Meter	MAT-05726	804	MAT-05741	1722	MAT-05756	1733
	500 mm dia.	Meter	MAT-05727	926	MAT-05742	1967	MAT-05757	2135
	600 mm dia.	Meter	MAT-05728	1300	MAT-05743	2758	MAT-05758	2783
	700 mm dia.	Meter	MAT-05729	1683	MAT-05744	3523	MAT-05759	3608
	800 mm dia.	Meter	MAT-05730	2164	MAT-05745	4665	MAT-05760	4691
	900 mm dia.	Meter	MAT-05731	2743	MAT-05746	5859	MAT-05761	5922
	1000 mm dia.	Meter	MAT-05732	3348	MAT-05747	6578	MAT-05762	6794
	1100 mm dia.	Meter	MAT-05733	3894	MAT-05748	7758	MAT-05763	8026
	1200 mm dia.	Meter	MAT-05734	4392	MAT-05749	9158	MAT-05764	9393
	1400 mm dia.	Meter	MAT-05735	6314	MAT-05750	12122	MAT-05765	13316
	1600 mm dia.	Meter	MAT-05736	7813	MAT-05751	15733	MAT-05766	15824
	1800 mm dia.	Meter	MAT-05737	8671	MAT-05752	20862	MAT-05767	21218

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.3672/- per MT,(Excluding all taxes and freight).

Steel (M.S. Rods) – Rs.53000/- 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 X Ws.

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

S1 = Rs. 53000/- , S2 = Cost of M S Rods (Rs. per MT excluding all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 3672/- , 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			2021-22		
			Code	P1 - Class	Code	P2 - Class	Code	P3 - Class
	80 mm dia.	Meter	MAT-05768	231	MAT-05786	258	MAT-05802	295
	100 mm dia.	Meter	MAT-05769	258	MAT-05787	310	MAT-05803	358
	150 mm dia.	Meter	MAT-05770	358	MAT-05788	461	MAT-05804	568
	200 mm dia.	Meter	MAT-05771	415	MAT-05789	596	MAT-05805	785
	225 mm dia.	Meter	MAT-05772	467	MAT-05790	676	MAT-05806	873
	250 mm dia.	Meter	MAT-05773	511	MAT-05791	719	MAT-05807	908
	300 mm dia.	Meter	MAT-05774	686	MAT-05792	1031	MAT-05808	1278
	350 mm dia.	Meter	MAT-05775	854	MAT-05793	1442	MAT-05809	1853
	400 mm dia.	Meter	MAT-05776	1014	MAT-05794	1916	MAT-05810	2458
	450 mm dia.	Meter	MAT-05777	1071	MAT-05795	2270	MAT-05811	3009
	500 mm dia.	Meter	MAT-05778	1443	MAT-05796	2447	MAT-05812	3404
	600 mm dia.	Meter	MAT-05779	1975	MAT-05797	3653	MAT-05813	4701
	700 mm dia.	Meter	MAT-05780	2638	MAT-05798	4785	MAT-05814	5943
	800 mm dia.	Meter	MAT-05781	3297	MAT-05799	5640	MAT-05815	7153
	900 mm dia.	Meter	MAT-05782	3968	MAT-05800	6600		
	1000 mm dia.	Meter	MAT-05783	5038	MAT-05801	7539		
	1100 mm dia.	Meter	MAT-05784	6054				
	1200 mm dia.	Meter	MAT-05785	7074				

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.3672/- per MT,(Excluding all taxes and freight).
Steel (M.S. Rods) - Rs.53000/- 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 X Ws.
R2= Variation (increase / decrease) in cost (Rs. per Meter)due to change in the cost of Cement = (C2-C1)/1000 X Wc.
S1 = Rs. 53000/-
S2 = Cost of M S Rods (Rs. per MT excluding all taxes and freight) at the time of preparation of estimate.
C1 = Rs. 3672/-, 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 2021-22					
			Code	NP - 2 Class	Code	NP - 3 Class	Code	NP - 4 Class
	80 mm dia.	Each	MAT-05816	26				
	100 mm dia.	Each	MAT-05817	32				
	150 mm dia.	Each	MAT-05818	57				
	200 mm dia.	Each	MAT-05819	67				
	225 mm dia.	Each	MAT-05820	73				
	250 mm dia.	Each	MAT-05821	82				
	300 mm dia.	Each	MAT-05822	100	MAT-05837	129	MAT-05852	129
	350 mm dia.	Each	MAT-05823	116	MAT-05838	154	MAT-05853	154
	400 mm dia.	Each	MAT-05824	128	MAT-05839	175	MAT-05854	175
	450 mm dia.	Each	MAT-05825	145	MAT-05840	198	MAT-05855	198
	500 mm dia.	Each	MAT-05826	189	MAT-05841	227	MAT-05856	227
	600 mm dia.	Each	MAT-05827	248	MAT-05842	329	MAT-05857	329
	700 mm dia.	Each	MAT-05828	248	MAT-05843	394	MAT-05858	394
	800 mm dia.	Each	MAT-05829	428	MAT-05844	478	MAT-05859	478
	900 mm dia.	Each	MAT-05830	536	MAT-05845	646	MAT-05860	646
	1000 mm dia.	Each	MAT-05831	627	MAT-05846	780	MAT-05861	780
	1100 mm dia.	Each	MAT-05832	754	MAT-05847	999	MAT-05862	999
	1200 mm dia.	Each	MAT-05833	1208	MAT-05848	1256	MAT-05863	1256
	1400 mm dia.	Each	MAT-05834	1328	MAT-05849	1382	MAT-05864	1382
	1600 mm dia.	Each	MAT-05835	1654	MAT-05850	1686	MAT-05865	1686
	1800 mm dia.	Each	MAT-05836	2060	MAT-05851	2154	MAT-05866	2154

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	26	MAT-05885	26	MAT-05901	26
	100 mm dia.	Each	MAT-05868	32	MAT-05886	33	MAT-05902	33
	150 mm dia.	Each	MAT-05869	57	MAT-05887	57	MAT-05903	57
	200 mm dia.	Each	MAT-05870	67	MAT-05888	67	MAT-05904	67
	225 mm dia.	Each	MAT-05871	73	MAT-05889	75	MAT-05905	77
	250 mm dia.	Each	MAT-05872	82	MAT-05890	85	MAT-05906	86
	300 mm dia.	Each	MAT-05873	100	MAT-05891	106	MAT-05907	110
	350 mm dia.	Each	MAT-05874	116	MAT-05892	132	MAT-05908	145
	400 mm dia.	Each	MAT-05875	128	MAT-05893	175	MAT-05909	178
	450 mm dia.	Each	MAT-05876	145	MAT-05894	200	MAT-05910	205
	500 mm dia.	Each	MAT-05877	189	MAT-05895	227	MAT-05911	237
	600 mm dia.	Each	MAT-05878	248	MAT-05896	280	MAT-05912	285
	700 mm dia.	Each	MAT-05879	338	MAT-05897	370	MAT-05913	394
	800 mm dia.	Each	MAT-05880	428	MAT-05898	474	MAT-05914	474
	900 mm dia.	Each	MAT-05881	536	MAT-05899	598		
	1000 mm dia.	Each	MAT-05882	627	MAT-05900	722		
	1100 mm dia.	Each	MAT-05883	754				
	1200 mm dia.	Each	MAT-05884	1208				

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.	4.00	0.17		
	100 mm dia.	5.32	0.17		
	150 mm dia.	7.99	0.32		
	200 mm dia.	10.65	0.32		
	225 mm dia.	11.98	0.51		
	250 mm dia.	13.31	0.51		
	300 mm dia.	18.65	0.68	51.92	1.36
	350 mm dia.	26.63	1.52	55.92	1.52
	400 mm dia.	29.30	1.69	66.57	2.02
	450 mm dia.	38.61	2.02	71.89	2.36
	500 mm dia.	41.28	2.36	78.55	2.36
	600 mm dia.	59.90	3.71	118.48	5.24
	700 mm dia.	75.88	5.24	131.80	6.08
	800 mm dia.	89.20	5.24	158.42	6.08
	900 mm dia.	102.50	5.24	207.68	11.48
	1000 mm dia.	151.77	10.80	250.28	11.48
	1100 mm dia.	166.40	10.80	271.58	12.49
	1200 mm dia.	189.04	11.48	303.53	12.49
	1400 mm dia.	227.65	11.48	412.70	13.00
	1600 mm dia.	263.60	11.48	495.23	13.00
	1800 mm dia.	303.53	11.48	660.31	18.24

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.	5.32	0.16		
	100 mm dia.	5.32	0.30		
	150 mm dia.	9.32	0.30		
	200 mm dia.	11.98	0.61		
	225 mm dia.	13.31	0.61		
	250 mm dia.	14.65	1.38		
	300 mm dia.	23.97	1.53	62.98	1.84
	350 mm dia.	27.95	1.69	68.47	2.14
	400 mm dia.	27.95	1.99	84.90	4.00
	450 mm dia.	39.94	2.14	93.11	4.00
	500 mm dia.	43.93	2.31	102.70	4.30
	600 mm dia.	57.25	4.00	138.30	6.13
	700 mm dia.	70.55	4.30	186.22	12.12
	800 mm dia.	97.18	6.59	220.46	12.12
	900 mm dia.	145.11	11.82	254.69	12.12
	1000 mm dia.	165.08	11.82	268.38	12.12
	1100 mm dia.	186.38	12.12	287.55	12.12
	1200 mm dia.	207.68	12.12	321.78	12.42
	1400 mm dia.	258.27	12.12	431.33	12.42
	1600 mm dia.	306.20	12.42	509.39	13.35
	1800 mm dia.	379.41	12.42	679.17	18.26
		P2 – Class		P3 – Class	
	80 mm dia.	5.32	0.16	5.32	0.16
	100 mm dia.	5.32	0.30	5.32	0.30

	150 mm dia.	9.32	0.30	9.32	0.30
	200 mm dia.	11.98	0.61	15.97	1.38
	225 mm dia.	15.97	1.38	18.65	1.53
	250 mm dia.	17.30	1.53	22.63	1.69
	300 mm dia.	33.27	1.84	38.61	1.99
	350 mm dia.	41.28	2.14	53.26	2.31
	400 mm dia.	49.26	2.31	70.55	4.00
	450 mm dia.	62.57	3.84	87.87	4.00
	500 mm dia.	70.55	4.00	106.50	5.99
	600 mm dia.	93.20	4.00	154.42	7.67
	700 mm dia.	139.78	8.13	224.98	12.12
	800 mm dia.	185.05	11.51	287.55	12.12
	900 mm dia.	224.98	12.12		
	1000 mm dia.	276.91	12.42		

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 2021-22						
				Code	Class – 15	Code	Class – 20	Code	Class - 25
	80 mm dia.	Rate/Meter		MAT-05915	206	MAT-05933	225	MAT-05951	281
	100 mm dia.	Rate/Meter		MAT-05916	271	MAT-05934	344	MAT-05952	423
	125 mm dia.	Rate/Meter		MAT-05917	354	MAT-05935	441	MAT-05953	552
	150 mm dia.	Rate/Meter		MAT-05918	498	MAT-05936	618	MAT-05954	778
	200 mm dia.	Rate/Meter		MAT-05919	825	MAT-05937	1055	MAT-05955	1340
	250 mm dia.	Rate/Meter		MAT-05920	1048	MAT-05938	1357	MAT-05956	1698
	300 mm dia.	Rate/Meter		MAT-05921	1466	MAT-05939	1906	MAT-05957	2434
	350 mm dia.	Rate/Meter		MAT-05922	1786	MAT-05940	2321	MAT-05958	2924
	400 mm dia.	Rate/Meter		MAT-05923	2322	MAT-05941	3035	MAT-05959	3767
	450 mm dia.	Rate/Meter		MAT-05924	2753	MAT-05942	3653	MAT-05960	4574
	500 mm dia.	Rate/Meter		MAT-05925	3402	MAT-05943	4468	MAT-05961	5611
	600 mm dia.	Rate/Meter		MAT-05926	4834	MAT-05944	6312	MAT-05962	8043
	700 mm dia.	Rate/Meter		MAT-05927	6401	MAT-05945	8681	MAT-05963	11226
	750 mm dia.	Rate/Meter		MAT-05928	7293	MAT-05946	10021	MAT-05964	12847
	800 mm dia.	Rate/Meter		MAT-05929	8346	MAT-05947	11355	MAT-05965	14572
	850 mm dia.	Rate/Meter		MAT-05930	9361	MAT-05948	12775	MAT-05966	16409
	900 mm dia.	Rate/Meter		MAT-05931	10436	MAT-05949	14270	MAT-05967	18355
	1000 mm dia.	Rate/Meter		MAT-05932	12884	MAT-05950	17521	MAT-05968	22572
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	54	LAB-00715	54	LAB-00733	54
	100 mm dia.	Rate/Meter		LAB-00698	78	LAB-00716	78	LAB-00734	78

	125 mm dia.	Rate/Meter		LAB-00699	85	LAB-00717	85	LAB-00735	85
	150 mm dia.	Rate/Meter		LAB-00700	102	LAB-00718	102	LAB-00736	102
	200 mm dia.	Rate/Meter		LAB-00701	134	LAB-00719	134	LAB-00737	134
	250 mm dia.	Rate/Meter		LAB-00702	161	LAB-00720	161	LAB-00738	161
	300 mm dia.	Rate/Meter		LAB-00703	197	LAB-00721	197	LAB-00739	197
	350 mm dia.	Rate/Meter		LAB-00704	334	LAB-00722	334	LAB-00740	334
	400 mm dia.	Rate/Meter		LAB-00705	504	LAB-00723	504	LAB-00741	504
	450 mm dia.	Rate/Meter		LAB-00706	612	LAB-00724	612	LAB-00742	612
	500 mm dia.	Rate/Meter		LAB-00707	777	LAB-00725	777	LAB-00743	777
	600 mm dia.	Rate/Meter		LAB-00708	836	LAB-00726	836	LAB-00744	836
	700 mm dia.	Rate/Meter		LAB-00709	932	LAB-00727	932	LAB-00745	932
	750 mm dia.	Rate/Meter		LAB-00710	1037	LAB-00728	1037	LAB-00746	1037
	800 mm dia.	Rate/Meter		LAB-00711	1092	LAB-00729	1092	LAB-00747	1092
	850 mm dia.	Rate/Meter		LAB-00712	1166	LAB-00730	1166	LAB-00748	1166
	900 mm dia.	Rate/Meter		LAB-00713	1271	LAB-00731	1271	LAB-00749	1271
	1000 mm dia.	Rate/Meter		LAB-00714	1308	LAB-00732	1308	LAB-00750	1308
	1. The above rates of AC Pipes are based on the Cement cost of RS 3672/- per MT (Excluding all taxes and freight). 2. The above rates of AC pipes are based on the Fiber cost of Rs 78,500/- per M.T (Excluding all taxes &Freight) For any Increase/ Decrease in the rate of cement, the price of AC pipe per Rmt shall be increased/decreased as under. W x 0.85 x IC Where W = Weight of pipe in Kg's/Rmt IC = Increase/Decrease in cost of cement/Kg For any increase/decrease in the rate of fiber, the price of AC pipe per Rmt shall be increased/Decreased as under : W x 0.15 X IF Where : W=: Weight of pipe in Kg's/Rmt IF = Increase /Decrease in cost of fiber/Kg								
Note:	1) The Fiber rates are to be obtained from A.C. Pipe manufacturer of "Mazza" process. 2) The cement rate shall be communicated by the sub-committee of Board of Chief engineers.								
	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 2021-22						
				Code	Class – 15	Code	Class - 20	Code	Class – 25
	80 mm dia.	Rate/Each		MAT-05969	99	MAT-05987	107	MAT-06005	123
	100 mm dia.	Rate/Each		MAT-05970	129	MAT-05988	139	MAT-06006	166
	125 mm dia.	Rate/Each		MAT-05971	162	MAT-05989	177	MAT-06007	213
	150 mm dia.	Rate/Each		MAT-05972	189	MAT-05990	235	MAT-06008	291
	200 mm dia.	Rate/Each		MAT-05973	347	MAT-05991	378	MAT-06009	481
	250 mm dia.	Rate/Each		MAT-05974	404	MAT-05992	509	MAT-06010	649
	300 mm dia.	Rate/Each		MAT-05975	527	MAT-05993	683	MAT-06011	879
	350 mm dia.	Rate/Each		MAT-05976	685	MAT-05994	883	MAT-06012	1128
	400 mm dia.	Rate/Each		MAT-05977	1054	MAT-05995	1376	MAT-06013	1764
	450 mm dia.	Rate/Each		MAT-05978	1261	MAT-05996	1665	MAT-06014	2139
	500 mm dia.	Rate/Each		MAT-05979	1506	MAT-05997	2015	MAT-06015	2573
	600 mm dia.	Rate/Each		MAT-05980	1844	MAT-05998	2312	MAT-06016	2956
	700 mm dia.	Rate/Each		MAT-05981	2438	MAT-05999	3281	MAT-06017	4267
	750 mm dia.	Rate/Each		MAT-05982	2750	MAT-06000	3760	MAT-06018	4854
	800 mm dia.	Rate/Each		MAT-05983	3120	MAT-06001	4230	MAT-06019	5475
	850 mm dia.	Rate/Each		MAT-05984	3477	MAT-06002	4732	MAT-06020	6136
	900 mm dia.	Rate/Each		MAT-05985	3846	MAT-06003	5261	MAT-06021	6829
	1000 mm dia.	Rate/Each		MAT-05986	4695	MAT-06004	6396	MAT-06022	8336

1. The above rates of AC Coupling are based on the Cement cost of RS 3672/- 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 x 0.85 x 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 x 0.15 X 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 2021-22					
				Code	Class – 15	Code	Class – 20	Code	Class - 25
	80 mm dia.	Each Set		MAT-06023	75	MAT-06041	75	MAT-06059	75
	100 mm dia.	Each Set		MAT-06024	91	MAT-06042	91	MAT-06060	91
	125 mm dia.	Each Set		MAT-06025	119	MAT-06043	119	MAT-06061	119
	150 mm dia.	Each Set		MAT-06026	150	MAT-06044	150	MAT-06062	150
	200 mm dia.	Each Set		MAT-06027	156	MAT-06045	156	MAT-06063	156
	250 mm dia.	Each Set		MAT-06028	180	MAT-06046	180	MAT-06064	180
	300 mm dia.	Each Set		MAT-06029	180	MAT-06047	180	MAT-06065	180
	350 mm dia.	Each Set		MAT-06030	205	MAT-06048	205	MAT-06066	205
	400 mm dia.	Each Set		MAT-06031	251	MAT-06049	251	MAT-06067	251
	450 mm dia.	Each Set		MAT-06032	294	MAT-06050	294	MAT-06068	294
	500 mm dia.	Each Set		MAT-06033	340	MAT-06051	340	MAT-06069	340
	600 mm dia.	Each Set		MAT-06034	385	MAT-06052	385	MAT-06070	385
	700 mm dia.	Each Set		MAT-06035	800	MAT-06053	800	MAT-06071	800
	750 mm dia.	Each Set		MAT-06036	831	MAT-06054	831	MAT-06072	831
	800 mm dia.	Each Set		MAT-06037	892	MAT-06055	892	MAT-06073	892
	850 mm dia.	Each Set		MAT-06038	994	MAT-06056	994	MAT-06074	994
	900 mm dia.	Each Set		MAT-06039	1045	MAT-06057	1045	MAT-06075	1045
	1000 mm dia.	Each Set		MAT-06040	1158	MAT-06058	1158	MAT-06076	1158

11. S o R FOR PRE-STRESSED (NON-CYLINDER) CONCRETE PIPES FOR THE YEAR 2021-22

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 2021-22.											
			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	3285	MAT-06096	3297	MAT-06115	3310	MAT-06134	3327	MAT-06153	3394	MAT-06172	3512
	400 MM DIA.	Meter	MAT-06078	3530	MAT-06097	3556	MAT-06116	3594	MAT-06135	3641	MAT-06154	3709	MAT-06173	3764
	450 MM DIA.	Meter	MAT-06079	3753	MAT-06098	3771	MAT-06117	3814	MAT-06136	3887	MAT-06155	3987	MAT-06174	4074
	500 MM DIA.	Meter	MAT-06080	4062	MAT-06099	4079	MAT-06118	4113	MAT-06137	4199	MAT-06156	4287	MAT-06175	4413
	600 MM DIA.	Meter	MAT-06081	4663	MAT-06100	4697	MAT-06119	4746	MAT-06138	4892	MAT-06157	5048	MAT-06176	5203
	700 MM DIA.	Meter	MAT-06082	5467	MAT-06101	5545	MAT-06120	5675	MAT-06139	5837	MAT-06158	6006	MAT-06177	6241
	800 MM DIA.	Meter	MAT-06083	6633	MAT-06102	6781	MAT-06121	6938	MAT-06140	7148	MAT-06159	7365	MAT-06178	7706
	900 MM DIA.	Meter	MAT-06084	7610	MAT-06103	7806	MAT-06122	8010	MAT-06141	8353	MAT-06160	8618	MAT-06179	9243
	1000 MM DIA.	Meter	MAT-06085	8970	MAT-06104	9226	MAT-06123	9494	MAT-06142	9764	MAT-06161	10093	MAT-06180	10813
	1100 MM DIA.	Meter	MAT-06086	10045	MAT-06105	10339	MAT-06124	10667	MAT-06143	10996	MAT-06162	11341	MAT-06181	12226
	1200	Meter	MAT-06087	11290	MAT-06106	11678	MAT-06125	12045	MAT-06144	12307	MAT-06163	12808	MAT-06182	14085

	MM DIA.													
	1300 MM DIA.	Meter	MAT-06088	12794	MAT-06107	13232	MAT-06126	13670	MAT-06145	14111	MAT-06164	15377	MAT-06183	15932
	1400 MM DIA.	Meter	MAT-06089	14809	MAT-06108	15322	MAT-06127	15846	MAT-06146	16712	MAT-06165	17771	MAT-06184	18554
	1500 MM DIA.	Meter	MAT-06090	16721	MAT-06109	17330	MAT-06128	17903	MAT-06147	19433	MAT-06166	20133	MAT-06185	22490
	1600 MM DIA.	Meter	MAT-06091	18801	MAT-06110	19458	MAT-06129	20117	MAT-06148	21949	MAT-06167	22741	MAT-06186	25022
	1700 MM DIA.	Meter	MAT-06092	20174	MAT-06111	20938	MAT-06130	21691	MAT-06149	23620	MAT-06168	26169	MAT-06187	27347
	1800 MM DIA.	Meter	MAT-06093	22307	MAT-06112	23731	MAT-06131	25023	MAT-06150	27133	MAT-06169	28138	MAT-06188	31158
	1900 MM DIA.	Meter	MAT-06094	23809	MAT-06113	25119	MAT-06132	27329	MAT-06151	28897	MAT-06170	31414	MAT-06189	33828
	2000 MM DIA.	Meter	MAT-06095	26172	MAT-06114	27805	MAT-06133	29264	MAT-06152	31931	MAT-06171	35241	MAT-06190	36631
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	278	MAT-06210	278	MAT-06229	278	MAT-06248	278	MAT-06267	278	MAT-06286	278
	400 MM	Meter	MAT-	300	MAT-	300	MAT-	300	MAT-	300	MAT-	300	MAT-	300

	DIA.		06192		06211		06230		06249		06268		06287	
	450 MM DIA.	Meter	MAT-06193	347	MAT-06212	347	MAT-06231	347	MAT-06250	347	MAT-06269	347	MAT-06288	347
	500 MM DIA.	Meter	MAT-06194	369	MAT-06213	369	MAT-06232	369	MAT-06251	369	MAT-06270	369	MAT-06289	369
	600 MM DIA.	Meter	MAT-06195	454	MAT-06214	454	MAT-06233	454	MAT-06252	454	MAT-06271	454	MAT-06290	454
	700 MM DIA.	Meter	MAT-06196	530	MAT-06215	530	MAT-06234	530	MAT-06253	530	MAT-06272	530	MAT-06291	530
	800 MM DIA.	Meter	MAT-06197	601	MAT-06216	601	MAT-06235	601	MAT-06254	601	MAT-06273	601	MAT-06292	601
	900 MM DIA.	Meter	MAT-06198	657	MAT-06217	657	MAT-06236	657	MAT-06255	657	MAT-06274	657	MAT-06293	657
	1000 MM IA	Meter	MAT-06199	759	MAT-06218	759	MAT-06237	759	MAT-06256	759	MAT-06275	759	MAT-06294	759
	1100 MM IA	Meter	MAT-06200	854	MAT-06219	854	MAT-06238	854	MAT-06257	854	MAT-06276	854	MAT-06295	854
	1200 MMDIA.	Meter	MAT-06201	945	MAT-06220	945	MAT-06239	945	MAT-06258	945	MAT-06277	945	MAT-06296	945
	1300 MM DIA.	Meter	MAT-06202	1072	MAT-06221	1072	MAT-06240	1072	MAT-06259	1072	MAT-06278	1072	MAT-06297	1072
	1400 MM DIA.	Meter	MAT-06203	1213	MAT-06222	1213	MAT-06241	1213	MAT-06260	1213	MAT-06279	1213	MAT-06298	1213
	1500 MM DIA.	Meter	MAT-06204	1316	MAT-06223	1316	MAT-06242	1316	MAT-06261	1316	MAT-06280	1316	MAT-06299	1316
	1600 MM DIA.	Meter	MAT-06205	1474	MAT-06224	1474	MAT-06243	1474	MAT-06262	1474	MAT-06281	1474	MAT-06300	1474
	1700	Meter	MAT-	1604	MAT-	1604	MAT-	1604	MAT-	1604	MAT-	1604	MAT-	1604

	MM DIA.		06206		06225		06244		06263		06282		06301	
	1800 MM DIA.	Meter	MAT-06207	1697	MAT-06226	1697	MAT-06245	1697	MAT-06264	1697	MAT-06283	1697	MAT-06302	1697
	1900 MM DIA.	Meter	MAT-06208	1791	MAT-06227	1791	MAT-06246	1791	MAT-06265	1791	MAT-06284	1791	MAT-06303	1791
	2000 MM DIA.	Meter	MAT-06209	1888	MAT-06228	1888	MAT-06247	1888	MAT-06266	1888	MAT-06285	1888	MAT-06304	1888
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	**1.89**		**1.89**		**1.89**		**1.89**		**1.89**		**1.89**	
	400 MM DIA.	Per K.M/M	**1.89**		**1.89**		**1.89**		**1.89**		**1.89**		**1.89**	
	450 MM DIA.	Per K.M/M	**2.21**		**2.21**		**2.21**		**2.21**		**2.21**		**2.21**	
	500 MM DIA.	Per K.M/M	**2.31**		**2.31**		**2.31**		**2.31**		**2.31**		**2.31**	
	600 MM DIA.	Per K.M/M	**2.63**		**2.63**		**2.63**		**2.63**		**2.63**		**2.63**	
	700 MM DIA.	Per K.M/M	**4.31**		**4.31**		**4.31**		**4.31**		**4.31**		**4.31**	
	800 MM DIA.	Per K.M/M	**4.31**		**4.31**		**4.31**		**4.31**		**4.31**		**4.31**	
	900 MM	Per K.M/M	**4.31**		**4.31**		**4.31**		**4.31**		**4.31**		**4.31**	

	DIA.							
	1000 MM DIA.	Per K.M/M	**6.93**	**6.93**	**6.93**	**6.93**	**6.93**	**6.93**
	1100 MM DIA.	Per K.M/M	**6.93**	**6.93**	**6.93**	**6.93**	**6.93**	**6.93**
	1200 MM DIA.	Per K.M/M	**13.23**	**13.23**	**13.23**	**13.23**	**13.23**	**13.23**
	1300 MM DIA.	Per K.M/M	**13.44**	**13.44**	**13.44**	**13.44**	**13.44**	**13.44**
	1400 MM DIA.	Per K.M/M	**13.44**	**13.44**	**13.44**	**13.44**	**13.44**	**13.44**
	1500 MM DIA.	Per K.M/M	**13.44**	**13.44**	**13.44**	**13.44**	**13.44**	**13.44**
	1600 MM DIA.	Per K.M/M	**15.02**	**15.02**	**15.02**	**15.02**	**15.02**	**15.02**
	1700 MM DIA.	Per K.M/M	**15.02**	**15.02**	**15.02**	**15.02**	**15.02**	**15.02**
	1800 MM DIA.	Per K.M/M	**15.33**	**15.33**	**15.33**	**15.33**	**15.33**	**15.33**

	1900 MM DIA.	Per K.M/M	**16.07**		**16.07**		**16.07**		**16.07**		**16.07**		**16.07**	
	2000 MM DIA.	Per K.M/M	**16.07**		**16.07**		**16.07**		**16.07**		**16.07**		**16.07**	
4	Cost of Machine end pair with 100 mm width MS Barrel on each side of Socket and Spigot for providing MS Specials on PSC Pipelines excluding Cost of MS Barrel / Special including cost and conveyance to site etc., complete. Excluding Taxes.													
	350 MM DIA.	Per Pair	MAT-06305	11,300	MAT-06315	11,300	MAT-06334	11,300	MAT-06353	11,300	MAT-06372	11,300	MAT-06391	11,300
	400 MM DIA.	Per Pair	MAT-06306	12,900	MAT-06316	12,900	MAT-06335	12,900	MAT-06354	12,900	MAT-06373	12,900	MAT-06392	12,900
	450 MM DIA.	Per Pair	MAT-06307	14,600	MAT-06317	14,600	MAT-06336	14,600	MAT-06355	14,600	MAT-06374	14,600	MAT-06393	14,600
	500 MM DIA.	Per Pair	MAT-06308	16,300	MAT-06318	16,300	MAT-06337	16,300	MAT-06356	16,300	MAT-06375	16,300	MAT-06394	16,300
	600 MM DIA.	Per Pair	MAT-06309	19,400	MAT-06319	19,400	MAT-06338	19,400	MAT-06357	19,400	MAT-06376	19,400	MAT-06395	19,400
	700 MM DIA.	Per Pair	MAT-06310	22,700	MAT-06320	22,700	MAT-06339	22,700	MAT-06358	22,700	MAT-06377	22,700	MAT-06396	22,700
	800 MM DIA.	Per Pair	MAT-06311	26,000	MAT-06321	26,000	MAT-06340	26,000	MAT-06359	26,000	MAT-06378	26,000	MAT-06397	26,000
	900 MM DIA.	Per Pair	MAT-06312	29,500	MAT-06322	29,500	MAT-06341	29,500	MAT-06360	29,500	MAT-06379	29,500	MAT-06398	29,500
	1000 MM DIA.	Per Pair	MAT-06313	31,900	MAT-06323	31,900	MAT-06342	31,900	MAT-06361	31,900	MAT-06380	31,900	MAT-06399	31,900
	1100	Per	MAT-06314	35,300	MAT-06324	35,300	MAT-06343	35,300	MAT-06362	35,300	MAT-06381	35,300	MAT-06400	35,300

	MM DIA.	Pair												
	1200 MM DIA.	Per Pair		38,500	MAT-06325	38,500	MAT-06344	38,500	MAT-06363	38,500	MAT-06382	38,500	MAT-06401	38,500
	1300 MM DIA.	Per Pair		41,600	MAT-06326	41,600	MAT-06345	41,600	MAT-06364	41,600	MAT-06383	41,600	MAT-06402	41,600
	1400 MM DIA.	Per Pair		49,500	MAT-06327	49,500	MAT-06346	49,500	MAT-06365	49,500	MAT-06384	49,500	MAT-06403	49,500
	1500 MM DIA.	Per Pair		58,400	MAT-06328	58,400	MAT-06347	58,400	MAT-06366	58,400	MAT-06385	58,400	MAT-06404	58,400
	1600 MM DIA.	Per Pair		65,300	MAT-06329	65,300	MAT-06348	65,300	MAT-06367	65,300	MAT-06386	65,300	MAT-06405	65,300
	1700 MM DIA.	Per Pair		73,500	MAT-06330	73,500	MAT-06349	73,500	MAT-06368	73,500	MAT-06387	73,500	MAT-06406	73,500
	1800 MM DIA.	Per Pair		84,300	MAT-06331	84,300	MAT-06350	84,300	MAT-06369	84,300	MAT-06388	84,300	MAT-06407	84,300
	1900 MM DIA.	Per Pair		97,800	MAT-06332	97,800	MAT-06351	97,800	MAT-06370	97,800	MAT-06389	97,800	MAT-06408	97,800
	2000 MM DIA.	Per Pair		1,14,500	MAT-06333	1,14,500	MAT-06352	1,14,500	MAT-06371	1,14,500	MAT-06390	1,14,500	MAT-06409	1,14,500

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 Special 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	810	500mm dia. x 20 mm Thick	Each Flange	MAT-06420	8,270
	100 mm dia. x 15 mm thick	Each Flange	MAT-06411	1,110	600 mm dia. x 20 mm thick	Each Flange	MAT-06421	10,410
	125 mm dia. x 15 mm thick	Each Flange	MAT-06412	1,340	700 mm dia. x 25 mm thick	Each Flange	MAT-06422	14,700
	150 mm dia. x 15 mm thick	Each Flange	MAT-06413	1,780	750 mm dia. x 25 mm thick	Each Flange	MAT-06423	16,160
	200 mm dia. x 15 mm thick	Each Flange	MAT-06414	2,230	800 mm dia. x 25 mm thick	Each Flange	MAT-06424	18,100
	250 mm dia. x 15 mm thick	Each Flange	MAT-06415	2,900	900 mm dia. x 25 mm thick	Each Flange	MAT-06425	20,790
	300 mm dia. x 15 mm thick	Each Flange	MAT-06416	3,300	1000 mm dia. x 25 mm thick	Each Flange	MAT-06426	24,500
	350 mm dia. x 18 mm thick	Each Flange	MAT-06417	4,790	1050 mm dia. x 25 mm thick	Each Flange	MAT-06427	26,020
	400 mm dia. x 18 mm thick	Each Flange	MAT-06418	5,980	1100 mm dia. x 25 mm thick	Each Flange	MAT-06428	28,060
	450 mm dia. x 18 mm thick	Each Flange	MAT-06419	6,950	1200 mm dia. x 32 mm thick	Each Flange	MAT-06429	37,170

Note:

a) The above rates are Excluding GST. At present prevailing GST rate is @ 18.00% on supply of PSC pipes. Transportation charges extra.
b) The above rates are considering (A) Landed price of HT Wire (Basic + Freight) @ Rs.60,500/- per MT (4 mm). (B) Landed price of Cement (Basic + Freight) @ Rs.3672/- per MT.
c) The above prices are subject to Price Variation clause. Revised rate = (R1 + R2), where R1 = Variation (increase / decrease) in cost (Rs.per Mtr) due to change in the cost of HT Wire which is = (H2 - H1) / 1000 x Wh. R2 = Variation (increase / decrease) in cost (Rs.per Mtr) due to change in the cost of Cement which is = (C2 - C1) / 1000 x Wc. ****** H1 = Rs.60,500/- per MT (4 mm) / H2 = Cost of HT Wire at the time of preparation of estimate, **C1 = Rs.3,672/- per MT,** C2 = Cost of Cement at the time of preparation of estimate, Wh = Weight of HT wire required (Kg per Mtr) Wc = Weight of Cement required (Kg per Mtr).
d) The above rates for MS Flanges are considering landed price of MS Plates as Rs.55,000/- per MT.

12. S o R FOR PRE-STRESSED (CYLINDER) CONCRETE PIPES FOR THE YEAR 2021-22

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 2021-22															
			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	5880	MAT-06448	5880	MAT-06466	5880	MAT-06484	5880	MAT-06502	5908	MAT-06520	5969	MAT-06538	6071	MAT-06556	6170	MAT-06574	6244
	450 MM DIA.	Meter	MAT-06431	6391	MAT-06449	6391	MAT-06467	6391	MAT-06485	6420	MAT-06503	6494	MAT-06521	6584	MAT-06539	6693	MAT-06557	6740	MAT-06575	6799
	500 MM DIA.	Meter	MAT-06432	6820	MAT-06450	6820	MAT-06468	6886	MAT-06486	6946	MAT-06504	7005	MAT-06522	7084	MAT-06540	7178	MAT-06558	7249	MAT-06576	7320
	600 MM DIA.	Meter	MAT-06433	7831	MAT-06451	7911	MAT-06469	7994	MAT-06487	8086	MAT-06505	8168	MAT-06523	8250	MAT-06541	8390	MAT-06559	8496	MAT-06577	8591
	700 MM DIA.	Meter	MAT-06434	8906	MAT-06452	9011	MAT-06470	9129	MAT-06488	9235	MAT-06506	9351	MAT-06524	9457	MAT-06542	9652	MAT-06560	9773	MAT-06578	9924
	800 MM DIA.	Meter	MAT-06435	10481	MAT-06453	10610	MAT-06471	10751	MAT-06489	10903	MAT-06507	11045	MAT-06525	11186	MAT-06543	11395	MAT-06561	11593	MAT-06579	11760
	900 MM DIA.	Meter	MAT-06436	11926	MAT-06454	12112	MAT-06472	12288	MAT-06490	12475	MAT-06508	12663	MAT-06526	12850	MAT-06544	13338	MAT-06562	13585	MAT-06580	13874
	1000 MM DIA.	Meter	MAT-06437	14306	MAT-06455	14529	MAT-06473	14754	MAT-06491	14987	MAT-06509	15209	MAT-06527	15443	MAT-06545	16087	MAT-06563	16414	MAT-06581	16739
	1100 MM DIA.	Meter	MAT-06438	15902	MAT-06456	16171	MAT-06474	16452	MAT-06492	16722	MAT-06510	17004	MAT-06528	17273	MAT-06546	18062	MAT-06564	18424	MAT-06582	18855
	1200 MM DIA.	Meter	MAT-06439	17687	MAT-06457	18015	MAT-06475	18332	MAT-06493	18660	MAT-06511	19000	MAT-06529	19326	MAT-06547	20263	MAT-06565	20727	MAT-06583	21188
	1300 MM DIA.	Meter	MAT-06440	19779	MAT-06458	20165	MAT-06476	20551	MAT-06494	20938	MAT-06512	21326	MAT-06530	22051	MAT-06548	22843	MAT-06566	23409	MAT-06584	24028
	1400 MM	Meter	MAT-06441	22160	MAT-06459	22639	MAT-06477	23127	MAT-06495	23661	MAT-06513	24602	MAT-06531	25227	MAT-06549	26119	MAT-06567	26381	MAT-06585	27442

	DIA.																		
	1500 MM DIA.	Meter	MAT-06442	26030	MAT-06460	26615	MAT-06478	27119	MAT-06496	27635	MAT-06514	28645	MAT-06532	29219	MAT-06550	29989	MAT-06568	31155	MAT-06586	31797
	1600 MM DIA.	Meter	MAT-06443	29354	MAT-06461	30143	MAT-06479	30811	MAT-06497	31891	MAT-06515	32549	MAT-06533	33271	MAT-06551	34594	MAT-06569	35321	MAT-06587	36047
	1700 MM DIA.	Meter	MAT-06444	31595	MAT-06462	32459	MAT-06480	33118	MAT-06498	34350	MAT-06516	35089	MAT-06534	36638	MAT-06552	37487	MAT-06570	38317	MAT-06588	39156
	1800 MM DIA.	Meter	MAT-06445	34564	MAT-06463	35523	MAT-06481	37399	MAT-06499	38563	MAT-06517	39702	MAT-06535	41837	MAT-06553	43646	MAT-06571	44576	MAT-06589	45526
	1900 MM DIA.	Meter	MAT-06446	40151	MAT-06464	40980	MAT-06482	42439	MAT-06500	43338	MAT-06518	45173	MAT-06536	46201	MAT-06554	47264	MAT-06572	48305	MAT-06590	49346
	2000 MM DIA.	Meter	MAT-06447	42366	MAT-06465	43888	MAT-06483	44896	MAT-06501	45918	MAT-06519	47964	MAT-06537	49097	MAT-06555	50281	MAT-06573	51433	MAT-06591	52598
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	573	MAT-06610	573	MAT-06628	573	MAT-06646	573	MAT-06664	573	MAT-06682	573	MAT-06700	573	MAT-06718	573	MAT-06736	573
	450 MM DIA.	Meter	MAT-06593	674	MAT-06611	674	MAT-06629	674	MAT-06647	674	MAT-06665	674	MAT-06683	674	MAT-06701	674	MAT-06719	674	MAT-06737	674
	500 MM DIA.	Meter	MAT-06594	734	MAT-06612	734	MAT-06630	734	MAT-06648	734	MAT-06666	734	MAT-06684	734	MAT-06702	734	MAT-06720	734	MAT-06738	734
	600 MM DIA.	Meter	MAT-06595	859	MAT-06613	859	MAT-06631	859	MAT-06649	859	MAT-06667	859	MAT-06685	859	MAT-06703	859	MAT-06721	859	MAT-06739	859
	700 MM DIA.	Meter	MAT-06596	978	MAT-06614	978	MAT-06632	978	MAT-06650	978	MAT-06668	978	MAT-06686	978	MAT-06704	978	MAT-06722	978	MAT-06740	978
	800 MM DIA.	Meter	MAT-06597	1124	MAT-06615	1124	MAT-06633	1124	MAT-06651	1124	MAT-06669	1124	MAT-06687	1124	MAT-06705	1124	MAT-06723	1124	MAT-06741	1124
	900 MM DIA.	Meter	MAT-06598	1266	MAT-06616	1266	MAT-06634	1266	MAT-06652	1266	MAT-06670	1266	MAT-06688	1266	MAT-06706	1266	MAT-06724	1266	MAT-06742	1266
	1000 MM DIA.	Meter	MAT-06599	1387	MAT-06617	1387	MAT-06635	1387	MAT-06653	1387	MAT-06671	1387	MAT-06689	1387	MAT-06707	1387	MAT-06725	1387	MAT-06743	1387

	1100 MM DIA.	Meter	MAT-06600	1573	MAT-06618	1573	MAT-06636	1573	MAT-06654	1573	MAT-06672	1573	MAT-06690	1573	MAT-06708	1573	MAT-06726	1573	MAT-06744	1573
	1200 MM DIA.	Meter	MAT-06601	1716	MAT-06619	1716	MAT-06637	1716	MAT-06655	1716	MAT-06673	1716	MAT-06691	1716	MAT-06709	1716	MAT-06727	1716	MAT-06745	1716
	1300 MM DIA.	Meter	MAT-06602	1836	MAT-06620	1836	MAT-06638	1836	MAT-06656	1836	MAT-06674	1836	MAT-06692	1836	MAT-06710	1836	MAT-06728	1836	MAT-06746	1836
	1400 MM DIA.	Meter	MAT-06603	2021	MAT-06621	2021	MAT-06639	2021	MAT-06657	2021	MAT-06675	2021	MAT-06693	2021	MAT-06711	2021	MAT-06729	2021	MAT-06747	2021
	1500 MM DIA.	Meter	MAT-06604	2244	MAT-06622	2244	MAT-06640	2244	MAT-06658	2244	MAT-06676	2244	MAT-06694	2244	MAT-06712	2244	MAT-06730	2244	MAT-06748	2244
	1600 MM DIA.	Meter	MAT-06605	2429	MAT-06623	2429	MAT-06641	2429	MAT-06659	2429	MAT-06677	2429	MAT-06695	2429	MAT-06713	2429	MAT-06731	2429	MAT-06749	2429
	1700 MM DIA.	Meter	MAT-06606	2735	MAT-06624	2735	MAT-06642	2735	MAT-06660	2735	MAT-06678	2735	MAT-06696	2735	MAT-06714	2735	MAT-06732	2735	MAT-06750	2735
	1800 MM DIA.	Meter	MAT-06607	2900	MAT-06625	2900	MAT-06643	2900	MAT-06661	2900	MAT-06679	2900	MAT-06697	2900	MAT-06715	2900	MAT-06733	2900	MAT-06751	2900
	1900 MM DIA.	Meter	MAT-06608	3163	MAT-06626	3163	MAT-06644	3163	MAT-06662	3163	MAT-06680	3163	MAT-06698	3163	MAT-06716	3163	MAT-06734	3163	MAT-06752	3163
	2000 MM DIA.	Meter	MAT-06609	3367	MAT-06627	3367	MAT-06645	3367	MAT-06663	3367	MAT-06681	3367	MAT-06699	3367	MAT-06717	3367	MAT-06735	3367	MAT-06753	3367
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).																		
	400 MM DIA.	Per KM/M	1.58		1.58		1.58		1.58		1.58		1.58		1.58		1.58		1.58	
	450 MM DIA.	Per KM/M	1.58		1.58		1.58		1.58		1.58		1.58		1.58		1.58		1.58	
	500 MM DIA.	Per KM/M	2.21		2.21		2.21		2.21		2.21		2.21		2.21		2.21		2.21	
	600 MM DIA.	Per KM/M	2.52		2.52		2.52		2.52		2.52		2.52		2.52		2.52		2.52	
	700 MM	Per KM/M	3.99		3.99		3.99		3.99		3.99		3.99		3.99		3.99		3.99	

	DIA.										
	800 MM DIA.	Per KM/M	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99
	900 MM DIA.	Per KM/M	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99
	1000 MM DIA.	Per KM/M	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30
	1100 MM DIA.	Per KM/M	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30
	1200 MM DIA.	Per KM/M	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	1300 MM DIA.	Per KM/M	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	1400 MM DIA.	Per KM/M	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	1500 MM DIA.	Per KM/M	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	1600 MM DIA.	Per KM/M	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	1700 MM DIA.	Per KM/M	15.02	15.02	15.02	15.02	15.02	15.02	15.02	15.02	15.02
	1800 MM DIA.	Per KM/M	15.02	15.02	15.02	15.02	15.02	15.02	15.02	15.02	15.02
	1900 MM DIA.	Per KM/M	15.02	15.02	15.02	15.02	15.02	15.02	15.02	15.02	15.02
	2000 MM DIA.	Per KM/M	15.96	15.96	15.96	15.96	15.96	15.96	15.96	15.96	15.96

Note:

a) The above rates are Excluding GST. At present prevailing GST rate is @ 18.00% on supply of PCC pipes. Transportation charges extra.

b) The above rates are considering

(A) Landed price of HT Wire (Basic + Freight) @ Rs.60,500/- per MT (4 mm**).**

(B) Landed price of Cement (Basic + Freight) @ Rs.3,672/- per MT and

(C) Landed price of HR Plates (Basic + Freight) @ Rs.59,000/- per MT (1.60 mm) and Rs.57,000/- per MT (2.00 - 4.00 mm).

c) The above prices for PCCP pipes are subject to Price Variation clause. Revised rate = (R1 + R2 + R3), where R1 = Variation (increase / decrease) in cost (Rs.per Mtr) due to change in the cost of HT Wire which is = (H2 - H1) / 1000 x Wh. R2 = Variation (increase / decrease) in cost (Rs.per Mtr) due to change in the cost of HR Plate / COil which is = (R2 - R1) / 1000 x Wr. R3 = Variation (increase / decrease) in cost (Rs.per Mtr) due to change in the cost of Cement which is = (C2 - C1) / 1000 x Wc. ****** H1 = Rs.60,500/- per MT (4 mm) / H2 = Cost of HT Wire at the time of preparation of estimate, R1 = Rs.59,000/- per MT (1.60 mm) & Rs.57,000/- per MT (2.00 - 4.00 mm) / R2 = Cost of HR Coils / Plates at the time of preparation of estimate, **C1 = Rs.3,672/- per MT**, C2 = Cost of Cement at the time of preparation of estimate, Wh = Weight of HT wire required (Kg per Mtr), Wr = Weight of HR Plate / Coils required (Kg per Mtr) & Wc = Weight of Cement required (Kg per Mtr).

13. S o R FOR BAR WRAPPED STEEL CYLINDRICAL (BWSC) PIPES FOR THE YEAR 2021-22

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/cm^2	Code	14 Kg/cm^2	Code	16 Kg/cm^2	Code	18 Kg/cm^2	Code	20 Kg/cm^2	Code	22 Kg/cm^2	Code	24 Kg/cm^2	Code	26 Kg/cm^2	Code	28 Kg/cm^2	Code	30 Kg/cm^2
	250 MM DIA.	Meter	MAT-06754	2892	MAT-06767	2892	MAT-06780	2892	MAT-06793	2892	MAT-06806	2892	MAT-06819	2892	MAT-06832	3204	MAT-06845	3308	MAT-06858	3346	MAT-06871	3513
	300 MM DIA.	Meter	MAT-06755	3222	MAT-06768	3222	MAT-06781	3222	MAT-06794	3222	MAT-06807	3222	MAT-06820	3378	MAT-06833	3828	MAT-06846	3973	MAT-06859	4056	MAT-06872	4264
	350 MM DIA.	Meter	MAT-06756	3917	MAT-06769	3917	MAT-06782	3917	MAT-06795	3982	MAT-06808	4175	MAT-06821	4384	MAT-06834	4578	MAT-06847	4771	MAT-06860	4979	MAT-06873	5178
	400 MM DIA.	Meter	MAT-06757	4314	MAT-06770	4314	MAT-06783	4405	MAT-06796	4666	MAT-06809	4911	MAT-06822	5168	MAT-06835	5414	MAT-06848	5672	MAT-06861	5924	MAT-06874	6159
	450 MM DIA.	Meter	MAT-06758	4827	MAT-06771	4865	MAT-06784	5201	MAT-06797	5509	MAT-06810	5845	MAT-06823	6098	MAT-06836	6397	MAT-06849	6644	MAT-06862	6923	MAT-06875	7468
	500 MM DIA.	Meter	MAT-06759	5232	MAT-06772	5595	MAT-06785	5983	MAT-06798	6396	MAT-06811	6760	MAT-06824	7182	MAT-06837	7543	MAT-06850	7857	MAT-06863	8376	MAT-06876	8892
	600 MM DIA.	Meter	MAT-06760	6475	MAT-06773	6929	MAT-06786	7498	MAT-06799	8040	MAT-06812	8621	MAT-06825	9213	MAT-06838	9866	MAT-06851	10533	MAT-06864	11170	MAT-06877	11710
	700 MM DIA.	Meter	MAT-06761	7866	MAT-06774	8670	MAT-06787	9407	MAT-06800	10168	MAT-06813	11022	MAT-06826	11850	MAT-06839	12625	MAT-06852	13761	MAT-06865	14473	MAT-06878	15123
	800 MM DIA.	Meter	MAT-06762	9436	MAT-06775	10533	MAT-06788	11501	MAT-06801	12533	MAT-06814	13725	MAT-06827	14737	MAT-06840	16044	MAT-06853	17035	MAT-06866	18003	MAT-06879	19059
	900 MM DIA.	Meter	MAT-06763	11411	MAT-06776	12690	MAT-06789	13890	MAT-06802	15206	MAT-06815	16510	MAT-06828	18095	MAT-06841	19358	MAT-06854	20676	MAT-06867	22171	MAT-06880	23699

	1000 MM DIA.	Meter	MAT-06764	13485	MAT-06777	15082	MAT-06790	16818	MAT-06803	18417	MAT-06816	19920	MAT-06829	21429	MAT-06842	23019	MAT-06855	24815	MAT-06868	26988	MAT-06881	28482
	1100 MM DIA.	Meter	MAT-06765	17762	MAT-06778	18149	MAT-06791	19929	MAT-06804	21914	MAT-06817	23835	MAT-06830	25717	MAT-06843	28136	MAT-06856	29810	MAT-06869	32126	MAT-06882	34193
	1200 MM DIA.	Meter	MAT-06766	19378	MAT-06779	20730	MAT-06792	22884	MAT-06805	25136	MAT-06818	27416	MAT-06831	29736	MAT-06844	32536	MAT-06857	35279	MAT-06870	37792	MAT-06883	39900
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	391	MAT-06897	391	MAT-06910	391	MAT-06923	391	MAT-06936	391	MAT-06949	391	MAT-06962	391	MAT-06975	391	MAT-06988	391	MAT-07001	391
	300 MM DIA.	Meter	MAT-06885	460	MAT-06898	460	MAT-06911	460	MAT-06924	460	MAT-06937	460	MAT-06950	460	MAT-06963	460	MAT-06976	460	MAT-06989	460	MAT-07002	460
	350 MM DIA.	Meter	MAT-06886	543	MAT-06899	543	MAT-06912	543	MAT-06925	543	MAT-06938	543	MAT-06951	543	MAT-06964	543	MAT-06977	543	MAT-06990	543	MAT-07003	543
	400 MM DIA.	Meter	MAT-06887	608	MAT-06900	608	MAT-06913	608	MAT-06926	608	MAT-06939	608	MAT-06952	608	MAT-06965	608	MAT-06978	608	MAT-06991	608	MAT-07004	608
	450 MM DIA.	Meter	MAT-06888	608	MAT-06901	608	MAT-06914	608	MAT-06927	608	MAT-06940	608	MAT-06953	608	MAT-06966	608	MAT-06979	608	MAT-06992	608	MAT-07005	608
	500 MM DIA.	Meter	MAT-06889	761	MAT-06902	761	MAT-06915	761	MAT-06928	761	MAT-06941	761	MAT-06954	761	MAT-06967	761	MAT-06980	761	MAT-06993	761	MAT-07006	761
	600 MM DIA.	Meter	MAT-06890	936	MAT-06903	936	MAT-06916	936	MAT-06929	936	MAT-06942	936	MAT-06955	936	MAT-06968	936	MAT-06981	936	MAT-06994	936	MAT-07007	936
	700 MM DIA.	Meter	MAT-06891	1090	MAT-06904	1090	MAT-06917	1090	MAT-06930	1090	MAT-06943	1090	MAT-06956	1090	MAT-06969	1090	MAT-06982	1090	MAT-06995	1090	MAT-07008	1090
	800 MM DIA.	Meter	MAT-06892	1240	MAT-06905	1240	MAT-06918	1240	MAT-06931	1240	MAT-06944	1240	MAT-06957	1240	MAT-06970	1240	MAT-06983	1240	MAT-06996	1240	MAT-07009	1240

	900 MM DIA.	Meter	MAT-06893	1457	MAT-06906	1457	MAT-06919	1457	MAT-06932	1457	MAT-06945	1457	MAT-06958	1457	MAT-06971	1457	MAT-06984	1457	MAT-06997	1457	MAT-07010	1457
	1000 MM DIA.	Meter	MAT-06894	1611	MAT-06907	1611	MAT-06920	1611	MAT-06933	1611	MAT-06946	1611	MAT-06959	1611	MAT-06972	1611	MAT-06985	1611	MAT-06998	1611	MAT-07011	1611
	1100 MM DIA.	Meter	MAT-06895	1893	MAT-06908	1893	MAT-06921	1893	MAT-06934	1893	MAT-06947	1893	MAT-06960	1893	MAT-06973	1893	MAT-06986	1893	MAT-06999	1893	MAT-07012	1893
	1200 MM DIA.	Meter	MAT-06896	2119	MAT-06909	2119	MAT-06922	2119	MAT-06935	2119	MAT-06948	2119	MAT-06961	2119	MAT-06974	2119	MAT-06987	2119	MAT-07000	2119	MAT-07013	2119
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	0.83		0.83		0.83		0.83		0.83		0.83		0.83		0.83		0.83	
	300 MM DIA.	Per KM/M	0.83		0.83		0.83		0.83		0.83		0.83		0.83		0.83		0.83	
	350 MM DIA.	Per KM/M	1.10		1.10		1.10		1.10		1.10		1.10		1.10		1.10		1.10	
	400 MM DIA.	Per KM/M	1.38		1.38		1.38		1.38		1.38		1.38		1.38		1.38		1.38	
	450 MM DIA.	Per KM/M	1.81		1.81		1.81		1.81		1.81		1.81		1.81		1.81		1.81	
	500 MM DIA.	Per KM/M	2.22		2.22		2.22		2.22		2.22		2.22		2.22		2.22		2.22	
	600 MM DIA.	Per KM/M	2.35		2.35		2.35		2.35		2.35		2.35		2.35		2.35		2.35	
	700 MM DIA.	Per KM/M	2.64		2.64		2.64		2.64		2.64		2.64		2.64		2.64		2.64	
	800 MM DIA.	Per KM/M	3.47		3.47		3.47		3.47		3.47		3.47		3.47		3.47		3.47	
	900 MM DIA.	Per KM/M	3.73		3.73		3.73		3.73		3.73		3.73		3.73		3.73		3.73	
	1000 MM DIA.	Per KM/M	4.28		4.28		4.28		4.28		4.28		4.28		4.28		4.28		4.28	
	1100 MM DIA.	Per KM/M	9.56		9.56		9.56		9.56		9.56		9.56		9.56		9.56		9.56	
	1200 MM DIA.	Per KM/M	13.37		13.37		13.37		13.37		13.37		13.37		13.37		13.37		13.37	

Note:

a) The above rates are Excluding GST. Transportation charges extra.

b) The above rates are considering

(A) Landed price of HR Plates (Basic + Freight) @ Rs.59,000/- per MT (1.60 mm) & Rs.57,000/- per MT (2.00-4.00 mm).

(B) Landed price of Cement (Basic + Freight) @ Rs.3672/- per MT and

(C) Landed price of MS Wire Rods at Hyderabad (Basic + Freight) @ Rs.49500/- per MT. All above rates of raw materials are excluding GST.

c) The above prices for BWSC pipes are subject to Price Variation clause. Revised rate = (R1 + R2 + R3), where R1 = Variation (increase / decrease) in cost (Rs.per Mtr) due to change in the cost of HR Plate / Coil which is = (H2 - H1) / 1000 x Wh. R2 = Variation (increase / decrease) in cost (Rs.per Mtr) due to change in the cost of Wire Rods which is = (W2 - W1) / 1000 x Ww. R3 = Variation (increase / decrease) in cost (Rs.per Mtr) due to change in the cost of Cement which is = (C2 - C1) / 1000 x Wc. ****** H1 = Rs.59,000/- per MT (1.60 mm) & Rs.57,000/- per MT (2.00 -4.00 mm) / H2 = Cost of HR Plate / Coil at the time of preparation of estimate, W1 = Rs.49500/- per MT / W2 = Cost of Wire Rods at the time of preparation of estimate**, C1 = Rs.3672/- per MT**, C2 = Cost of Cement at the time of preparation of estimate, Wh = Weight of HR Plate / Coil required (Kg per Mtr), Ww = Weight of Wire Rods required (Kg per Mtr) & Wc = Weight of Cement required (Kg per Mtr).

d) The duties and taxes as applicable may be added as per rules at the time of preparation of estimates.

14. S o R FOR M.S. PIPES FOR THE YEAR 2021-22

Sl.No.	Description	Unit	Thickness 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	**8573**
	600 mm dia.	Meter	8.00	MAT-07015	**10174**
	700 mm dia.	Meter	8.00	MAT-07016	**11853**
	700 mm dia.	Meter	10.00	MAT-07017	**15114**
	800 mm dia.	Meter	8.00	MAT-07018	**13591**
	800 mm dia.	Meter	10.00	MAT-07019	**16144**
	800 mm dia.	Meter	12.00	MAT-07020	**19491**
	900 mm dia.	Meter	8.00	MAT-07021	**15163**
	900 mm dia.	Meter	10.00	MAT-07022	**18028**
	900 mm dia.	Meter	12.00	MAT-07023	**20900**
	1000 mm dia.	Meter	8.00	MAT-07024	**17012**
	1000 mm dia.	Meter	10.00	MAT-07025	**20182**
	1000 mm dia.	Meter	12.00	MAT-07026	**23272**
	1000 mm dia.	Meter	14.00	MAT-07027	**27278**
	1100 mm dia.	Meter	8.00	MAT-07028	**19587**
	1100 mm dia.	Meter	10.00	MAT-07029	**23549**
	1100 mm dia.	Meter	12.00	MAT-07030	**27038**
	1100 mm dia.	Meter	14.00	MAT-07031	**31683**
	1100 mm dia.	Meter	16.00	MAT-07032	**36344**
	1200 mm dia.	Meter	8.00	MAT-07033	**21881**
	1200 mm dia.	Meter	10.00	MAT-07034	**26450**

	1200 mm dia.	Meter	12.00	MAT-07035	**30271**
	1200 mm dia.	Meter	14.00	MAT-07036	**34091**
	1200 mm dia.	Meter	16.00	MAT-07037	**39101**
	1200 mm dia.	Meter	18.00	MAT-07038	**44126**
	1300 mm dia.	Meter	8.00	MAT-07039	**24211**
	1300 mm dia.	Meter	10.00	MAT-07040	**28532**
	1300 mm dia.	Meter	12.00	MAT-07041	**32958**
	1300 mm dia.	Meter	14.00	MAT-07042	**37082**
	1300 MM DIA.	Meter	16.00	MAT-07043	**41221**
	1300 MM DIA.	Meter	18.00	MAT-07044	**46518**
	1300 MM DIA.	Meter	20.00	MAT-07045	**51830**
	1400 MM DIA.	Meter	8.00	MAT-07046	**26000**
	1400 MM DIA.	Meter	10.00	MAT-07047	**30639**
	1400 MM DIA.	Meter	12.00	MAT-07048	**35146**
	1400 MM DIA.	Meter	14.00	MAT-07049	**39583**
	1400 MM DIA.	Meter	16.00	MAT-07050	**44030**
	1400 MM DIA.	Meter	18.00	MAT-07051	**49684**
	1400 MM DIA.	Meter	20.00	MAT-07052	**55350**
	1400 MM DIA.	Meter	22.00	MAT-07053	**61033**
	1500 MM DIA.	Meter	8.00	MAT-07054	**27800**
	1500 MM DIA.	Meter	10.00	MAT-07055	**32763**
	1500 MM DIA.	Meter	12.00	MAT-07056	**37614**
	1500 MM DIA.	Meter	14.00	MAT-07057	**42356**
	1500 MM DIA.	Meter	16.00	MAT-07058	**47116**
	1500 MM DIA.	Meter	18.00	MAT-07059	**51880**
	1500 MM DIA.	Meter	20.00	MAT-07060	**57795**
	1500 MM DIA.	Meter	22.00	MAT-07061	**63726**
	1500 MM DIA.	Meter	24.00	MAT-07062	**69671**
	1600 MM DIA.	Meter	8.00	MAT-07063	**29638**
	1600 MM DIA.	Meter	10.00	MAT-07064	**34761**
	1600 MM DIA.	Meter	12.00	MAT-07065	**39802**
	1600 MM DIA.	Meter	14.00	MAT-07066	**44856**

	1600 MM DIA.	Meter	16.00	MAT-07067	**49922**
	1600 MM DIA.	Meter	18.00	MAT-07068	**54999**
	1600 MM DIA.	Meter	20.00	MAT-07069	**61265**
	1600 MM DIA.	Meter	22.00	MAT-07070	**67547**
	1600 MM DIA.	Meter	24.00	MAT-07071	**73843**
	1600 MM DIA.	Meter	26.00	MAT-07072	**80152**
	1700 MM DIA.	Meter	8.00	MAT-07073	**31355**
	1700 MM DIA.	Meter	10.00	MAT-07074	**36916**
	1700 MM DIA.	Meter	12.00	MAT-07075	**42266**
	1700 MM DIA.	Meter	14.00	MAT-07076	**47631**
	1700 MM DIA.	Meter	16.00	MAT-07077	**53003**
	1700 MM DIA.	Meter	18.00	MAT-07078	**58391**
	1700 MM DIA.	Meter	20.00	MAT-07079	**65039**
	1700 MM DIA.	Meter	22.00	MAT-07080	**71706**
	1700 MM DIA.	Meter	24.00	MAT-07081	**78380**
	1700 MM DIA.	Meter	26.00	MAT-07082	**85078**
	1700 MM DIA.	Meter	28.00	MAT-07083	**91786**
	1800 MM DIA.	Meter	8.00	MAT-07084	**33219**
	1800 MM DIA.	Meter	10.00	MAT-07085	**39072**
	1800 MM DIA.	Meter	12.00	MAT-07086	**44732**
	1800 MM DIA.	Meter	14.00	MAT-07087	**50408**
	1800 MM DIA.	Meter	16.00	MAT-07088	**56086**
	1800 MM DIA.	Meter	18.00	MAT-07089	**61787**
	1800 MM DIA.	Meter	20.00	MAT-07090	**67495**
	1800 MM DIA.	Meter	22.00	MAT-07091	**74407**
	1800 MM DIA.	Meter	24.00	MAT-07092	**81335**
	1800 MM DIA.	Meter	26.00	MAT-07093	**88274**
	1800 MM DIA.	Meter	28.00	MAT-07094	**95231**
	1800 MM DIA.	Meter	30.00	MAT-07095	**102200**
	1900 MM DIA.	Meter	8.00	MAT-07096	**33965**
	1900 MM DIA.	Meter	10.00	MAT-07097	**40952**
	1900 MM DIA.	Meter	12.00	MAT-07098	**46918**
	1900 MM DIA.	Meter	14.00	MAT-07099	**52900**

	1900 MM DIA.	Meter	16.00	MAT-07100	**58893**
	1900 MM DIA.	Meter	18.00	MAT-07101	**64904**
	1900 MM DIA.	Meter	20.00	MAT-07102	**70918**
	1900 MM DIA.	Meter	22.00	MAT-07103	**78176**
	1900 MM DIA.	Meter	24.00	MAT-07104	**85449**
	1900 MM DIA.	Meter	26.00	MAT-07105	**92740**
	1900 MM DIA.	Meter	28.00	MAT-07106	**100042**
	1900 MM DIA.	Meter	30.00	MAT-07107	**107362**
	1900 MM DIA.	Meter	32.00	MAT-07108	**114692**
	2000 MM DIA.	Meter	8.00	MAT-07109	**35526**
	2000 MM DIA.	Meter	10.00	MAT-07110	**42835**
	2000 MM DIA.	Meter	12.00	MAT-07111	**49110**
	2000 MM DIA.	Meter	14.00	MAT-07112	**55402**
	2000 MM DIA.	Meter	16.00	MAT-07113	**61705**
	2000 MM DIA.	Meter	18.00	MAT-07114	**68023**
	2000 MM DIA.	Meter	20.00	MAT-07115	**74345**
	2000 MM DIA.	Meter	22.00	MAT-07116	**80644**
	2000 MM DIA.	Meter	24.00	MAT-07117	**88144**
	2000 MM DIA.	Meter	26.00	MAT-07118	**95657**
	2000 MM DIA.	Meter	28.00	MAT-07119	**103188**
	2000 MM DIA.	Meter	30.00	MAT-07120	**110729**
	2000 MM DIA.	Meter	32.00	MAT-07121	**118287**
	2000 MM DIA.	Meter	34.00	MAT-07122	**125858**
	2100 MM DIA.	Meter	8.00	MAT-07123	**37316**
	2100 MM DIA.	Meter	10.00	MAT-07124	**44989**
	2100 MM DIA.	Meter	12.00	MAT-07125	**51576**
	2100 MM DIA.	Meter	14.00	MAT-07126	**58162**
	2100 MM DIA.	Meter	16.00	MAT-07127	**64786**
	2100 MM DIA.	Meter	18.00	MAT-07128	**71410**
	2100 MM DIA.	Meter	20.00	MAT-07129	**78047**
	2100 MM DIA.	Meter	22.00	MAT-07130	**84699**
	2100 MM DIA.	Meter	24.00	MAT-07131	**92573**
	2100 MM DIA.	Meter	26.00	MAT-07132	**100460**
	2100 MM DIA.	Meter	28.00	MAT-07133	**108362**

	2100 MM DIA.	Meter	30.00	MAT-07134	**116278**
	2100 MM DIA.	Meter	32.00	MAT-07135	**124210**
	2100 MM DIA.	Meter	34.00	MAT-07136	**132155**
	2100 MM DIA.	Meter	36.00	MAT-07137	**140112**
	2200 MM DIA.	Meter	8.00	MAT-07138	**38874**
	2200 MM DIA.	Meter	10.00	MAT-07139	**46870**
	2200 MM DIA.	Meter	12.00	MAT-07140	**53770**
	2200 MM DIA.	Meter	14.00	MAT-07141	**60674**
	2200 MM DIA.	Meter	16.00	MAT-07142	**67597**
	2200 MM DIA.	Meter	18.00	MAT-07143	**74526**
	2200 MM DIA.	Meter	20.00	MAT-07144	**81474**
	2200 MM DIA.	Meter	22.00	MAT-07145	**88436**
	2200 MM DIA.	Meter	26.00	MAT-07146	**104884**
	2200 MM DIA.	Meter	28.00	MAT-07147	**113129**
	2200 MM DIA.	Meter	30.00	MAT-07148	**121386**
	2200 MM DIA.	Meter	32.00	MAT-07149	**129661**
	2200 MM DIA.	Meter	34.00	MAT-07150	**137952**
	2200 MM DIA.	Meter	36.00	MAT-07151	**146254**
	2200 MM DIA.	Meter	38.00	MAT-07152	**154572**
	2300 MM DIA.	Meter	10.00	MAT-07153	**44686**
	2300 MM DIA.	Meter	12.00	MAT-07154	**56231**
	2300 MM DIA.	Meter	16.00	MAT-07155	**69503**
	2300 MM DIA.	Meter	18.00	MAT-07156	**77919**
	2300 MM DIA.	Meter	20.00	MAT-07157	**85177**
	2300 MM DIA.	Meter	22.00	MAT-07158	**92441**
	2300 MM DIA.	Meter	26.00	MAT-07159	**107110**
	2300 MM DIA.	Meter	28.00	MAT-07160	**115988**
	2300 MM DIA.	Meter	30.00	MAT-07161	**124926**
	2300 MM DIA.	Meter	32.00	MAT-07162	**134706**
	2300 MM DIA.	Meter	34.00	MAT-07163	**142720**
	2300 MM DIA.	Meter	36.00	MAT-07164	**151670**
	2300 MM DIA.	Meter	38.00	MAT-07165	**160678**
	2300 MM DIA.	Meter	40.00	MAT-07166	**169643**

	2400MM DIA.	Meter	10.00	MAT-07167	**50905**
	2400 MM DIA.	Meter	12.00	MAT-07168	**58420**
	2400 MM DIA.	Meter	14.00	MAT-07169	**66878**
	2400 MM DIA.	Meter	16.00	MAT-07170	**74421**
	2400 MM DIA.	Meter	18.00	MAT-07171	**81968**
	2400 MM DIA.	Meter	20.00	MAT-07172	**89539**
	2400 MM DIA.	Meter	22.00	MAT-07173	**97960**
	2400 MM DIA.	Meter	26.00	MAT-07174	**107663**
	2400 MM DIA.	Meter	28.00	MAT-07175	**115643**
	2400 MM DIA.	Meter	30.00	MAT-07176	**123639**
	2400 MM DIA.	Meter	32.00	MAT-07177	**131646**
	2400 MM DIA.	Meter	34.00	MAT-07178	**139664**
	2400 MM DIA.	Meter	36.00	MAT-07179	**147700**
	2400 MM DIA.	Meter	38.00	MAT-07180	**155745**
	2400 MM DIA.	Meter	40.00	MAT-07181	**157539**
	2400 MM DIA.	Meter	42.00	MAT-07182	**165604**
	2500 MM DIA.	Meter	10.00	MAT-07183	**53062**
	2500 MM DIA.	Meter	14.00	MAT-07184	**68722**
	2500 MM DIA.	Meter	16.00	MAT-07185	**76570**
	2500 MM DIA.	Meter	18.00	MAT-07186	**84433**
	2500 MM DIA.	Meter	20.00	MAT-07187	**92305**
	2500 MM DIA.	Meter	22.00	MAT-07188	**100192**
	2500 MM DIA.	Meter	28.00	MAT-07189	**128125**
	2500 MM DIA.	Meter	30.00	MAT-07190	**137468**
	2500 MM DIA.	Meter	34.00	MAT-07191	**151990**
	2500 MM DIA.	Meter	36.00	MAT-07192	**161911**
	2500 MM DIA.	Meter	38.00	MAT-07193	**171889**
	2500 MM DIA.	Meter	40.00	MAT-07194	**181882**
	2500 MM DIA.	Meter	42.00	MAT-07195	**191922**
	2500 MM DIA.	Meter	44.00	MAT-07196	**201914**
	2500 MM DIA.	Meter	46.00	MAT-07197	**211964**
	2600 MM DIA.	Meter	12.00	MAT-07198	**57546**
	2600 MM DIA.	Meter	14.00	MAT-07199	**71221**
	2600 MM DIA.	Meter	16.00	MAT-07200	**79381**

	2600 MM DIA.	Meter	18.00	MAT-07201	**87551**
	2600 MM DIA.	Meter	20.00	MAT-07202	**95735**
	2600 MM DIA.	Meter	22.00	MAT-07203	**103928**
	2600 MM DIA.	Meter	32.00	MAT-07204	**152277**
	2600 MM DIA.	Meter	34.00	MAT-07205	**161992**
	2600 MM DIA.	Meter	36.00	MAT-07206	**171717**
	2600 MM DIA.	Meter	38.00	MAT-07207	**181459**
	2600 MM DIA.	Meter	40.00	MAT-07208	**191216**
	2600 MM DIA.	Meter	42.00	MAT-07209	**200987**
	2600 MM DIA.	Meter	44.00	MAT-07210	**210774**
	2600 MM DIA.	Meter	46.00	MAT-07211	**220571**
	2600 MM DIA.	Meter	48.00	MAT-07212	**230387**
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	**716**
	500 MM DIA.	Meter		MAT-07214	**891**
	600 MM DIA.	Meter		MAT-07215	**1096**
	700 MM DIA.	Meter		MAT-07216	**1273**
	800 MM DIA.	Meter		MAT-07217	**1452**
	900 MM DIA.	Meter		MAT-07218	**1707**
	1000 MM DIA.	Meter		MAT-07219	**1885**
	1100 MM DIA.	Meter		MAT-07220	**2218**
	1200 MM DIA.	Meter		MAT-07221	**2484**
	1300 MM DIA.	Meter		MAT-07222	**2855**
	1400 MM DIA.	Meter		MAT-07223	**3287**
	1500 MM DIA.	Meter		MAT-07224	**3717**
	1600 MM DIA.	Meter		MAT-07225	**3918**
	1700 MM DIA.	Meter		MAT-07226	**4143**
	1800 MM DIA.	Meter		MAT-07227	**4686**
	1900 MM DIA.	Meter		MAT-07228	**5461**
	2000 MM DIA.	Meter		MAT-07229	**6858**
	2100 MM DIA.	Meter		MAT-07230	**7846**
	2200 MM DIA.	Meter		MAT-07231	**8813**
	2300 MM DIA.	Meter		MAT-07232	**10751**
	2400 MM DIA.	Meter		MAT-07233	**13147**

	2500 MM DIA.	Meter		MAT-07234	**15269**
	2600 MM DIA.	Meter		MAT-07235	**17189**

The above rates of MS Spiral pipes are based on the following raw materials cost.
MS Plates = Rs.55,000/- 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 $+R_1$
R1= (M2-M1)/1000 x Wm
M_1= Rs 55,000/-
M_2= 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

15. S.S. RATES FOR H.D.P.E PIPES FOR THE YEAR 2021-22. (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	38
	OD 50 mm	MAT-07237	56
	OD 63 mm	MAT-07238	77
	OD 75 mm	MAT-07239	106
	OD 90 mm	MAT-07240	151
	OD 110 mm	MAT-07241	226
	OD 125 mm	MAT-07242	289
	OD 140 mm	MAT-07243	361
	OD 160 mm	MAT-07244	472
	OD 180 mm	MAT-07245	597
	OD 200 mm	MAT-07246	729
	OD 225 mm	MAT-07247	924
	OD 250 mm	MAT-07248	1145
	OD 280 mm	MAT-07249	1426
	OD 315 mm	MAT-07250	1812
	OD 355 mm	MAT-07251	2361
	OD 400 mm	MAT-07252	3044
	OD 450 mm	MAT-07253	3887
	OD 500 mm	MAT-07254	4774
	OD 560 mm	MAT-07255	5912
	OD 630 mm	MAT-07256	7478
	OD 710 mm	MAT-07257	9502
	OD 800 mm	MAT-07258	12026
	OD 900 mm	MAT-07259	15238
	OD 1000 mm	MAT-07260	18767

Note: - Reliance Industries Resin cost adopted for the above rates are
For PE - 80 grade Rs.109039/- 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 x M x 0.95(for increase in raw material cost)
P2 = P1 - (A1 - A2) /1000 x M x 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 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 2021-22. (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	
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**	**Code**	**Rate per Meter**	**Code**	**Rate per Meter**	**Code**	**Rate per Meter**	**Code**	**Rate per Meter**
	OD 20 mm									MAT-07355	27
	OD 25 mm									MAT-07356	38
	OD 32 mm					MAT-07309	42	MAT-07333	48	MAT-07357	62
	OD 40 mm			MAT-07285	54	MAT-07310	65	MAT-07334	73	MAT-07358	94
	OD 50 mm	MAT-07261	68	MAT-07286	82	MAT-07311	100	MAT-07335	114	MAT-07359	146
	OD 63 mm	MAT-07262	100	MAT-07287	125	MAT-07312	153	MAT-07336	179	MAT-07360	232
	OD 75 mm	MAT-07263	142	MAT-07288	180	MAT-07313	215	MAT-07337	258	MAT-07361	329
	OD 90 mm	MAT-07264	200	MAT-07289	255	MAT-07314	307	MAT-07338	367	MAT-07362	472
	OD 110 mm	MAT-07265	305	MAT-07290	381	MAT-07315	454	MAT-07339	559	MAT-07363	724
	OD 125 mm	MAT-07266	387	MAT-07291	491	MAT-07316	591	MAT-07340	741	MAT-07364	936
	OD 140 mm	MAT-07267	485	MAT-07292	613	MAT-07317	742	MAT-07341	936	MAT-07365	1169
	OD 160 mm	MAT-07268	637	MAT-07293	802	MAT-07318	965	MAT-07342	1210	MAT-07366	1532
	OD 180 mm	MAT-07269	799	MAT-07294	1013	MAT-07319	1221	MAT-07343	1538	MAT-07367	1939
	OD 200 mm	MAT-07270	991	MAT-07295	1252	MAT-07320	1505	MAT-07344	1909	MAT-07368	2384
	OD 225 mm	MAT-07271	1277	MAT-07296	1615	MAT-07321	1949	MAT-07345	2401	MAT-07369	3026
	OD 250 mm	MAT-07272	1572	MAT-07297	1995	MAT-07322	2406	MAT-07346	2980	MAT-07370	3729
	OD 280 mm	MAT-07273	1969	MAT-07298	2499	MAT-07323	3015	MAT-07347	3723	MAT-07371	4674
	OD 315 mm	MAT-07274	2493	MAT-07299	3165	MAT-07324	3814	MAT-07348	4695	MAT-07372	5906
	OD 355 mm	MAT-07275	3129	MAT-07300	3967	MAT-07325	4780	MAT-07349	5778	MAT-07373	7523
	OD 400 mm	MAT-07276	4107	MAT-07301	5200	MAT-07326	6255	MAT-07350	8169	MAT-07374	9711
	OD 450 mm	MAT-07277	5110	MAT-07302	6484	MAT-07327	7817	MAT-07351	10329	MAT-07375	12269
	OD 500 mm	MAT-07278	6314	MAT-07303	7998	MAT-07328	9644	MAT-07352	12761	MAT-07376	15224
	OD 560 mm	MAT-07279	7345	MAT-07304	9302	MAT-07329	11153	MAT-07353	14314		
	OD 630 mm	MAT-07280	9258	MAT-07305	11768	MAT-07330	14128	MAT-07354	16972		
	OD 710 mm	MAT-07281	11790	MAT-07306	14918	MAT-07331	17945				
	OD 800 mm	MAT-07282	14954	MAT-07307	18943	MAT-07332	22859				

	OD 900 mm	MAT-07283	18944	MAT-07308	23979						
	OD 1000 mm	MAT-07284	23370								

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

For PE - 100 grade Rs.110139/-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 x M x 0.95(for increase in raw material cost)
P2 = P1 - (A1 - A2) /1000 x M x 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 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 2021-22

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	110	MAT-07400	138	MAT-07420	166	MAT-07439	197	MAT-07456	236
	OD 75 mm	MAT-07378	155	MAT-07401	199	MAT-07421	236	MAT-07440	281	MAT-07457	335
	OD 90 mm	MAT-07379	220	MAT-07402	282	MAT-07422	335	MAT-07441	399	MAT-07458	484
	OD 110 mm	MAT-07380	318	MAT-07403	402	MAT-07423	480	MAT-07442	576	MAT-07459	688
	OD 125 mm	MAT-07381	407	MAT-07404	519	MAT-07424	622	MAT-07443	736	MAT-07460	890
	OD 140 mm	MAT-07382	509	MAT-07405	647	MAT-07425	779	MAT-07444	928	MAT-07461	1117
	OD 160 mm	MAT-07383	662	MAT-07406	845	MAT-07426	1017	MAT-07445	1183	MAT-07462	1453
	OD 180 mm	MAT-07384	835	MAT-07407	1072	MAT-07427	1286	MAT-07446	1527	MAT-07463	1838
	OD 200 mm	MAT-07385	1034	MAT-07408	1322	MAT-07428	1585	MAT-07447	1892	MAT-07464	2266
	OD 225 mm	MAT-07386	1305	MAT-07409	1666	MAT-07429	2004	MAT-07448	2384	MAT-07465	2871
	OD 250 mm	MAT-07387	1611	MAT-07410	2062	MAT-07430	2473	MAT-07449	2944	MAT-07466	3537
	OD 280 mm	MAT-07388	2013	MAT-07411	2578	MAT-07431	3085	MAT-07450	3701	MAT-07467	4442
	OD 315 mm	MAT-07389	2548	MAT-07412	3265	MAT-07432	3972	MAT-07451	4670	MAT-07468	5616
	OD 355 mm	MAT-07390	3228	MAT-07413	4135	MAT-07433	4975	MAT-07452	5938	MAT-07469	7125
	OD 400 mm	MAT-07391	4265	MAT-07414	5459	MAT-07434	6553	MAT-07453	7813	MAT-07470	9370
	OD 450 mm	MAT-07392	5383	MAT-07415	6905	MAT-07435	8299	MAT-07454	9872		
	OD 500 mm	MAT-07393	6654	MAT-07416	8513	MAT-07436	10235	MAT-07455	12201		
	OD 560 mm	MAT-07394	8320	MAT-07417	10668	MAT-07437	12842				
	OD 630 mm	MAT-07395	10535	MAT-07418	13504	MAT-07438	16224				
	OD 710 mm	MAT-07396	13645	MAT-07419	17482						
	OD 800 mm	MAT-07397	17313								
	OD 900 mm	MAT-07398	21927								
	OD 1000 mm	MAT-07399	27092								

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

For PE - 100 grade Rs.110139/-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 x M x 0.95(for increase in raw material cost)
P2 = P1 - (A1 - A2) /1000 x M x 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 2021-22.

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	77
	OD 63 mm	MAT-07472	98
	OD 75 mm	MAT-07473	117
	OD 90 mm	MAT-07474	164
	OD 110 mm	MAT-07475	226
	OD 125 mm	MAT-07476	407
	OD 140 mm	MAT-07477	381
	OD 160 mm	MAT-07478	533
	OD 180 mm	MAT-07479	811
	OD 200 mm	MAT-07480	1043
	OD 225 mm	MAT-07481	1198
	OD 250 mm	MAT-07482	1403
	OD 280 mm	MAT-07483	1568
	OD 315 mm	MAT-07484	1807
	OD 355 mm	MAT-07485	3778
	OD 400 mm	MAT-07486	5034
	OD 450 mm	MAT-07487	8376
	OD 500 mm	MAT-07488	9322
(b)	MS FLANGES	Code	Rate per Each
	OD 50 mm	MAT-07489	94
	OD 63 mm	MAT-07490	118
	OD 75 mm	MAT-07491	152
	OD 90 mm	MAT-07492	164
	OD 110 mm	MAT-07493	172
	OD 125 mm	MAT-07494	236
	OD 140 mm	MAT-07495	256
	OD 160 mm	MAT-07496	336
	OD 180 mm	MAT-07497	474
	OD 200 mm	MAT-07498	613
	OD 225 mm	MAT-07499	768
	OD 250 mm	MAT-07500	908
	OD 280 mm	MAT-07501	1028
	OD 315 mm	MAT-07502	1211
	OD 355 mm	MAT-07503	2050
	OD 400 mm	MAT-07504	2542
	OD 450 mm	MAT-07505	3319
	OD 500 mm	MAT-07506	3800
(c)	END CAPS	Code	Rate per Each

	OD 50 mm	MAT-07507	57
	OD 63 mm	MAT-07508	67
	OD 75 mm	MAT-07509	84
	OD 90 mm	MAT-07510	112
	OD 110 mm	MAT-07511	128
	OD 125 mm	MAT-07512	178
	OD 140 mm	MAT-07513	208
	OD 160 mm	MAT-07514	317
	OD 180 mm	MAT-07515	515
	OD 200 mm	MAT-07516	563
	OD 225 mm	MAT-07517	586
	OD 250 mm	MAT-07518	834
	OD 280 mm	MAT-07519	854
	OD 315 mm	MAT-07520	1166
	OD 355 mm	MAT-07521	1801
	OD 400 mm	MAT-07522	3145
	OD 450 mm	MAT-07523	5058
	OD 500 mm	MAT-07524	9322
(d)	REDUCERS	Code	Rate per Each
	OD 50 mm x 63 mm	MAT-07525	77
	OD 63 mm x 75 mm	MAT-07526	112
	OD 75 mm x 90 mm	MAT-07527	185
	OD 90 mm x 110 mm	MAT-07528	255
	OD 110 mm x 125 mm	MAT-07529	388
	OD 125 mm x 140 mm	MAT-07530	538
	OD 140 mm x 160 mm	MAT-07531	751
	OD 160 mm x 180 mm	MAT-07532	1038
	OD 180 mm x 200 mm	MAT-07533	1341
	OD 200 mm x 225 mm	MAT-07534	1647
	OD 225 mm x 250 mm	MAT-07535	2245
	OD 250 mm x 280 mm	MAT-07536	3188
	OD 280 mm x 315 mm	MAT-07537	4508
	OD 315 mm x 355 mm	MAT-07538	5171
	OD 355 mm x 400 mm	MAT-07539	7295
	OD 400 mm x 450 mm	MAT-07540	7568
	OD 450 mm x 500 mm	MAT-07541	9703

(e)	TEES	Code	Rate per Each
	OD 50 mm	MAT-07542	108
	OD 63 mm	MAT-07543	171
	OD 75 mm	MAT-07544	208
	OD 90 mm	MAT-07545	364

	OD 110 mm	MAT-07546	431
	OD 125 mm	MAT-07547	649
	OD 140 mm	MAT-07548	895
	OD 160 mm	MAT-07549	1542
	OD 180 mm	MAT-07550	2090
	OD 200 mm	MAT-07551	2879
	OD 225 mm	MAT-07552	4087
	OD 250 mm	MAT-07553	5596
	OD 280 mm	MAT-07554	7837
	OD 315 mm	MAT-07555	11167
	OD 355 mm	MAT-07556	15925
	OD 400 mm	MAT-07557	23325
	OD 450 mm	MAT-07558	33132
	OD 500 mm	MAT-07559	45502
(f)	BENDS	Code	Rate per Each
	OD 50 mm	MAT-07560	67
	OD 63 mm	MAT-07561	151
	OD 75 mm	MAT-07562	196
	OD 90 mm	MAT-07563	334
	OD 110 mm	MAT-07564	442
	OD 125 mm	MAT-07565	653
	OD 140 mm	MAT-07566	859
	OD 160 mm	MAT-07567	1282
	OD 180 mm	MAT-07568	1841
	OD 200 mm	MAT-07569	2492
	OD 225 mm	MAT-07570	3538
	OD 250 mm	MAT-07571	4848
	OD 280 mm	MAT-07572	6989
	OD 315 mm	MAT-07573	9667
	OD 355 mm	MAT-07574	13400
	OD 400 mm	MAT-07575	20214
	OD 450 mm	MAT-07576	29716
	OD 500 mm	MAT-07577	40287

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 all taxes (central & state), inspection charges, transportation up to site, transit insurance, loading, unloading, stacking, providing and fixing etc. Complete as specified and directed by the Departmental Engineers.		
	SIZE	Code	Rate Each
	(Main pipe outer diameter in mm & Tapping size in Inches)		
	63x1/2”	MAT-07578	967
	63 x3/4”	MAT-07579	967
	63 x1”	MAT-07580	967
	63 x1/2”	MAT-07581	967
	75 x1/2”	MAT-07582	967
	75 x3/4”	MAT-07583	967
	75 x1	MAT-07584	967
	90 x1/2”	MAT-07585	967
	90 x3/4”	MAT-07586	967
	90 x1”	MAT-07587	967
	90 x 1 1/4”	MAT-07588	1254
	90 x 1 1/2”	MAT-07589	1254
	90 x2”	MAT-07590	1254
	110x1/2”	MAT-07591	967
	110 x3/4”	MAT-07592	967
	110 x1”	MAT-07593	967
	110 x 1 1/4”	MAT-07594	1254
	110x1 1/2”	MAT-07595	1254
	110x2”	MAT-07596	1254
	160 x1/2”	MAT-07597	967
	160 x3/4”	MAT-07598	967
	160 x1”	MAT-07599	967
	160 x 1 1/4”	MAT-07600	1371
	160 x 1 1/2”	MAT-07601	1371
	160 x 2”	MAT-07602	1371
	200 x 1/2”	MAT-07603	1371
	200 x 3/4”	MAT-07604	1371
	200 x 1”	MAT-07605	1371

	200 x 1 1/4”	MAT-07606	1973
	200 x 2”	MAT-07607	1973
	250 x 1/2”	MAT-07608	1390
	250 x3/4”	MAT-07609	1390
	250 x1”	MAT-07610	1390
	250 x 1 1/4”	MAT-07611	2009
	250 x1 1/2”	MAT-07612	2009
	250 x 2”	MAT-07613	2009
	315 x 1/2”	MAT-07614	1655
	315 x3/4”	MAT-07615	1655
	315x1”	MAT-07616	1655
	315x1 1/4”	MAT-07617	2248
	315x1 1/2”	MAT-07618	2248
	315x2”	MAT-07619	2248

Note: For Item No.18(II).

(A) The above rates are including taxes of 18% GST. The same may be deducted for obtaining basic rates.

(B) The rates for estimate purpose may be compared with market rates by quotations and may be adopted by considering which ever is less.

19. S o R FOR Double Wall Corrugated (DWC) Pipes FOR THE YEAR 2021-22

Sl.No.	Description	Unit	Code	SoR RATES 2021-22
1	2	3	4	5
I	Manufacture, supply, & delivery of (DWC) structured wall polyethylene/polypropylene piping system with non smooth external annular corrugated and smooth internal surface (Double Wall) for non pressure 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	180
	135		MAT-07621	270
	150		MAT-07622	320
	170		MAT-07623	384
	200		MAT-07624	529
	250		MAT-07625	825
	300		MAT-07626	1099
	400		MAT-07627	1988
	500		MAT-07628	2898
	600		MAT-07629	4996
	800		MAT-07630	8284
	1000		MAT-07631	13490

Sl.No.	Description	Unit	Code	SoR RATES 2021-22
1	2	3	4	5
II	Laying of Alcorr or similar type of Class 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			31
	135			48
	150			57
	170			68
	200			94
	250			147
	300			195
	400			352
	500			513
	600			885
	800			1467

III	Manufacture, supply, & delivery of fittings & accessories compatible with Alcorr (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 any where 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 2021-22

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 (3rd 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	22
	25					MAT-07665	33
	32					MAT-07666	50
	40			MAT-07647	47	MAT-07667	77
	50			MAT-07648	70	MAT-07668	119
	63	MAT-07632	77	MAT-07649	112	MAT-07669	167
	75	MAT-07633	111	MAT-07650	153	MAT-07670	242
	90	MAT-07634	154	MAT-07651	221	MAT-07671	343
	110	MAT-07635	223	MAT-07652	320	MAT-07672	514
	125	MAT-07636	292	MAT-07653	412	MAT-07673	668
	140	MAT-07637	364	MAT-07654	526	MAT-07674	829
	160	MAT-07638	478	MAT-07655	679	MAT-07675	1087
	180	MAT-07639	610	MAT-07656	873	MAT-07676	1387
	200	MAT-07640	740	MAT-07657	1068	MAT-07677	1695
	225	MAT-07641	1005	MAT-07658	1453	MAT-07678	2308
	250	MAT-07642	1163	MAT-07659	1749	MAT-07679	2771
	280	MAT-07643	1503	MAT-07660	2207	MAT-07680	3490
	315	MAT-07644	1908	MAT-07661	2801	MAT-07681	4419
	355	MAT-07645	2472	MAT-07662	3590		
	400	MAT-07646	3118	MAT-07663	4567		

Note:

The resin cost adopted for the above rates is Rs.127330/- 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 x M x 0.95 (for increase in raw material cost)

P2 = P1 - (A1 - A2) /1000 x M x 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 2021-22

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) with solvent cement jointing 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	**420**
	OD 200 mm	MAT-07683	**638**
	OD 250mm	MAT-07684	**990**
	OD 315 mm	MAT-07685	**1562**
	Pipe Series (S20)		
	OD 125 mm	MAT-07686	**324**
	OD 160 mm	MAT-07687	**520**
	OD 200 mm	MAT-07688	**789**
	OD 250mm	MAT-07689	**1230**
	OD 315 mm	MAT-07690	**1930**
	Pipe Series (S16.5)		
	OD 110 mm	MAT-07691	**286**
	OD 125 mm	MAT-07692	**386**
	OD 160 mm	MAT-07693	**604**
	OD 200 mm	MAT-07694	**938**
	OD 250mm	MAT-07695	**1455**
	OD 315 mm	MAT-07696	**2296**

Note: The resin cost adopted for the above rates is Rs.127330/- 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 x M x 0.95 (for increase in raw material cost)

P2 = P1 - (A1 - A2) /1000 x M x 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 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 2021-22

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) with Elastomeric Seal Ring Joints (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	446
	OD 200 mm	MAT-07698	676
	OD 250mm	MAT-07699	1052
	OD 315 mm	MAT-07700	1657
	Pipe Series (S20)		
	OD 125 mm	MAT-07701	347
	OD 160 mm	MAT-07702	549
	OD 200 mm	MAT-07703	835
	OD 250mm	MAT-07704	1302
	OD 315 mm	MAT-07705	2044
	Pipe Series (S16.5)		
	OD 110 mm	MAT-07706	303
	OD 125 mm	MAT-07707	409
	OD 160 mm	MAT-07708	641
	OD 200 mm	MAT-07709	989
	OD 250mm	MAT-07710	1537
	OD 315 mm	MAT-07711	2427

Note: The resin cost adopted for the above rates is Rs.127330/- 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 x M x 0.95 (for increase in raw material cost)

P2 = P1 - (A1 - A2) /1000 x M x 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 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 2021-22					
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	888	MAT-07729	966	MAT-07746	1033
	100	Rmt	MAT-07713	1100	MAT-07730	1211	MAT-07747	1292
	125	Rmt	MAT-07714	1421	MAT-07731	1553	MAT-07748	1670
	150	Rmt	MAT-07715	1723	MAT-07732	1888	MAT-07749	2028
	200	Rmt	MAT-07716	2519	MAT-07733	2733	MAT-07750	2950
	250	Rmt	MAT-07717	3395	MAT-07734	3696	MAT-07751	3987
	300	Rmt	MAT-07718	4378	MAT-07735	4786	MAT-07752	5172
	350	Rmt	MAT-07719	5515	MAT-07736	5982	MAT-07753	6471
	400	Rmt	MAT-07720	6712	MAT-07737	7334	MAT-07754	7897
	450	Rmt	MAT-07721	8094	MAT-07738	8892	MAT-07755	9565
	500	Rmt	MAT-07722	9474	MAT-07739	10322	MAT-07756	11136
	600	Rmt	MAT-07723	12626	MAT-07740	13784	MAT-07757	14889
	700	Rmt	MAT-07724	16295	MAT-07741	17802	MAT-07758	19178
	750	Rmt	MAT-07725	18248	MAT-07742	19952	MAT-07759	21584
	800	Rmt	MAT-07726	20428	MAT-07743	22258	MAT-07760	24010
	900	Rmt	MAT-07727	24882	MAT-07744	27148	MAT-07761	29333
	1000	Rmt	MAT-07728	29893	MAT-07745	32656	MAT-07762	35189
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		0.29		0.29		0.29	
	100 Per KM/RMT		0.29		0.29		0.29	
	125 Per KM/RMT		0.44		0.44		0.44	
	150 Per KM/RMT		0.44		0.44		0.44	
	200		0.74		0.74		0.74	

	Per KM/RMT				
	250 Per KM/RMT		0.89	0.89	0.89
	300 Per KM/RMT		1.17	1.17	1.17
	350 Per KM/RMT		1.61	1.61	1.61
	400 Per KM/RMT		1.90	1.90	1.90
	450 Per KM/RMT		2.20	2.20	2.20
	500 Per KM/RMT		2.63	2.63	2.63
	600 Per KM/RMT		2.63	2.63	2.63
	700 Per KM/RMT		2.63	2.63	2.63
	750 Per KM/RMT		4.38	4.38	4.38
	800 Per KM/RMT		7.45	7.45	7.45
	900 Per KM/RMT		7.45	7.45	7.45
	1000 Per KM/RMT		7.45	7.45	7.45

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. 38,000/-

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 2021-22

Sl. No.	Description	Unit	Class of Pipe			
1	Centrifugally cast (Spun) Ductile Iron pressure pipes for water, gas and sewage with Socket Spigot ends 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		740		868
	100	Rmt	MAT-07763	880	MAT-07778	1053
	150	Rmt	MAT-07764	1267	MAT-07779	1569
	200	Rmt	MAT-07765	1726	MAT-07780	2086
	250	Rmt	MAT-07766	2301	MAT-07781	2765
	300	Rmt	MAT-07767	2936	MAT-07782	3532
	350	Rmt	MAT-07768	3779	MAT-07783	4469
	400	Rmt	MAT-07769	4533	MAT-07784	5331
	450	Rmt	MAT-07770	5486	MAT-07785	6436
	500	Rmt	MAT-07771	6463	MAT-07786	7416
	600	Rmt	MAT-07772	8673	MAT-07787	9896
	700	Rmt	MAT-07773	11026	MAT-07788	12489
	750	Rmt	MAT-07774	12478	MAT-07789	14173
	800	Rmt	MAT-07775	13686	MAT-07790	15411
	900	Rmt	MAT-07776	16862	MAT-07791	18949
	1000	Rmt	MAT-07777	19865	MAT-07792	22268
	1100	Rmt			MAT-07793	24135
	1200	Rmt			MAT-07794	28220
2	Centrifugally cast (Spun) Ductile Iron pressure pipes for water, gas and sewage with plain ends conforming to IS:8329/2000in 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	784	MAT-07810	1002
	150	Rmt	MAT-07796	1160	MAT-07811	1480
	200	Rmt	MAT-07797	1602	MAT-07812	2006
	250	Rmt	MAT-07798	2085	MAT-07813	2663
	300	Rmt	MAT-07799	2756	MAT-07814	3399
	350	Rmt	MAT-07800	3474	MAT-07815	4224
	400	Rmt	MAT-07801	4197	MAT-07816	5092

	450	Rmt	MAT-07802	5015	MAT-07817	6021
	500	Rmt	MAT-07803	5976	MAT-07818	7176
	600	Rmt	MAT-07804	7902	MAT-07819	9270
	700	Rmt	MAT-07805	10420	MAT-07820	11760
	750	Rmt	MAT-07806	11647	MAT-07821	13139
	800	Rmt	MAT-07807	12887	MAT-07822	14521
	900	Rmt	MAT-07808	15598	MAT-07823	17541
	1000	Rmt	MAT-07809	18525	MAT-07824	20874
	1100	Rmt			MAT-07825	22347
	1200	Rmt			MAT-07826	23632

3	Centrifugally cast (Spun) Ductile Iron pressure pies 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		2974		3774		4542		5200		7215
	100	Each	MAT-07827	3269	MAT-07842	4181	MAT-07857	5089	MAT-07872	6001	MAT-07887	7990
	150	Each	MAT-07828	5245	MAT-07843	6991	MAT-07858	7372	MAT-07873	7713	MAT-07888	10863
	200	Each	MAT-07829	6955	MAT-07844	9339	MAT-07859	9480	MAT-07874	10210	MAT-07889	14126
	250	Each	MAT-07830	9081	MAT-07845	12264	MAT-07860	13288	MAT-07875	13773	MAT-07890	19190
	300	Each	MAT-07831	11653	MAT-07846	15701	MAT-07861	17532	MAT-07876	17923	MAT-07891	24713
	350	Each	MAT-07832	21302	MAT-07847	23865	MAT-07862	24754	MAT-07877	27073	MAT-07892	34567
	400	Each	MAT-07833	24991	MAT-07848	31074	MAT-07863	33937	MAT-07878	34091	MAT-07893	40874
	450	Each	MAT-07834	31967	MAT-07849	39276	MAT-07864	42120	MAT-07879	42999	MAT-07894	50507
	500	Each	MAT-07835	40807	MAT-07850	49497	MAT-07865	50856	MAT-07880	51082	MAT-07895	60121
	600	Each	MAT-07836	47131	MAT-07851	58912	MAT-07866	65947	MAT-07881	66793	MAT-07896	84434
	700	Each	MAT-07837	66360	MAT-07852	80486	MAT-07867	83432	MAT-07882	85522	MAT-07897	92172
	800	Each	MAT-07838	78202	MAT-07853	95323	MAT-07868	98899	MAT-07883	107065	MAT-07898	118008
	900	Each	MAT-07839	82911	MAT-07854	103685	MAT-07869	117969	MAT-07884	134168	MAT-07899	147682
	1000	Each	MAT-07840	113682	MAT-07855	138124	MAT-07870	147535	MAT-07885	167133	MAT-07900	183349
	1100	Each	MAT-07841	134238	MAT-07856	161162	MAT-07871	184443	MAT-07886	197334	MAT-07901	223562

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	0.20	0.20	0.30
	100 Per KM/RMT	0.23	0.23	0.35
	150 Per KM/RMT	0.35	0.35	0.46

	200	Per KM/RMT	0.35	0.46	0.69
	250	Per KM/RMT	0.46	0.58	0.92
	300	Per KM/RMT	0.69	0.69	1.16
	350	Per KM/RMT	0.81	0.92	1.39
	400	Per KM/RMT	0.92	1.04	1.62
	450	Per KM/RMT	1.16	1.27	1.96
	500	Per KM/RMT	1.39	1.50	2.31
	600	Per KM/RMT	1.96	1.96	3.00
	700	Per KM/RMT	2.89	2.89	4.39
	750	Per KM/RMT	3.47	3.47	5.31
	800	Per KM/RMT	5.89	5.89	8.78
	900	Per KM/RMT	5.89	5.89	8.78
	1000	Per KM/RMT	5.89	5.89	8.78
	1100	Per KM/RMT	5.89	5.89	8.78

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.38,000/-(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 2021-22

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	118.52
	Above 500 x 500 mm dia.	Kg	MAT-07936	131.52
II	DI All Socket Tees			
	Up to 300 x 300 mm dia.	Kg	MAT-07937	118.52
	Above 300 x 300 mm dia.	Kg	MAT-07938	131.52
III	DI Double socket Tapers (Reducer)			
	Up to 500 x 450 mm dia.	Kg	MAT-07939	118.52
	Above 500 x 450 mm dia.	Kg	MAT-07940	131.52
IV	DI Flanged Socket			
	Up to 500 mm dia.	Kg	MAT-07941	118.52
	Above 500 mm dia.	Kg	MAT-07942	131.52
V	DI Flanged Spigot			
	Up to 500 mm dia.	Kg	MAT-07943	118.52
	Above 500 mm dia.	Kg	MAT-07944	131.52
VI	DI Double Socket Duck Foot Bend			
	Up to 300mm dia.	Kg	MAT-07945	118.52
	Above 300mm dia.	Kg	MAT-07946	131.52
VII	DI Double Flange Duck/Foot bend			
	Up to 300 mm dia.	Kg	MAT-07947	118.52
	Above 300 mm dia.	Kg	MAT-07948	131.52
VIII	DI All socket Cross.			
	Up to 300 x 300 mm dia.	Kg	MAT-07949	118.52
	Above 300 x 300 mm dia.	Kg	MAT-07950	131.52
IX	DI All Flange Tee			
	Up to 500 x 500 mm dia.	Kg	MAT-07951	118.52
	Above 500 x 500 mm dia.	Kg	MAT-07952	131.52
X	DI All Flange Cross			
	Up to 300 x 300 mm dia.	Kg	MAT-07953	118.52
	Above 300 x 300 mm dia.	Kg	MAT-07954	131.52

XI	DI Double Flange Reducer			
	Up to 500 x 450 mm dia.	Kg	MAT-07955	118.52
	Above 500 x 450 mm dia.	Kg	MAT-07956	131.52
XII	Blank Flange			
	Up to 500 mm dia.	Kg	MAT-07957	118.52
	Above 500 mm dia.	Kg	MAT-07958	131.52
XIII	Mechanical Joints			
	Up to 300 mm dia.	Kg	MAT-07959	118.52
	Above 300 mm dia.	Kg	MAT-07960	131.52
XIV	DI Double Socket Bends			
	Up to 500mm dia.	Kg	MAT-07961	118.52
	Above 500 mm dia.	Kg	MAT-07962	131.52
XV	DI Double Flanged Bends			
	Up to 500mm dia.	Kg	MAT-07963	118.52
	Above 500 mm dia.	Kg	MAT-07964	131.52
XVI	DI Manhole Frame & cover	Kg		118.52

26. S o R FOR RUBBER GASKETS SUITABLE FORC.I/ D.I. S/S PIPES FOR THE YEAR 2021-22

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	**39**
	100mm dia.	Each	MAT-07966	**61**
	125mm dia.	Each	MAT-07967	**73**
	150mm dia.	Each	MAT-07968	**89**
	200mm dia.	Each	MAT-07969	**107**
	250mm dia.	Each	MAT-07970	**120**
	300mm dia.	Each	MAT-07971	**183**
	350mm dia.	Each	MAT-07972	**231**
	400mm dia.	Each	MAT-07973	**256**
	450mm dia.	Each	MAT-07974	**299**
	500mm dia.	Each	MAT-07975	**416**
	600mm dia.	Each	MAT-07976	**525**
	700mm dia.	Each	MAT-07977	**698**
	750mm dia.	Each	MAT-07978	**823**
	800mm dia.	Each	MAT-07979	**987**
	900mm dia.	Each	MAT-07980	**1191**
	1000mm dia.	Each	MAT-07981	**1303**

27. SoR FOR CI PIPES AND SPECIALS FOR THE YEAR 2020-21

Sl. No.	Description	Quality or sort	Code	Rate/ Kg including packing, forwarding, Transit risk and delivery anywhere in A.P. for the year 2021-22 (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	**70.94**

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.38,000/- per M.T. (Excluding all taxes).
Coke : Rs.26,519/- 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 2021-22
(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 2021-22.

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 Leaded 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 2021-22.

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.						
	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
	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.						
	DIA. IN MM	Code	PN 1.0 (MPa) Rate/Each	Code	PN 1.6 (MPa) Rate/Each	Code	PN 2.5 (MPa) 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	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						
	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	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.								
	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)	
	a)Without By-Pass	Code	Rate/Each	Code	Rate/Each	Code	Rate/Each
	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 2021-22.

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)	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 2021-22

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 2021-22

Sl. No.	Description	Unit	Code	Rate
1	2	3	4	5
1	SUPPLY AND DELIVERY OF PIG LEAD 99.99 % PURE INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.	Per Kg	MAT-08257	**287**
2	SUPPLY AND DELIVERY OF LEAD WOOL BEST QUALITY INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.	Per Kg	MAT-08258	**168**
3	SUPPLY AND DELIVERY OF SPUN YARN OF BEST QUALITY INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.	Per Kg	MAT-08259	**116**
4	SUPPLY AND DELIVERY OF RUBBER PACKING INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.			
	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 TAXES AND CONVEYANCE ETC., COMPLETE. (1/2" TO 1")	Per Kg	MAT-08262	**111**

34. S o R FOR TRENCH LESS TECHNOLOGY WITH PIPE JACKING METHOD FOR THE YEAR 2021-22

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.S o R FOR HOUSE SERVICE CONNECTIONS FOR THE YEAR 2021-22

Sl. No.	Description	Unit	Code	Rate
1	**House service connections (Compression Fittings)** **S**upply 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 all taxes (central and state), 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.			
	Compression male/female threaded adaptor with SS insert D20 mm X 1/2 "	Each	MAT-08296	**165**
	Compression male/female threaded adaptor with SS insert D25 mm X 3/4 "	Each	MAT-08297	**203**
	Compression male/female threaded adaptor with SS insert D32 mm X 1 "	Each	MAT-08298	**306**
	Compression male/female threaded elbow with SS insert D20 mm X 1/2 "	Each	MAT-08299	**176**
	Compression male/female threaded elbow with SS insert D25 mm X 3/4 "	Each	MAT-08300	**226**
	Compression male/female threaded elbow with SS insert D32 mm X 1 "	Each	MAT-08301	**336**
	Double Compression elbow 20 mm 64	Each	MAT-08302	**72**
	Double Compression elbow 25 mm 79	Each	MAT-08303	**89**
	Double Compression elbow 32 mm	Each	MAT-08304	**126**
2	**House service connections (Composite strap saddle for DI/CI pipes)** Supply and fixing of composite strap saddle shall be of wrap around design pN-16 rating. Body shall be manufactured using virgin 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 all taxes (central and state), 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.			
	(Main pipe outer diameter in mm & tapping size in inches)			
	100 x 1/2"	Each		**685**
	100 x 3/4"	Each		**709**
	100 x 1"	Each		**860**
	150 x 1/2"	Each	MAT-08305	**979**
	150 x 3/4"	Each	MAT-08306	**1018**
	150 x 1"	Each	MAT-08307	**1162**
	200 x 1/2"	Each	MAT-08308	**1034**

	200 x 3/4"	Each	MAT-08309	**1139**
	200 x 1"	Each	MAT-08310	**1185**
3	**House service connections (Regulating Brass ferrule)** The cost shall include testing of all materials, labor all taxes (central and state), 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.			
	1/2"	Each	MAT-08311	**182**
	3/4"	Each	MAT-08312	**300**
	1"	Each	MAT-08313	**523**
4	**House service connections (PP Saddle) PP Clamp saddles-PP clamp Saddles shall be maunfactured 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 moulded with 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) Odiur & 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**			
	(Main pipe outer diameter in mm & tapping size in inches)			
	63x1/2"	Each	MAT-08314	**800**
	63x3/4"	Each	MAT-08315	**800**
	63x1"	Each	MAT-08316	**800**
	75x1/2"	Each	MAT-08317	**800**
	75x3/4"	Each	MAT-08318	**800**

	75x1"	Each	MAT-08319	**800**
	90x1/2"	Each	MAT-08320	**800**
	90x3/4"	Each	MAT-08321	**800**
	90x1"	Each	MAT-08322	**800**
	110x1/2"	Each	MAT-08323	**800**
	110x3/4"	Each	MAT-08324	**800**
	110x1"	Each	MAT-08325	**800**
	125x1/2"	Each	MAT-08326	**800**
	125x3/4"	Each	MAT-08327	**800**
	125x1"	Each	MAT-08328	**800**
	140x1/2"	Each	MAT-08329	**800**
	140x3/4"	Each	MAT-08330	**800**
	140x1"	Each	MAT-08331	**800**
	160x1/2"	Each	MAT-08332	**800**
	160x3/4"	Each	MAT-08333	**800**
	160x1"	Each	MAT-08334	**800**
	180x1/2"	Each	MAT-08335	**954**
	180x3/4"	Each	MAT-08336	**954**
	180x1"	Each	MAT-08337	**954**
	200x1/2"	Each	MAT-08338	**954**
	200x3/4"	Each	MAT-08339	**954**
	200x1"	Each	MAT-08340	**954**
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	**450**	

Note: For Item No.35 (1 to 5).

(A) **The above rates are including taxes of 18% GST. The same may be deducted for obtaining basic rates.**

(B) **The rates for estimate purpose may be compared with market rates by quotations and may be adopted by considering which ever is less.**

36. SoR FOR ARC WELDED M.S PIPE FOR THE YEAR 2021-22

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 2021-22

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 ASTMF 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 2021-22

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	**366**
	Drilling of Bore well 112 mm dia. beyond 150.00 m depth	**418**
	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**	**470**
	Drilling of Bore well 165 mm dia. above 90.00 m up to 150.00 m depth	**502**
	Drilling of Bore well 165 mm dia. above 150.00 m up to 250.00 m depth	**563**
	Drilling of Bore well 165 mm dia. above 250.00 m to 350.00 m depth	**685**
	Drilling of Bore well 165 mm dia. beyond 350.00 **m** depth	**740**
	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 theoritical 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	**1050**
	Drilling of Bore well 350/450mm dia for insertion of pipe dia of 160/175/200 mm	**1360**
	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	**422**
	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	**605**
	Drilling of Bore well of finished dla 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	**9240**
	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	**8400**
	for 165/150 mm dia Bore wells per 1 Job	**9975**
	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	**552**
	for depth from 150 mm to 250mm per RM	**630**
	for depth from 250 mm to 350mm per RM	**767**
	above 350 mm depth per RM	**830**
7	Supply, Delivery of ISI marked fully hot dipped galvanized deep well 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	**11445**
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	**1050**
	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	**1155**
	Slotting charges for 175 mm dia PVC blue casing pipe per RM	**368**
	180 mm dia PVC Casing pipe perforation charges per RM	**342**
	175 mm dia MS Casing pipe perforation charges per RM	**415**
	Supply & Fixing of 180 mm dia PVC Bore Cap per 1No	**315**
10	**Geological Survey Charges excluding taxes.**	
	for plain area-1 Job	**1300**
	for Agency area-1 Job	**10% over plain area rates.**
11	**32mm dia GI B-Class pipes per RM**	
	for 32mm dia GI B-Class pipes per RM	**420**

GOVERNMENTOFANDHRAPRADESH

BUILDINGSSoR:2021-22

SCHEDULE OF RATES

FOR BUILDINGSWORKS

FOR THE YEAR 2021-22

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. 19.07.2021

Sub:- Printing of Buildings-SoR for all the Engineering Departments specific to the functioning of Building works – Buildings-SoR:2021-22 – 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 09.03.2021,31.03.2021,20.04.2021, 28.06.2021 and 15.07.2021

*****

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: 15/07/2021 finalized and approved the Buildings-SoR: 2021-22.

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-2021-22 .

The Heads of Departments mentioned below are authorized to print the Buildings-SoR: 2021-22. Unauthorized printing & selling of the Buildings-SoR is strictly prohibited.

The Buildings SoR 2021-22 will come into force along with common SoR from the date decided by the BoCE.

The receipt of the proceedings may please be acknowledged.

Encloseres: Buildings SoR: 2021-22 as above

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 Developmen 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.

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BUILDINGSSoR: 2021-22

(Civil,WaterSupply&Sanitary,ElectricalandElectro-Mechanicalitems)

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 forBuildings (Civil, Water Supply & Sanitary and Electrical and Electro-Mechanical items). Themeeting 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 year2021 and finalized on 16.07.2021 with an objective to finalize and release the Buildings-SoR: 2021-22.

In formulation of the SoR 2021-22, indices from WPI (Wholesale Price Index) and CIDC (Construction Industry Development Council) for the year 2020-21 were refered. For Labour Rates the lobour commissioner of AP recommendations are taken into account. BoCE labour rates are refered. For different section materials, market quotations are obtained utilizing the services of member departments.

The rates and proceedures followed in Telangana SoR 2021-22 which is released in June 2021 is also discussed and deliberated.

2.0APPLICABILITYOFCOMMONSoR–2021-22

The rates of labour, common materials & work items, Public Health items, conveyanceratesofmaterials& hirechargesapprovedandpublishedinCommonSoR-2021-22remain applicable. The specifications, stipulations & all other conditions of Common-SoRotherthanthosespecifiedinthis contextremainapplicable.

3.0 OVERHEADS&CONTRACTORSPROFIT

a. The provision of 'Over Heads and Contractor's Profit @ 13.615% shall be allowed inall the data items of the estimates and rates of the finished items in building workswhere 'Contractors All Risk'policy isdispensedwith.

b. Itisreiteratedthattheprovisionof'OverHeadsandContractor'sProfit'isapplicableto Building works since the advent of the AP. Revised standard data-2009, which isapproved by the Government in G.O.Ms.No.49 I&CAD (PW-Reforms) Dept., dated:02-03-2009andthiscomponentshallbeoperativeonallthedataitemsoftheestimates and rates of the finished items published in **Buildings SoR for all originalworks and major Renovationworks** subjected to the fulfillment of the conditionsgiven below:

   i. Siteaccommodation,settingupplant,accessroad,watersupply,electricityand generalsitearrangements.

   ii. Officefurniture,equipmentandcommunications.

   iii. Expenditureon:

      a) Corporateofficeofcontractor.

      b) Technical agents for site supervision. (Reimbursement to the technicalagents provision is dispensed with where 'over heads and contractor'sprofit'provision is included inthe datarates)

      c) Documentationand"**asbuilt**"drawings.

      d) Mobilization/de-mobilizationofresources.

      e) Labourcampswithminimumamenitiesandtransportationto worksites.

      f) Lightvehiclesforsitesupervisionincludingadministrativeandmanagerialre quirements.

      g) Laboratory equipment and quality control including field and laboratorytesting.(***Forallthe workscostingmorethanRs.2Crorescontr actors havetoestablish Quality Controllaboratory***)

      h) Minor T & P and survey instruments and setting outworks,

includingverification ofline,dimensions,etc.

i) Watchandward.

j) Trafficmanagement/Safetymanagementduringconstruction.

k) Expenditureonsafeguardingenvironment.

iv. Sundries.

v. FinancingExpenditure.

vi. Sales/ Turn overtax is replaced with GST wef 01.07.2017. The rates arrived inthis SoR are only basic rates which are exclusive of all taxes. However, as perthe suggestion of BoCE, the provision towards Works Contract Tax as perapplicableGST rates shallbeaddedinthe estimates.

vii. Work Insurance/ compensation - Works insurance is dispensed with vide G.O.Ms.No:61Irrigation&CAD(PW: Reforms)DepartmentDt.25-06-2013.Further, Itisdecidednottoinsistuponinsuringallthebuildingworksasprovisionforthiscomponentisalreadydeletedfromthe'Overheads&Contractor'sProfit' in buildingworks.

4.0 OTHERGUIDELINES

1. Municipal Area Allowance, Agency or Tribal area allowance or any such allowance onthe labour components of civil, water supply & sanitary items, Electrical and Electro-Mechanical items of building works shall be allowed wherever applicable as per theguidelines and preamble of Common SoR: 2021-22. For the building work estimatestaken 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 specificrecommendationfromsuch AreaDevelopmentAuthorities.
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 therateanalysis appendedintheA.P.RevisedStandardData-2009.
3. CertainitemsintheSoRaredeletedduetochangeinthespecification,non-availabilityinthemarketetc.,
4. The Electrical and Electro-Mechanical items and corresponding rates, as proposed by the Chief Engineer(R&B)Electricalinthemeeting,havebeenconsideredintheBuildingsSoR-2021-22.
5. The specifications of the aggregates for sizes and gradation and its adoption shall beasper IS383-1970andIS2386(Part1toPart8).
6. No allowance towards 'Labour Importation & Labour Amenities' shall be added to thedataastheyareincludedintheprovisionof'Overheadsandcontractor's profit'.
7. For all the materials, the basic rates given in the Buildings SoR are 'landing prices' atthesite whichareexclusive ofalltaxes,exceptwherementionedspecifically.
8. Forthematerialswherethebasicratesarementionedas'quarryrates'intheBuildings SoR lead charges are to be added fortheleaddistancesfromtheapprovedquarriesasapplicable.Whereverthetерm"carriage" or "conveyance" is used in schedule item, it shall be taken to include actualleads,lifts,loading,unloadingandstackingtothesatisfactionofthetechnicalsanctioningauthority whilemakingtheprice-adjustments.
9. The conveyance charges perunit quantity of the materialsare 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.
10. For building works taken up in the hill areas where the materials are conveyed on ghatroads, the lead distance may be taken as 2.0 times of the existing length of the road forthe purpose of leads only for conveyance of materials based on the certificate for theGhatRoadgivenbytheSuperintendingEngineerconcerned.
11. Loadingandunloadingchargesarenotpayableforconveyancebyheadload.
12. Loadingandunloadingchargesarenotpayableforconveyancebymechanicalmeans, fordisposal ofexcavatedmaterial unless specified.
13. The rates for unloading of materials except earth, sand, gravel, coarse

aggregate,rubble,sizestone and cutstone, areinclusiveof stackingwhereverapplicable.

14. The input rate for the water charges taken in Common Standard Schedule of Rates forthe basic data is for the sources at site, any water lead as applicable may be allowedasper theconveyancecharges.
15. Unless otherwise specified, all material rates shall be exclusive of all taxes, duties,levies, royalty/seigniorage.
16. Any errors, omissions, corrections or suggestions shall be brought to the notice of the'COMMITTEEOFTHECHIEFENGINEERS(BuildingsSoR)'forcorrectiveaction.
17. For any new items to be included in the 'Schedule of Rates', recommendations withspecific remarks of the respective departments should reach the 'Committee of ChiefEngineers'wellinadvance.
18. TheCWC(MinistryofIrrigation)hasrecommendedthat"wherestandardorscheduleof rates are revised or where is necessary to do so, the primary guiding principleshouldbeescalationinlabourandmaterialcostandnotontrendofratesquotedbythe contractors". The 'Committee of Chief engineers' (Buildings SoR) have consideredthe practicality and adoptability of the 'Buildings-SoR' in construction of the buildingprojectsinfinalizing the 'Buildings-SoR'.
19. 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.
20. The technical specifications and the rates of the corresponding items given in the SoRare for the guidance only. The estimate preparing authorities are requested to obtainliterature for usage / application of construction / water proofing materials, epoxies etc,from the manufacturers or authorized suppliers in the contract documents as per therequirement.
21. Steel Centering & Scaffolding charges for Shear walls, RCC walls and Water tank walls are incorporated in this Buildings SoR 2021-22. 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.
22. Double Grooved and Precoated extruded Mineral (Cement) roof tiles are introduced.
23. Clarity on nomenclature of Floors for data calculations is given as below

For	To Read
GF	F1
FF	F2
SF	F3
TF	F4

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

5.0 CONCLUSION

1. The Committee of Chief Engineers on Buildings-SoR: 2021-22 (Civil & Electrical) has metin the chambers of Chief Engineer (R&B) Buildings& RSW, several times during theyear 2021and approved the Buildings SoR:2021-22,without any tax elements based ontherepresentationsreceivedfromvariousEngineeringDepartments.Asperthesuggestion of BoCE, 12% GST rate on the Estimate Contract Value(ECV) towards workscontractshallbeprovidedinPart-Bof theestimate duringpreparationofestimates.

2. SSR Rates for Civil, Sanitary & water supply and Electrical Items are purely for theguidance of the officers in preparation of estimates vide Para 113 of APPWD code.Authoritywhopreparestheestimateishoweverresponsibleforproperratesasenvisaged inPara45ofAPPWDcode.

3. The rates published in the Buildings SoR are ceiling rates and the estimate preparingauthorities are responsible for the correctness and reasonableness of the TechnicalSpecificationsandRatesadoptedintheestimates.

BUILDINGITEMS

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR2021-22(Rs.)
1		2	3	4	5
		A.SECTION	BRICKS&BUILDINGBLOCKS (ex-quarryprice-excludingcostofconveyance,loading&unloading)		
		I. SUB-SECTION	ORDINARYCLAYBRICKS		
1	MAT-00721	BMT-A.01	Common burnt clay bricks of class asperTable-1ofIS:1077-1992Non-Modularoftraditionalsize23x11x7cm	1000 Nos	**6400**
2	MAT-00748	BMT-A.02	Common burnt clay bricks of class asper Table-1 of IS:1077-1992 Modular oftraditionalsize19x 9x9cm	1000 Nos	**7200**
		II. SUB-SECTION	FLY-ASHCEMENT/LIMESOLIDBLOCKS (ex-quarryprice-excludingcostofconveyance,loading&unloading)		
3	MAT-00749	BMT-A.03	Flyashcement/limesolidblockswithcompressive strength of 75 kg/sq.cm -IS:12894-1990-CLASS-7.5-290x 225x140 mm	Each	**28**
4	MAT-00750	BMT-A.04	Flyashcement/limesolidblockswithcompressive strength of 75 kg/sq.cm -IS:12894-1990-CLASS-7.5-290x 200x140 mm	Each	**25**
5	MAT-00751	BMT-A.05	Flyashcement/limesolidblockswithcompressive strength of 75 kg/sq.cm -IS:12894-1990-CLASS-7.5-290x 150x140 mm	Each	**21**
6	MAT-00752	BMT-A.06	Flyashcement/limesolidblockswithcompressive strength of 75 kg/sq.cm -IS:12894-1990-CLASS-7.5-290x 112/100x 140mm	Each	**16**
7	MAT-00753	BMT-A.07	Flyashcement/limesolidblockswithcompressive strength of 75 kg/sq.cm -IS:12894-1990-CLASS-7.5-225x 100x60mm	Each	**8.5**
8	MAT-00754	BMT-A.08	Flyashcement/limesolidblockswithcompressive strength of 75 kg/sq.cm -IS:12894-1990-CLASS-7.5-145x 225x140 mm	Each	**17**
9	MAT-00755	BMT-A.09	Flyashcement/limesolidblockswithcompressive strength of 75 kg/sq.cm -IS:12894-1990-CLASS-7.5-145x 200x140 mm	Each	**12.5**
10	MAT-00756	BMT-A.10	Fly ash cement/ lime solid blocks withcompressive strength of50 kg/sq.cm -IS:12894-1990- CLASS -5 -290x 225 x 140mm	Each	**25**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
11	MAT-00757	BMT-A.11	Fly ash cement/ lime solid blocks withcompressive strength of50 kg/sq.cm -IS:12894-1990- CLASS -5 -290x 200 x 140mm	Each	**21**
12	MAT-00758	BMT-A.12	Fly ash cement/ lime solid blocks withcompressive strength of50 kg/sq.cm -IS:12894-1990-CLASS-5-Flyash cement/limesolidblockswithcompressive strength of50 kg/sq.cm -IS:12894-1990-CLASS -5-290 x 150x 140mm	Each	**22**
13	MAT-00759	BMT-A.13	Fly ash cement/ lime solid blocks withcompressive strength of50 kg/sq.cm -IS:12894-1990-CLASS-5-290x 112/100x 140mm	Each	**11.5**
14	MAT-00760	BMT-A.14	Fly ash cement/ lime solid blocks withcompressive strength of50 kg/sq.cm -IS:12894-1990- CLASS -5 -225x 100 x 60mm	Each	**6.5**
15	MAT-00761	BMT-A.15	Fly ash cement/ lime solid blocks withcompressive strength of50 kg/sq.cm -IS:12894-1990- CLASS -5 -145x 225 x 140mm	Each	**12.5**
16	MAT-00762	BMT-A.16	Fly ash cement/ lime solid blocks withcompressive strength of50 kg/sq.cm -IS:12894-1990- CLASS -5 -145x 200 x 140mm	Each	**11.5**
17	MAT-00763	BMT-A.17	Supplyofwellburntcinderaggregatesasper IS:2686-1977	1 Cum	**650**
		III. SUB-SECTION	**AUTOCLAVEDCONCRETEBLOCKS (*landing cost - including cost ofconveyance,loading&unloading*)**		
			SupplyofAerated(Cellular)Autoclaved ConcreteBlocksconforming to IS:2185 (Part-3) - 1984andIS:6441-1972ofCompressivestrength3N/mm^2		
18	MAT-00764	BMT-A.18	600x200x100 mm	Each	**48**
19	MAT-00765	BMT-A.19	600x200x150 mm	Each	**70**
20	MAT-00766	BMT-A.20	600x200x200 mm	Each	**94**
21	MAT-00767	BMT-A.21	600x200x230 mm	Each	**107**
22(a)	MAT-05337	BMT-A.22	Supply of Cement based, PolymermodifiedPre-mixeddryjointingmortarfor laying AAC Blocks – Masonry Glue110 orequivalent	1Kg	**15**
22(b)	MAT-08727	BMT-A.23	SupplyofCementbased,Polymer	1Kg	**13**

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2021-22 (Rs.)
1		2	3	4	5
			modifiedPre-mixed bonding coatforplasteringonsmoothconcrete/masonrysurfaces.		
22(c)	MAT-08728	BMT-A.24	Supply of Cement based, PolymermodifiedPre-mixed dry plasteringmortarforplasteringwalls,columns,ceilings.	1Kg	**10**
22(d)	MAT-08729	BMT-A.25	Supply of Cement based, PolymermodifiedPre-mixed drymortarforfixingtilesonwalls &floors	1Kg	**15**
		B.SECTION	**NATURALFLOORINGSTONES (ex-quarryprice– excludingcostofconveyance,loading& unloading)**		
		I.SUB-SECTION	**LOCALLYAVAILABLEFLOORING STONES**		
23	MAT-00768	BMT-B.01	Kadapaslab40mmthickandsizenotlessthan0.457Mx0.457M	1 Sqm	**120**
24	MAT-00769	BMT-B.02	Kadapaslab50mmthickandsizenotlessthan0.457Mx0.457M	1 Sqm	**140**
25	MAT-00770	BMT-B.03	Shahabad/TandurRoughStoneslabsofminimumof25 mmthick	10 Sqm	**1000**
26	MAT-00771	BMT-B.04	Shahabad/TandurRoughStoneslabsofminimum40mm thick	10 Sqm	**1300**
27	MAT-00772	BMT-B.05	PolishedShahabad/Tandurstoneslabsof15to 18mmthick	10 Sqm	**1650**
28	MAT-00773	BMT-B.06	PolishedblackKadapaslabsminimumof15 mm thick (0.457x0.457M)	10 Sqm	**1500**
29	MAT-00774	BMT-B.07	PolishedBethamcherlapure(marbletype) white stone minimum 25 mm thick(0.254Mx0.254M)	10 Sqm	**4000**
30	MAT-00775	BMT-B.08	PolishedBethamcherlacolouredstoneminimum25mmthick(0.254Mx0.254M)	10 Sqm	**2800**
31	MAT-00784	BMT-B.17	Polished blackKadapaslabsofallsizesbetween 25 -30mmthickness	10 Sqm	**1600**
		II.SUB-SECTION	**NATURALFLOORINGSTONES-MARBLE**		
32	MAT-00779	BMT-B.12	PolishedMarbleslabsofDongari/Adanga/Marodh/Rajgangpuretc.,varietyof thickness between 16 mm to20mmofsizesfrom 600mmto900 mm	1sqm	**680**
33	MAT-00780	BMT-B.13	PolishedMarbleslabsofDongari/Adanga/Marodh/Rajgangpuretc.,varietyof thickness between 16 mm to20mmofsizesupto600 mm	1sqm	**550**
34	MAT-00781	BMT-B.14	PolishedMarbleslabs ofany variety and	1sqm	**930**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			gangsawcut(SuchasDongari/Adanga/Marodh/ Rajgangpuretc)16mm to 20 mm (average) thick (0.610 Mwidthofany length)		
35	MAT-00782	BMT-B.15	PolishedMarbleTilesof8-10mmthicknessof allsizesandvarieties	1sqm	**440**
		III.SUB-SECTION	**NATURALFLOORINGSTONES-GRANITE**		
36	MAT-00776	BMT-B.09	High Polished Granite 16 to 18 mm thickup to 2.43 M other than black/ premiumcolours	1 Sqm	**2695**
37	MAT-00777	BMT-B.10	High Polished Granite 16 to 18 mmthick up to 2.43 M other than black andregularcolours	1 Sqm	**2342**
38	MAT-00778	BMT-B.11	HighPolishedGranite 16to18mmthickupto 2.43Mblack	1 Sqm	**1991**
39	MAT-00783	BMT-B.16	Granitestonetiles8mmthick(mirrorpolished ofallshades)	1sqm	**1005**
		C.SECTION	**WALL&FLOORTILES (Landingcost–includingloading,costof conveyance,unloading)**		
		I.SUB-SECTION	**NON-PORCELAINCERAMICFLOORTILES**		
40	MAT-00785	BMT-C.01	Supply of Non-skid red or white full bodyCeramic floor tiles of Size 300 mm x 300mm and thickness between 7-8 mm and1stqualityconformingtoIS:13711,IS:13712,IS:13630 (Parts1to15)of any colour and finish in all shades anddesigns	1 Sqm	**370**
41	MAT-00786	BMT-C.02	Supply of Non-skid red or white full bodyCeramic floor tiles of Size 450 mm x 450mm and thickness between 7-8 mm and1stqualityconformingtoIS:13711,IS:13712,IS:13630 (Parts1to15)of any colour and finish in all shades anddesigns	1 Sqm	**374**
42	MAT-00787	BMT-C.03	Supply of Non-skid red or white full bodyCeramic floor tiles of Size 600 mm x 600mmandthicknessbetween8-10mmand 1st quality conforming to IS:13711,IS:13712,IS:13630 (Parts1to15)of any colour and finish in all shades anddesigns	1 Sqm	**484**
43	MAT-00788	BMT-C.04	SupplyofNon-skidredorwhitefullbodyCeramic floor tiles of Scratch free-stainfree and scratch free-nano finish of Size600 mmx 600 mmand thickness	1 Sqm	**508**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			between 8-10 mm and 1st qualityconforming to IS:13711, IS:13712,IS:13630 (Parts 1 to 15) of any colourandfinishinallshadesanddesigns		
		II. SUB-SECTION	**PORCELAINVITRIFIEDFLOORTILES**		
44	MAT-00789	BMT-C.05	**ITEMDELETED**		
45	MAT-00790	BMT-C.06	Supply of soluble salt porcelain vitrifiedtiles screen printed and polished of size600 x600 mmand thicknessbetween 8-10mm1stqualityconformingtoIS:13711, IS:13712, IS:13630 (Parts1to15)ofanycolourandfinishinallshades anddesigns.	1 Sqm	**418**
46	MAT-00791	BMT-C.07	SupplyofNanopolished/stainfreesolublesaltporcelainvitrifiedtilesscreen printedofsize600 x 600mmandthicknessbetween8-10mm1stqualityconformingtoIS:13711,IS:13712,IS:13630 (Parts1to15)of any colour and finish in all shades anddesigns	1 Sqm	**421**
47	MAT-00792	BMT-C.08	**ITEMDELETED**		
			Supply of Double charged / multicharged stain free full body porcelainvitrifiedtileswithdouble layerpigmentof 1st quality conforming to IS:13711,IS:13712,IS:13630(Parts1to 15)of anycolourandfinishinallshadesanddesigns		
48	MAT-00793	BMT-C.09	Supply of Double charged / multicharged stain free full body porcelainvitrifiedtileswithdouble layerpigmentof Size 600 x 600 mm and thicknessbetween 8-10 mmand 1st qualityconforming to IS:13711, IS:13712,IS:13630 (Parts 1 to 15) of any colourandfinishinallshadesand designs	1 Sqm	**612**
49	MAT-00794	BMT-C.10	Supply of Double charged / multicharged stain free full body porcelainvitrifiedtileswithdouble layerpigmentof Size 800 x 800 mm and thicknessbetween 9-11 mmand 1st qualityconforming to IS:13711, IS:13712,IS:13630 (Parts 1 to 15) of any colourandfinishinallshadesand designs	1 Sqm	**758**
50	MAT-00795	BMT-C.11	**ITEMDELETED**		
51	MAT-00796	BMT-C.12	Supplyofdigital/polishedglazedfull	1	**718**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			bodyporcelainvitrifiedtileswithanytype of design texture such as marblefinish, wooden, bamboo, stone finishesetc.,scratchless,stainfreeandSize800 x800 mmand thicknessbetween 9-11mmof1stqualityconformingtoIS:13711, IS:13712,IS:13630(Parts1to15)ofanycolourandfinishinallshadesanddesigns	Sqm	
52	MAT-00797	BMT-C.13	Supply of digital /polished glazedfullbodyporcelainvitrifiedtileswithanytype of design texture such as marblefinish, wooden, bamboo, stone finishesetc.,scratchless,stainfreeandSize900 x900 mmand thicknessbetween 9-11mmof1stqualityconformingtoIS:13711, IS:13712, IS:13630 (Parts1to15)ofanycolourandfinishinallshadesanddesigns	1 Sqm	**924**
52(a)	MAT-08730	BMT-C.13(a)	Supply of glazed vitrified tiles with mattfinishofsize600x600mmandthicknessbetween 9-10 mm 1st quality confirmingtoIS:13711,IS:13712,IS:13630(Parts 1to 15)ofanycolurandfinishinallshadesanddesigns .	1 Sqm	**818**
53to 59		BMT-C.14toBMT-C.20	**ITEMSDELETED**		
		III.SUB-SECTION	**CERAMICWALLTILES**		
60	MAT-00805	BMT-C.21	Supply of glazed red or white full bodyceramicwalltilesofSize200x300mm / 245 mm x 325 mm and thickness6mmand1stqualityconformingtoIS:13711,IS:13712,IS:13630(Parts1 to15)ofanycolourandfinishinallshadesanddesigns	1 Sqm	**323**
61	MAT-00806	BMT-C.22	Supply of glazed red or white full bodyceramicwalltilesofSize300x450mm / 320 mm x 400 mm and thickness6mmand1stqualityconformingtoIS:13711,IS:13712,IS:13630(Parts1 to15)ofanycolourandfinishinallshadesanddesigns	1 Sqm	**396**
62	MAT-00807	BMT-C.23	Supply of glazed red or white full bodyceramic wall tiles of Size 300 x 600 mmand thickness between 6-8 mm and 1stqualityconformingtoIS:13711,IS:13712,IS:13630 (Parts1to15)of any colour and finish in all shades anddesigns	1 Sqm	**538**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
		IV.SUB-SECTION	**PORCELAINWALLTILES**		
63	MAT-00808	BMT-C.24	Supplyofglazedfullbodyporcelainwall tiles of size 300 x 600 mm with anytype of design texture such as marblefinish, wooden, bamboo, stone finishesetc.,scratchless,stainfreeandthickness between 6-8 mm 1st qualityconformingtoIS:13711,IS:13712,IS:13630 (Parts 1 to 15) of any colourandfinishinallshades and designs	1 Sqm	**554**
64	MAT-00809	BMT-C.25	Supply of **digital / polished** glazed fullbody porcelainwall tiles of size 300 x600 mm with any type of design texturesuch as marble finish, wooden, bamboo,stonefinishesetc.,scratchless,stainfree and thickness between 6-8 mm 1stqualityconformingtoIS:13711,IS:13712,IS:13630 (Parts1to15)of any colour and finish in all shades anddesigns	1 Sqm	**556**
65	MAT-00810	BMT-C.26	Supply of digital / polishedglazed fullbody porcelain**highlighter** wall tiles ofsize300x600mmwithanytypeofdesigntexturesuchasmarblefinish,wooden,bamboo,stonefinishesetc.,scratchless,stainfreeandthicknessbetween 6-8 mm 1st quality conformingtoIS:13711,IS:13712,IS:13630(Parts 1 to 15) of any colour and finish in allshadesanddesigns	1 Sqm	**564**
66	MAT-00811	BMT-C.27	Supplyofscreenprintedglazedfullbody porcelainwall tiles of size 300 x600 mm with any type of design texturesuch as marble finish, wooden, bamboo,stonefinishesetc.,scratchless,stainfree and thickness between 6-8 mm 1stqualityconformingtoIS:13711,IS:13712,IS:13630 (Parts1to15)of any colour and finish in all shades anddesigns	1 Sqm	**612**
67	MAT-00812	BMT-C.28	Supplyofglazedfullbodyporcelainwall tiles of size 400 x 600 mm with anytype of design texture such as marblefinish, wooden, bamboo, stone finishesetc.,scratchless,stainfreeandthickness between 6-8mm 1st qualityconformingtoIS:13711,IS:13712,IS:13630 (Parts 1 to 15) of any colourandfinishinallshades and designs	1 Sqm	**726**
68to 70		BMT-C.29 toBMT-C.31	**ITEMSDELETED**		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
71	MAT-00816	BMT-C.32	Providingandfixingwalldadowithepoxyemulsiongrout/synthetic/resinbasedadhesiveinspecifiedthickandpointingwithspecifiedcolourepoxygroutexcludingcostoftiles	1 Sqm	**294**
72	MAT-00817	BMT-C.33	Providingandfixingwalldadowithcementbasedadhesiveinspecifiedthick and pointing with specified colourepoxygrout excludingcost oftiles	1 Sqm	**149**
73	MAT-00818	BMT-C.34	ProvidingandfixingflooringwithfulldepthjointingandpointingtotheVitrified/CeramicTileflooringinspecified thickfor tiles of any sizes withepoxy emulsion grout/ synthetic / resinadhesive in width of 3-5 mm with Nylonspacers excludingcost oftiles.	1 Sqm	**295**
74	MAT-00819	BMT-C.35	ProvidingandfixingflooringwithfulldepthjointingandpointingtotheVitrified/CeramicTileflooringinspecified thickfor tiles of any sizes withcement based adhesive in width of 3-5mmwith Nylonspacersexcluding costoftiles .	1 Sqm	**157**
75	MAT-00820	BMT-C.36	ProvidingandfixingflooringwithfulldepthjointingandpointingtotheMarble/ Granite flooringfor any sizeswithepoxyemulsiongrout/synthetic/resin based adhesive in width of 3-5 mmexcludingcostoftiles.	1 Sqm	**591**
76	MAT-00821	BMT-C.37	ProvidingandfixingflooringwithfulldepthjointingandpointingtotheMarble/ Granite flooringfor any sizeswith cement based adhesive in width of3-5mm excludingcostoftiles.	1 Sqm	**298**
		V.SUB-SECTION	**GLASSMOSAICTILES**		
77to 79		BMT-C.38 toBMT-C.40	**ITEMSDELETED**		
		VI.SUB-SECTION	**WALLCLADDINGTILES**		
80	MAT-00825	BMT-C.41	Supply of glazed full body porcelain tilesforexternalcladdingpurposesofanysizeand **thickness between 6-10 mm**1stqualityconformingtoIS:13711,IS:13712,IS:13630(Parts1to15)of any colour and finish in all shades anddesigns.	1 Sqm	**527**
81	MAT-00826	BMT-C.42	Supplyofglazedredorwhitefullbodyceramic tiles for external cladding	1 Sqm	**422**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			purposesofanysizeand**thicknessbetween 5-7 mm** 1st quality conformingtoIS:13711,IS:13712,IS:13630(Parts 1 to 15) of any colour and finish in allshadesanddesigns		
82	MAT-00827	BMT-C.43	Supply of glazed red or white full bodyceramictilesforexternalcladdingpurposesofanysizeand**thicknessbetween10-12mm**1stqualityconformingtoIS:13711,IS:13712,IS:13630 (Parts 1 to 15) of any colourandfinishinallshades and designs	1 Sqm	**437**
83	MAT-00828	BMT-C.44	**ITEMDELETED**		
84	MAT-08731	BMT-C.45	Brick tiles of size 230mm x 75 mm and 12mm thick	1 Sqm	**400**
85	MAT-08732	BMT-C.46	Natural stone (Bethamcherla or equivalent) of size not exceeding 300mm x300mm and 18-20mm thick	1 Sqm	**510**
86	MAT-08733	BMT-C.47	Terracotta tiles size 125mm x 200mm and 12-15mm thick	1 Sqm	**370**
		VII SUB-SECTION	**EPOXY FLOORING, COVING**		
87	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	1710
88	MAT-08735	BMT-C.49	Supply and application of epoxy coving 50mmx50mm width at the corners of the walls	1 RM	470
		D.SECTION	**PAVING&INTERLOCKINGTILES**		
		I.SUB-SECTION	**TERRAZOFLOORTILES(PLAIN&CHEQURED)** *(landing cost - including cost ofconveyance,loading&unloading)*		
89	MAT-00829	BMT-D.01	Supplyingprecastterrazzochequeredtiles conformingtoIS:13801usingmarbleaggregatesofsize10mm,sand,marblepowder,whitecementpigments etc., with terrazzo topping notless than 6 mm of tiles overall size notless than 20 mm thick of any colouredshades.	1sqm	**266**
90	MAT-00830	BMT-D.02	Supplyingprecastterrazzotilesconformingtoconformingtoconformingto

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
91	MAT-00831	BMT-D.03	Supplyingprecastterrazzoplaintilesconforming to IS: 13801using marbleaggregatesofsize10mm,sand,marble powder, white cement pigmentsetc., with terrazzo toppingnotless than6 mm of tiles overall size not less than20mmthickanycolouredshades.	1sqm	**272**
		II.SUB-SECTION	**CEMENTCONRETEFLOORTILES(PLAIN&CHEQUERED)**		
92	MAT-00832	BMT-D.04	SupplyingplainCementConcretegeneral purpose tiles conforming to IS:13801usingaggregates,cement,pigmentsofsize300x300mmandthickness20 mmofany shades.	1 Sqm	**241**
93	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	**252**
94	MAT-00834	BMT-D.06	SupplyingplainCementConcretegeneral purpose tiles conforming to IS:13801usingaggregates,cement,pigmentsofsize300x300mmandthickness25 mmofany shades.	1 Sqm	**257**
95	MAT-00835	BMT-D.07	Supplying Chequered Cement ConcreteheavydutytilesconformingtoIS:13801usingaggregates,cement,pigmentsofsize300x300mmandthickness25 mmofany shades.	1 Sqm	**269**
96	MAT-00836	BMT-D.08	SupplyingplainCementConcretegeneral purpose tiles conforming to IS:13801usingaggregates,cement,pigmentsofsize400x400mmandthickness25 mmofany shades.	1 Sqm	**280**
97	MAT-00837	BMT-D.09	Supplying Chequered Cement ConcreteheavydutytilesconformingtoIS:13801usingaggregates,cement,pigmentsofsize400x400mmandthickness25 mmofany shades.	1 Sqm	**288**
98	MAT-00838	BMT-D.10	SupplyofhighstrengthCementConcrete plain Step tiles with edge halfrounded and grooved conforming toIS:13801usingaggregates,cement,pigmentsofregularcolour,designandof25mm thickness	1 Sqm	**419**
99	MAT-00839	BMT-D.11	SupplyofhighstrengthCementConcrete terrazzo/pre-polished/chequered Step tiles with edge roundedand grooved conforming toIS: 13801using aggregates, cement, pigments ofany premium colour, design and of 25mmthickness	1 Sqm	**440**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
		III.SUB-SECTION	**PRE-CASTCONCRETEBLOCKSFORPAVING**		
100	MAT-00840	BMT-D.12	Supplyofprecastconcreteblocksforpaving of M-30 grade and thickness notless than 50 mm for Non-traffic areasconformingtoIS15658:2006inallshapesanddesignsasperthemanufacturer's specification	1 Sqm	**280**
101	MAT-00841	BMT-D.13	Supplyofprecastconcreteblocksforpaving of M-35 grade and thickness notless than 60 mm for Light traffic areasconformingtoIS15658:2006inallshapesanddesignsasperthemanufacturer's specification	1 Sqm	**320**
102	MAT-00842	BMT-D.14	Supplyofprecastconcreteblocksforpaving of M-40 grade and thickness notlessthan80mmforMediumtrafficareas conforming to IS 15658:2006 in allshapesanddesignsasperthemanufacturer's specification	1 Sqm	**450**
103	MAT-00843	BMT-D.15	Supplyofprecastconcreteblocksforpaving of M-50 grade and thickness notless than 100 mm for Heavy traffic areasconformingtoIS15658:2006inallshapesanddesignsasperthemanufacturer's specification	1 Sqm	**500**
104	MAT-00844	BMT-D.16	Supplyofprecastconcreteblocksforpaving of M-55 grade and thickness notless than 120 mm for very heavy trafficareas conforming to IS 15658:2006 in allshapesanddesignsasperthemanufacturer's specification	1 Sqm	**570**
105	LAB-01180	BMT-D.17	Labour charges for laying & fixing ofprecast concrete blocks for paving of allgrades, any thickness, all sizes &shapes including all labour charges forloading & unloading, laying to desiredlinesandlevelscompleteexcludingcostofcement,sand,water, electricityetc	1 Sqm	**190**
106	MAT-08736	BMT-D.21	Supplyof 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 allshapesanddesignsasperthemanufacturer's specification	1 Sqm	**355**
107	MAT-08737	BMT-D.22	Supplyof 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 allshapesanddesignsasperthemanufacturer's specification	1 Sqm	**481**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
		IV.SUB-SECTION	**VINYLFLOORING**		
108	MAT-05338	BMT-D.18	**VinylFlooring**Sheets/tileshavinganominal total thickness of 2 mm with awearingsurfaceimpregnatedpolyurethanehomogeneousmixtureofPVC,Plasticizers,Urethane,colorpigmentswithwearingresistanceandFireResistanceasperstandards	1 Sqm	**720**
109	MAT-05339	BMT-D.19	**VinylCompositionFloorTiles**ofsize 305mmx 305mmhavinganoverallthicknessof2.0mmwithawearingsurfaceimpregnatedpolyurethanehomogeneousmixtureofPVC,Plasticizers,Urethane,colorpigmentswithwearingresistanceandFireResistance as perstandards	1 Sqm	**452**
110	MAT-05340	BMT-D.20	**Vinyl Flooring Sheets or tiles** having anominal total thickness of 1.5 mm with awearingsurfaceimpregnatedpolyurethanehomogeneousmixtureofPVC,Plasticizers,Urethane,colorpigmentswithwearingresistanceandFireResistanceasperstandards	1 Sqm	**327**
		E.SECTION	**TIMBER&ROOFINGMATERIALS** *(Landingcost–includingcostof*		
			conveyance,loading&unloading)		
			Note:BeforeproposingtheTeakWoodItems, the estimating authorities shallobtain prior approval from thecompetent authority		
		I.SUB-SECTION	**MEDIUMTEAKWOOD**		
111	MAT-00846	BMT-E.01	MediumTeakWoodscantlings:upto 2.0M	1cum	**74500**
112	MAT-00847	BMT-E.02	MediumTeakWoodscantlings:2.0to 3.0M	1cum	**83000**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
113	MAT-00848	BMT-E.03	MediumTeakWoodscantlings:above 3.0M	1cum	**91300**
114	MAT-00849	BMT-E.04	Medium Teak Wood Plancks: anythickness	1cum	**149000**
		II.SUB-SECTION	**BESTTEAKWOOD**		
115	MAT-00850	BMT-E.05	BestTeakWoodscantlings:upto2.0M	1cum	**128000**
116	MAT-00851	BMT-E.06	BestTeakWoodscantlings:2.0to3.0M	1cum	**137000**
117	MAT-00852	BMT-E.07	BestTeakWoodscantlings:above3.0M	1cum	**145000**
118	MAT-00853	BMT-E.08	BestTeakWood Plancks:anythickness	1cum	**161000**
		III.SUB-SECTION	**BURMATEAK WOOD**		
119	MAT-00854	BMT-E.09	BurmaTeakWoodscantlings:upto2.0M	1cum	**168485**
120	MAT-00855	BMT-E.10	BurmaTeakWoodscantlings:2.0to3.0M	1cum	**173298**
121	MAT-00856	BMT-E.11	BurmaTeakWoodscantlings:above 3.0M	1cum	**182272**
122	MAT-00857	BMT-E.12	Burma Teak Wood Plancks: anythickness	1cum	**197369**
		IV.SUB-SECTION	**ASSAMTEAK WOOD**		
123	MAT-00858	BMT-E.13	AssamTeakWoodscantlings:anylength	1cum	**47000**
124	MAT-00859	BMT-E.14	Assam Teak Wood Plancks: anythickness	1cum	**68000**
		V.SUB-SECTION	**SAL/COUNTRYWOOD**		
125	MAT-00860	BMT-E.15	SalWoodscantlings:anylength	1cum	**48500**
126	MAT-00861	BMT-E.16	SalWoodPlancks:anythickness	1cum	**61000**
		VI.SUB-SECTION	**ROOFINGMATERIAL**		
127	MAT-00862	BMT-E.17	A.CsheetCorrugated 6mmthick	1sqm	**214**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
128	MAT-00863	BMT-E.18	A.Csheetplain 4mmthick	1sqm	**153**
129	MAT-00864	BMT-E.19	A.Csheetplain 6mmthick	1sqm	**160**
130	MAT-00865	BMT-E.20	PlainorCorrugatedGalvanizedironsheets as per IS 277 (0.1 mm to 0.8 mmthickness)	1kg	**68**
131	MAT-00866	BMT-E.21	SupplyofUVresistantmulti-wallpolycarbonate sheets for roofing of anycolour - 6mmthick	1 Sqm	**1200**
132	MAT-00867	BMT-E.22	Aluminium universal glazing set 40 mmwideforjointingandfixingpolycarbonatesheets	1RM	**114**
133	MAT-05341	BMT-E.23	Supplyof UV resistant multi - wallpolycarbonatesheetsforroofingofanycolour -10mmthick.	1 Sqm	**1350**
		F.SECTION	**STEELMATERIALS** *(Landing cost – including loading, cost of conveyance,unloading)*		
		I.SUB-SECTION	**MILDSTEEL MATERIALS**		
134	MAT-00895	BMT-F.29	Supply & fixing of Rolling shutter madeof 80 x 1.25 mm machine rolled CRCAlaths, interlocked together through theirentire length and jointed together at theendsbyend-locks,mountedonspecially designed pipe shaft of 50mmdia nominal bore MS B class pipe withbrackets,plates,guidechannels,stoppers,bottomlockingplatesandarrangementsforinside&outsidelockingwithpush-pulloperationsincluding cost of hood cover and springscomplete,paintedwithonecoatofapprovedsteelprimer,locks,ballbearings, allaccessoriesetc completefor finished item of work as per specialspn:1108	1 Sqm	**3500**
135	MAT-00896	BMT-F.30	Supplying&fixingcollapsiblesteelshutters withvertical,doublechannelof 20 x10x2 mm of 100 mm centre ,Bracers with flat iron 40x40x6 mm with38 mm dia steel pulleys, the top, bottomandsideverticalframesofthecollapsiblegatewith65x65mmx8mmMS Angle and middle guide rail at siteheight with 65mmx8mm MS flat for thepulleys to guide and fixed with	1 Sqm	**3050**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			necessary hold fasts, bolts, nuts, rivets,lockingarrangements,stoppers,handles, all accessories all fixtures andpainted with one coat of approved steelprimer etc., complete for finished item ofworkas per specialspn1105		
136	MAT-00875	BMT-F.09	Expanded metal sheets as per IS-412-1962-LightWeight-25mm(SWM)x75mm (LWM)3.25 mm Wide and 1.25 mmthick	1 Sqm	**140**
137	MAT-00876	BMT-F.10	Expanded metal sheets as per IS-412-1962-LightWeight-20mm(SWM)x60mm(LWM) 2.50 mm Wide and 1.25 mmthick	1 Sqm	**140**
138	MAT-00877	BMT-F.11	Expanded metal sheets as per IS-412-1962-LightWeight-20mm(SWM)x50mm(LWM) 2.50 mm Wide and 1.25 mmthick	1 Sqm	**140**
139	MAT-00878	BMT-F.12	Expanded metal sheets as per IS-412-1962- Medium Weight-25 mm(SWM)x75mm(LWM) 3.25 mm Wide and 1.60 mmthick	1 Sqm	**195**
140	MAT-00879	BMT-F.13	Expanded metal sheets as per IS-412-1962- Medium Weight-20 mm(SWM)x60mm(LWM) 2.50 mm Wide and 1.60 mmthick	1 Sqm	**195**
141	MAT-00880	BMT-F.14	Expanded metal sheets as per IS-412-1962- Medium Weight-20 mm(SWM)x50mm(LWM) 2.50 mm Wide and 1.60 mmthick	1 Sqm	**195**
142	MAT-00881	BMT-F.15	Expanded metal sheets as per IS-412-1962- Heavy Weight-25 mm(SWM)x75mm(LWM) 3.25 mm Wide and 2.24 mmthick	1 Sqm	**220**
143	MAT-00882	BMT-F.16	Expanded metal sheets as per IS-412-1962- Heavy Weight-20 mm(SWM)x60mm(LWM) 2.50 mm Wide and 2.24 mmthick	1 Sqm	**220**
144	MAT-00883	BMT-F.17	Expanded metal sheets as per IS-412-1962- Heavy Weight-20 mm(SWM)x50mm(LWM) 2.50 mm Wide and 2.24 mmthick	1 Sqm	**220**
145	MAT-00894	BMT-F.28	Rabbitwiremesh(chickenmesh)ofnotlessthan30gauge	1 Sqm	**18.5**
146	MAT-00869	BMT-F.02	CountryNails	1Kg	**63**
147	MAT-00870	BMT-F.03	WireNails	1Kg	**63**
148	MAT-00871	BMT-F.04	Mild Steel Tubes & pipes of alldiameters asperIS-1161	1Kg	**66**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
		II.SUB-SECTION	**GALVANIZEDSTEELMATERIALS**		
149	MAT-00873	BMT-F.07	Supplying Galvanized Steel Barbed wireconforming to IS 278 - 1978 : Type A -IOWA Type Designation as per standardspecification	1Kg	**88**
150	MAT-00874	BMT-F.08	Supplying Galvanized Steel Barbed wireconforming to IS 278 - 1978 : Type B - GliddenTypeDesignationasperstandards pecification	1Kg	**86**
151	MAT-00884	BMT-F.18	GalvanizedIronflyproofwiremeshofnot less than20 gauge	1 Sqm	**240**
152	MAT-00886	BMT-F.20	Hot dipped Galvanised Iron Chain linkmesh 8 gauge- (4.0 mm) as per IS:2721-1979:2"x2"(50mmx50mm)-8 Gauge	1 Sqm	**440**
153	MAT-00887	BMT-F.21	Hot dipped Galvanised Iron Chain linkmesh 8 gauge- (4.0 mm) as per IS:2721-1979:2½"x2½"(63mmx63mm) -8Gauge	1 Sqm	**390**
154	MAT-00888	BMT-F.22	Hot dipped Galvanised Iron Chain linkmesh 8 gauge- (4.0 mm) as per IS:2721-1979:3"x3"(76mmx76mm)-8 Gauge	1 Sqm	**345**
155	MAT-00889	BMT-F.23	Hot dipped Galvanised Iron Chain linkmesh 8 gauge- (4.0 mm) as per IS:2721-1979:4"x4"(102mmx102mm)-8Gauge	1 Sqm	**240**
156	MAT-00890	BMT-F.24	Hot dipped Galvanised Iron Chain linkmesh 8 gauge- (4.0 mm) as per IS:2721-1979-PVCCoated-2"x2"(50 mmx 50mm)-8Gauge	1 Sqm	**580**
157	MAT-00891	BMT-F.25	Hot dipped Galvanised Iron Chain linkmesh 8 gauge- (4.0 mm) as per IS:2721-1979-PVCCoated-2½"x2½"(63 mmx 63mm)-8Gauge	1 Sqm	**480**
158	MAT-00892	BMT-F.26	Hot dipped Galvanised Iron Chain linkmesh 8 gauge- (4.0 mm) as per IS:2721-1979-PVCCoated-3"x3"(76 mmx76mm) -8Gauge	1 Sqm	**400**
159	MAT-00893	BMT-F.27	Hot dipped Galvanised Iron Chain linkmesh 8 gauge- (4.0 mm) as per IS:2721-1979-PVCCoated-4"x4"(102 mmx102mm)-8Gauge	1 Sqm	**310**
		III.SUB-SECTION	**STAINLESSSTEELMATERIALS**		
160	MAT-00872	BMT-F.06	StainlessSteelTubes,sections,plates,sheets&pipesofallsizes&diameters	1Kg	**360**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			for-304 Grade		
161	MAT-00885	BMT-F.19	Stainlesssteelflyproofwire meshofnot less than20 gauge	1 Sqm	**490**
162 to 170		BMT-F.32 Ato H	**ITEMDELETED**		
		Note:Items BMT-F.01 , BMT-F.31are removed in thesectionFand are broughtasnewitemsinthe SectionNasBMT-N.80 and BMT-N.81.			
		G.SECTION	**FIXTURESFOR DOORS& WINDOWS**		
		I.SUB-SECTION	**TOWERBOLTS**		
171	MAT-00906	BMT-G.01	BrassTowerBolt-10mmBolt(IS:204)100 mmLong	Each	**150**
172	MAT-00907	BMT-G.02	BrassTowerBolt-10mmBolt(IS:204)150 mmLong	Each	**231**
173	MAT-00908	BMT-G.03	BrassTowerBolt-10mmBolt(IS:204)200 mmLong	Each	**317**
174	MAT-00909	BMT-G.04	BrassTowerBolt-10mmBolt(IS:204)250 mmLong	Each	**365**
175	MAT-00910	BMT-G.05	BrassTowerBolt-10mmBolt(IS:204)300 mmLong	Each	**449**
176	MAT-00911	BMT-G.06	Aluminium Tower Bolt-10 mm Bolt(IS:204)75mmLong	Each	**56**
177	MAT-00912	BMT-G.07	Aluminium Tower Bolt-10 mm Bolt(IS:204)100mmLong	Each	**69**
178	MAT-00913	BMT-G.08	Aluminium Tower Bolt-10 mm Bolt(IS:204)150mmLong	Each	**84**
179	MAT-00914	BMT-G.09	Aluminium Tower Bolt-10 mm Bolt(IS:204)200mmLong	Each	**103**
180	MAT-00915	BMT-G.10	Aluminium Tower Bolt-10 mm Bolt(IS:204)250mmLong	Each	**124**
181	MAT-00916	BMT-G.11	Aluminium Tower Bolt-10 mm Bolt(IS:204)300mmLong	Each	**144**
182	MAT-00917	BMT-G.12	Aluminium Tower Bolt-10 mm Bolt(IS:204)350mmLong	Each	**387**
183	MAT-00918	BMT-G.13	Aluminium Tower Bolt-10 mm Bolt(IS:204)450mmLong	Each	**490**
184	MAT-00919	BMT-G.14	MS-PowderCoatedTowerBolt-10mmBolt(IS:204)100 mmLong	Each	**24**
185	MAT-00920	BMT-G.15	MS-PowderCoatedTowerBolt-10mmBolt(IS:204)150 mmLong	Each	**35**
186	MAT-00921	BMT-G.16	MS-PowderCoatedTowerBolt-10mmBolt(IS:204)200 mmLong	Each	**51**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
187	MAT-00922	BMT-G.17	MS-PowderCoatedTowerBolt-10mmBolt(IS:204)250 mmLong	Each	**68**
188	MAT-00923	BMT-G.18	MS-PowderCoatedTowerBolt-10mmBolt(IS:204)300 mmLong	Each	**85**
		II.SUB-SECTION	**HINGES**		
189	MAT-00924	BMT-G.19	BrassButthinges(IS:205)- 75mmLong	Each	**67**
190	MAT-00925	BMT-G.20	BrassButthinges(IS:205)-100mmLong	Each	**203**
191	MAT-00926	BMT-G.21	BrassButthinges(IS:205)-125mmLong	Each	**246**
192	MAT-00927	BMT-G.22	BrassButthinges(IS:205)-150mmLong	Each	**324**
193	MAT-00928	BMT-G.23	AluminiumButthinges(IS:205)-75mmLong	Each	**81**
194	MAT-00929	BMT-G.24	AluminiumButthinges(IS:205)-100mmLong	Each	**97**
195	MAT-00930	BMT-G.25	AluminiumButthinges(IS:205)-125mmLong	Each	**117**
196	MAT-00931	BMT-G.26	AluminiumButthinges(IS:205)-150mmLong	Each	**120**
197	MAT-00932	BMT-G.27	MS-Powder Coated Butt hinges(IS:205)-75mmLong	Each	**11**
198	MAT-00933	BMT-G.28	MS-Powder Coated Butt hinges(IS:205)-100mmLong	Each	**20**
199	MAT-00934	BMT-G.29	MS-Powder Coated Butt hinges(IS:205)-125mmLong	Each	**31**
200	MAT-00935	BMT-G.30	MS-Powder Coated Butt hinges(IS:205)-150mmLong	Each	**39**
201		BMT-G.80	Providing and fixing **stainless steel(SS-304grade)**frictionhingestotheside/top hung uPVC windows, ofapproved quality, with necessarystainless steel screws etc. as perdirection ofEngineer-in-charge.		
202	MAT-05342	BMT-G.80.A	200x19x1.9mm	Each	270
203	MAT-05343	BMT-G.80.B	250x19x1.9mm	Each	300
204	MAT-05344	BMT-G.80.C	300x19x1.9mm	Each	317
205	MAT-05345	BMT-G.80.D	350x19x1.9mm	Each	438
206	MAT-05346	BMT-G.80.E	400x19x1.9mm	Each	461
		III.SUB-SECTION	**DOORHANDLES**		
207	MAT-00936	BMT-G.31	AluminiumDoorHandles(IS:208)75	Each	**54**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			mmLong		
208	MAT-00937	BMT-G.32	AluminiumDoorHandles(IS:208)100mmLong	Each	**62**
209	MAT-00938	BMT-G.33	AluminiumDoorHandles(IS:208)125mmLong	Each	**92**
210	MAT-00939	BMT-G.34	AluminiumDoorHandles(IS:208)150mmLong	Each	**103**
211	MAT-00940	BMT-G.35	MS-Powder Coated Door Handles(IS:208)125mmLong	Each	**32**
212	MAT-00941	BMT-G.36	MS-Powder Coated Door Handles(IS:208)150mmLong	Each	**45**
213	MAT-00963	BMT-G.58	Brassfancyhandles150mm	Each	**299**
214	MAT-00964	BMT-G.59	Brassfancyhandles200mm	Each	**404**
215	MAT-00965	BMT-G.60	Brassfancyhandles250mm	Each	**728**
216	MAT-00966	BMT-G.61	Brassfancyhandles300mm	Each	**930**
217	MAT-00967	BMT-G.62	Brassfancyhandles450mm	Each	**1454**
218	MAT-00977	BMT-G.72	KeylesslocksetfortoiletdoorswithCPorPC knobhandles(completeset)	Each	**310**
219	MAT-00978	BMT-G.73	Keylesslocksetfortoiletdoorswithbrassknobhandles	Each	**819**
220	MAT-05347	BMT-G.81	Providing and fixing casement handlemade of zinc alloyed (white powdercoated)foruPVCcasementwindow withnecessary screwsetc.complete.	Each	**187**
		IV..SUB-SECTION	**ALDROPS**		
221	MAT-00942	BMT-G.37	BrassAldrop(IS:2681) 300mmlong	Each	**1087**
222	MAT-00943	BMT-G.38	BrassAldrop(IS:2681) 350mmlong	Each	**2094**
223	MAT-00944	BMT-G.39	BrassAldrop(IS:2681) 450mmlong	Each	**2982**
224	MAT-00945	BMT-G.40	AluminiumAldrop(IS:2681)200mmlong	Each	**240**
225	MAT-00946	BMT-G.41	AluminiumAldrop(IS:2681)250mmlong	Each	**284**
226	MAT-00947	BMT-G.42	AluminiumAldrop(IS:2681)300mmlong	Each	**308**
227	MAT-00948	BMT-G.43	MS-PowderCoatedAldrop(IS:2681)200mmlong	Each	**98**
228	MAT-00949	BMT-G.44	MS-PowderCoatedAldrop(IS:2681)250mmlong	Each	**129**
229	MAT-00950	BMT-G.45	MS-PowderCoatedAldrop(IS:2681)300mmlong	Each	**154**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
		V.SUB-SECTION	**LATCHES**		
230	MAT-00953	BMT-G.48	AluminiumFlatLatches:200mmlong	Each	**117**
231	MAT-00954	BMT-G.49	AluminiumFlatLatches:250mmlong	Each	**131**
232	MAT-00955	BMT-G.50	AluminiumFlatLatches:300mmlong	Each	**144**
233	MAT-00956	BMT-G.51	MS-PowderCoatedFlatLatches:250mm long	Each	**55**
234	MAT-00957	BMT-G.52	MS-PowderCoatedFlatLatches:300mm long	Each	**70**
235	MAT-00973	BMT-G.68	Brasslatchheavy300mm	Each	**573**
236	MAT-00974	BMT-G.69	Brasslatchheavy350mm	Each	**658**
237	MAT-00975	BMT-G.70	Brasslatchheavy450mm	Each	**826**
		VI..SUB-SECTION	**DOORCLOSURES**		
238	MAT-00968	BMT-G.63	ProvidingandfixingCastIronBodyBottle Type Hydraulic Door Closer (IS:3564)withdoublespeedadjustment,with necessary accessories and screwsetc.complete	Each	**876**
239	MAT-00979	BMT-G.74	Providing and fixing Aluminium ExtrudedSectionBody Tubular Type HydraulicDoorCloser(IS:3564)withdoublespeedadjustmentwithnecessaryaccessoriesandscrewsetc.complete(Type-1: forwidthofdoorsup to700mm)	Each	**1065**
240	MAT-00980	BMT-G.75	Providing and fixing Aluminium ExtrudedSectionBody Tubular Type HydraulicDoorCloser(IS:3564)withdoublespeedadjustmentwithnecessaryaccessoriesandscrewsetc.complete(Type-2: for width of doors 701 to 850mm)	Each	**1197**
241	MAT-00981	BMT-G.76	Providing and fixing Aluminium ExtrudedSectionBody Tubular Type HydraulicDoorCloser(IS:3564)withdoublespeedadjustmentwithnecessaryaccessoriesandscrewsetc.complete(Type-3: for width of doors 851 to 1000mm)	Each	**1256**
		VII.SUB-SECTION	**FLOORSPRINGS**		
242	MAT-00969	BMT-G.64	DoubleactionStainlesssteelcoverplate and cast body iron floor spring (IS6315-Table-1)	Each	**1751**
243	MAT-00970	BMT-G.65	DoubleactionBrasscoverplateandcastbrassbodyfloorspring(IS6315-Table-1)	Each	**4153**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
244	MAT-00982	BMT-G.77	Providing and fixing double action brasscasthydraulicfloorspring(IS:6315-Table1)fordoorsincludingcostofcutting floors as required, embedding infloors and S.S./ Brass cover plates withbrass pivot and single piece M.S. Sheetouter box with slide plate etc. complete(doorweightcapacityup to 130kgs)	Each	**3537**
245	MAT-00983	BMT-G.78	Providing and fixing double action brasscasthydraulicfloorspring(IS:6315-Table1)fordoorsincludingcostofcutting floors as required, embedding infloors and S.S.cover plates with brasspivot and single piece M.S. Sheet outerbox with slide plate etc. complete (doorweightcapacity upto 80kgs)	Each	**2555**
246	MAT-00984	BMT-G.79	Providingof brass cast body FloorSpringIS:6315sleekinsizewiththe S.S. / Brass Cover plates of Length 320mm x Breadth 130 mm size along withtheTopPatch,BottomPatch,DoorLockand Pivot with Double Cylinder etc.completeforHeavydutyGlassdoors.	Each	**10805**
		VIII	**MORTICELOCKS**		
247	MAT-00971	BMT-G.66	Heavydutymortiselock6/7levers(IS:2209) withPCorCPhandlescompleteset	Each	**792**
248	MAT-00972	BMT-G.67	Heavydutymortiselock6/7levers(IS:2209) with brassheavyhandles	Each	**2036**
		IX.SUB-SECTION	**OTHERACCESSORIES**		
249	MAT-00958	BMT-G.53	MS-PowderCoated-Door Stoppers	Each	**45**
250	MAT-00962	BMT-G.57	Heavyduty AluminiumDoorstopper	Each	**53**
251	MAT-00951	BMT-G.46	BrassDoorStoppers	Each	**168**
252	MAT-00976	BMT-G.71	Frictionstayhingesforwindows	Each	**91**
253	MAT-00961	BMT-G.56	DeluxewindowstayAluminium	Each	**122**
254	MAT-00952	BMT-G.47	BrassWindowsStay	Each	**181**
255	MAT-00959	BMT-G.54	Supply&fixingdraperyrods(25.4mm)1"x21GPowdercoatedwith PVCrings	RM	**108**
256	MAT-00960	BMT-G.55	Supply&fixingdraperybracket-brasspowdercoated	pair	**402**
257	MAT-05348	BMT-G.82	Providingandfixingzincalloyed(whitepowdercoated)touch lock for uPVCslidingwindowwithnecessaryscrewsetc.Complete	Each	154

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
258	MAT-05349	BMT-G.83	ProvidingandfixingsteelrollerforuPVCsliding windowwithnecessary screwsetc.complete.	Each	88
259	MAT-05350	BMT-G.84	ProvidingandfixingsteelrollerforuPVCsliding doorwithnecessary screwsetc.complete.	Each	140
260	MAT-05351	BMT-G.85	Providingandfixingsteel(whitepowercoated)crescent lockforuPVC slidingwindow/doorwithnecessaryscrewsetc.complete.	Each	167
		H.SECTION	**WATERPROOFINGCHEMICALS&ADMIXTURES** *Literature for usage / application ofconstruction/waterproofingmaterials, epoxies etc, may be obtained frommanufacturers.*		
261 to 325 except 279		**BMT-H.01 to 65except BMT-H.37**	**ITEMSDELETED**		
279	MAT-01021	**BMT-H.37**	**ITEMDELETED**		
326	MAT-05352	BMT-H.66	PreconstructionAntitermiteisaprocessinwhichchemicaltoxictosubterrean termites is apply/ inject intosoilduringearlystageofbuildingConstruction 2.TreatementofsoilBeneaththebuildingandaroundthefoundationsconduct and chemical use as per **BIS -IS6313(Part-2)2013**codespecification&CIBRCregisteredtermiticidewhichcreatesacontinuouschemicalbarrierbeneaththebuildingwhichkillsorrepelsterminates&impervioustotremite entry	1 Sqm	**150**
			3.Imidacloprid30.5%SC(IS63131)dissolve 2.1 Ml/1 liter of water and applyemulsion/solution@7.5Litres/Squaremeter (Sqm) of internal, external verticalsurfaceofthecolums,plinthbeams(Backfilling)wallsandfloorjunction,external perimeters, along reatining wall@5.0Liters/Sqmofthehorizontalsurfaceofbasementtopsurfaceofthe		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			basementfillingbelowflooringbed(Plinth) & @ 2.0 Litres/ Line meter atexpansion joints. The substructure of adepthof500mmaroundcoulmns&300m mdeeparoundplinthbeams,basements & floor filling area includingexcavationchannelalongthewall &rodding etc. **cost & Conveyance of allmaterialstothesite,costoflabourfors parying,roddingetc.completefor furnished item of work as per theapproval oftheEngineer-in-charge**		
327		BMT-H.67	**ITEMDELETED**		
		I.SUB-SECTION	**REPAIRINGANDTREATMENT WORKS**		
		BMT-H.68	**SURFACEPREPARATION**		
			Cleaningof thesurface: ForWaterproofingtreatment		
328	MAT-05353	BMT-H.68.A	(Ifthe surface issound & hardCondition) The surface mustbe cleanand sound duly removingof exisitingtretamentsclean from dirt, dustandothercontaminationsby powergrindingwirebrushing,air blower&jetwatercleaing.	Sqm	**60**
329	MAT-05354	BMT-H.68.B	(Ifthe surfaceis detoriatedordamage / existing tiles or block laying) Chippingwith pneumatic powerchiselingequipmentanduntiltoahci evethehardmotherconcretesurface.Duly removing of debris, cleaning of thesurfacefromdirt,dustandotherforeign matters&waterjetcleaning.	Sqm	**150**
330	MAT-05355	BMT-H.68.C	if the surface has existing damagedbituminous felt/ APP membrane.Chipping and removing of existingbituminoustarfelt / membrane withchiseling equipments,grinding / wirebrusing the surface dulyremoving thefeltcompletely. Duly removing ofdebris,cleaningofthesurfacefromdirt,d ust and otherforeign matters & waterjetcleaning.	Sqm	**100**
			SPECIALISED CHEMICALWATERPROOFINGTR EATMENTSFORTERRACE		
			WHERVERFLOORINGSURFACEISHA VING MAJOR HAIR LINE CRACKSDEVELOPED,SEVERELEAK AGES		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			TAKENPLACEANDREQUIREDTOREDUCE THE ROOMTEMPERATURES- SELF ASSESSEDTREATMENTSTOIDENTIIFYEACHLAYER OF TREATMENTS :REFERTHERATESFORCLEANINGANDCRACK FILLINGUNDER THE HEADOF THE WORKS Item Code BMT-H.68SURFACEPREPARATIONSUBHEADING:CLEANINGOFTHESURFACEFORWATERPROOFINGTREATMENT.		
331(a)	MAT-05356	BMT-H.69	SPECIALISEDFIVELAYERSYSTEMOF WATERPROOFINGTREATMENT TO THETERRACE WITH Roofcare-prc5 Systems or equivalent (ROOFCAREPRC 5 (Armstrong) / ZORICOAT PFC 5(PMCC)/POWERSAC5L(EBT)/WATER SHIELD5LWC a). IstLayerBlackcolouredchemcialtreatment :Providngand application ofonecoatofHighbonding,flexiblebitumin ouspolyurethaneblendedbituminous coating with–Roofcare prc5 systems Confiming to ASTM-G 154 -2000 or equavalentIst Layer dilutingwith waterat 1 : 1 ratio as a primer coatataconsumptionof 200mlperSqm. b). IInd Layer :Providing and laying ofFibre Mesh 40 GSM,with1 Mtrwidthand50mmoverlapontheprimedsurface. c). IIIrd Layer Grey coloured coating :ProvidingandapplicationofonecoatofAcrylicrubberizedelastomericflexible waterproofgrey coating with–Roofcareprc5systemsASTM-C836orequavalentorequavalentdilutingwith 50% of water at a consumption of400mlper Sqm. d) IVthLayer white colured coating :Providing and application of one coat ofHigh solid, cold applied, Fibre reinforcedacrylicelastomericwaterproofmembrane off white coating –Roofcareprc 5 systemsConfiming to ASTM-G154 -2000 or equavalentcoating (addthe waterupto 200ml) (Consumption of350mlperSqm). e) VthLayersuperwhitereflectivecoating :Applicationofonecoatof100%pure acrylic solar reflectivepurewhitecoatingwithRoofcareprc5	Sqm	**529**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			systems Confirming to ASTM -C 297 orequavalentsolarrefectivecoatingdiluting with 20% of water (Consumptionof300mlperSqm). Note: THE ABOVE TREATMENT WILLBEGUARANTEEDFOR5YEARS		
331 (b)	MAT-08738	BMT-H.69 (b)	SPECIALISEDFIVELAYERSYSTEMOFWATERPROOFINGTREATMENTTOTHETERRACEWITHMIXGUARDHR5 System. Providingandlayingfivelayerswaterproofing cum heat reflective treatment(MIXGUARD HR5 or equivalent) over theold/newroofslab/terrace,allasdirectedby Department Engineer-in-charge with thefollowingspecificationandshouldbecomplainwiththefollowingtechnicalparametersforthe system- Density:1.3Gm/cc,Solidscontent:68%±2%by weight, Elongation at break ASTM D 638:200%(forthesystem),Adhesiontosubstrate ASTMD4541:>1.5N/mm2,Water penetration DIN 1048: no leak at 7bars,TearresistanceASTMD1004-76:17N/mm2, Tensile strength ASTM D 412-87:6.0N/mm2 a)FirstLayer-SupplyandApplypenetrativecumbondingprimerasbaseprimercumsealercoat usingMIXPRIMEAC100orequivalentmodified withwaterand cement at the ratio 2:1:3 (MIXPRIMEAC 100 : water : cement) by volume with aslow speed mixer machine.This compoundshall be applied with sufficient thickness tocover the holes/pores/cracks @ 1.000 Liter /SQM(0.350LtofMIXPRIMEAC100/ SQM)andtherawprimershouldbecomplain with ASTM 4541 and the Solidcontent49%±2% b)SecondLayer–Supplyandapplyof2x2mmweldedwithalkaline resistantcoated /non-woven40GsmvergingfibermeshMIXMATGFM50orequivalentforaminimum over lap of 100 mm embedded intheprimercoat c)ThirdLayer-Supplyandapplyofbondingcumwatertightacrylichighviscous white primerMIXPRIME AC orequivalent @ 0.250 Kg / SQM (dilution ormodificationnotrecommended)should	Sq.m	529

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			be complainwithDensity:1.1gm/cc,Solidscontent :50%±2%byweight,Elongationat break ASTM D 638: >300%, Adhesion tosubstrateASTMD4541:>1N/mm2, TensilestrengthASTMD638:>1.5N/mm2, Reduction in chloride ion ingress:94%@28 days d) Fourth Layer – Supply and apply of highelastomericacrylicwaterproofingcumweatherproofhighviscouswhiteliquidmembrane MIXGUARD HR or equivalent@ 0.500 Kg / SQM (dilution or modificationnot recommended) should be complain withDensity: 1.30 gm/cc , Solids content: 68% ±2% by weight, Elongation at break ASTM D638: 400%, Tensile strength ASTM D 412:1.8N/mm2, Adhesion to substrate ASTM D4541:>1N/mm2,WaterpenetrationDIN1048: no leak at 7 bars (+ve side), WatervaportransmissionASTME96:19g/m2/day, Crack bridging ASTM C836:No cracksupto2mmthick. E) Fifth Layer - Supply and apply of fiberreinforcedflexible highbridepure acrylicmodifiedwaterproofing cum heat reflectivehighviscouswhiteliquidmembraneMIXGUARDHRXtraorequivalent@ 0.500 Kg / SQM (dilution or modificationnotrecommended)Density:1.3gm/cc Solidscontent:68%±2%byweight,Elongation at break ASTM D 638: 200% ,Adhesion to substrate ASTM D 4541: >1.3N/mm2,WaterpenetrationDIN1048:noleakat7bars,TearresistanceASTMD1004-76: 15N/mm2 , Tensile strength ATMD412-87:3.0N/mm2,Solarreflectance– ASTMG173– 92%,WatervaportransmissionASTM E 96 – 19 Kg / M^2 /day. Note: - 1) No dilution or modificationrecommendedforitemNo.b, c,dande. 2)Allmaterialsshouldbeprocured asperthe consumption with respect of the workorder. 3)Theapplication shouldbecarried outbyan approvedagency. 4) The contractor should provide 5 yearsmaterialwarranteefromtheManufacturer and 5 year warrantee from the applicator orcombined		
			WHEREVERFLOORINGSURFACEIS		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			HAVINGHAIRLINECRACKSDEVELOPED,SEVERELEAKAGESANDFOUNDVERYSLIGHTLYMORTARDEBONDED WITHORIGINAL SLAB - TAKEN PLACE:REFER THE RATES FOR CLEANINGAND CRACK FILLINGUNDERTHEHEADOFTHEWORKSRAINSEALFRC SPECIALISED HIGH STRENGTHFIBREREINFORCEDACRYLICELASTOMERICANDHEATRESISTANTLIQUIDMEMBRANE COATINGCHEMICALSConfirmedASTM C 836/89A & ASTMC 297 FORTERRACE.		
332	MAT-05357	BMT-H.70	SPECIALISEDHIGHSTRENGTHCELLULOSEFIBREREINFORCEDACRYLICELASTOMERICLIQUIDMEMBRANE COATING FOR TERRACE : a). Providingandapplicationofonecoat ofHigh Solid,Cold applied AcrylicElastomericLiquid Membrane Coatingwith– RAINSEAL(Armstrong)/POWERnCOATEWC(EBT)/DECKGUARD E 2000 (Fosroc) /ZORICOATEWC(PMCC)/SIKAGARD550W/WATERSHIELD EWC 600 diluting with waterat 1 : 0.50ratio as a primer coat at a consumptionof200mlperSqm. b). Providing and laying ofNon wovenpolysterreinforcedfibremeshof40GSM,with1 Mtrwidthand 50mmoverlapon theprimedsurface. c) Providing and application of onecoatofHighstrengthcellulosefibrereinforcedAcrylicElastomericLiquidMembranecoatingwith- RAINSEALCFR(Armstrong/ZORICOATCF(PMCC) / POWER n COAT CR (EBT)WATERSHIELDFLEXCR/FIBRERE INFORCED ACRYLIC ELASTOMERICCOATINGS(Fosroc)diluting with waterat 20%as a basecoatapplicationataconsumptionof400mlperSqm.	Sqm	**510**
			WHERVERFLOORINGSURFACEISHAVINGHAIRLINECRACKSDEVELOPED, SEVERELEAKAGESANDFOUNDSOMEPLACESMORTARDEBONDEDWITH ORGINALSLAB-TAKENPLACE:		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			REFER THE RATES FOR CLEANINGAND CRACK FILLINGUNDERTHEHEADOFTHEWORKSBMT-H.68© andBMT-H.83chemicalcomplieswithASTMC297.		
333(a)	MAT-05358	BMT-H.71	SPECIALISED HIGHPERFORMANCEACRYLICPOLYMERMODIFIEDELASTOMERIC CEMENTITIOUS WATERPROOFCOATINGTOTHETERRACE a). Providingandapplicationofonecoatof HighperformanceAcrylatepenetrativewaterbarrierprimer– ROOFBONDBCS(Armstrong)/ZORIBOND BCS(PMCC) / POWER nPENETRATE(EBT)/WATERSHIELDCP/DECKGUARDCP(Fosroc) /SIKAGARD705 L(Sika)diluting withwater at 1 : 0.50 ratio as a primer coatataconsumptionof 200mlperSqm. b). Providing and laying ofNon wovenpolysterreinforcedfibremeshof40GSM,with1 Mtrwidthand 50mmoverlapon theprimedsurface. c) Providing and application of onecoatof Two part system of high performanceacrylicpolymermodifiedelastomericcementitiouswaterproofcoatingROOFBOND RFX (Armstrong) /POWERnCOATRFX(EBT)/BRUSHBOND RFX (Fosroc)/ZORIBONDRFX(PMCC)/WATERSHIELDRFX/SIKAGARD550 U 2K (Sika)mixingofpowderandliquidas perpacking at 1:2 ratio.(addthewaterupto200ml)ataconsumptionrate of300 Grams mix. d).ProvidingandapplicationofonecoatofTwopartssystemfibreReinforced Acrylic Cementitious Coatingswith– ROOFBONDFRC(Armstrong) ZORIBOND FRC (PMCC) /POWERnBONDFRC(EBT)/WATERSHIELDBONDFR/Fosroc mixingofpowder andliquidas perpacking at 1:2 ratio(add the water upto200ml) ata consumption rate of300Gramsmix.	Sqm	**475**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
333(b)	MAT-08754	BMT-H.71(b)	SPECIALISED HIGH PERFORMANCEACRYLIC POLYMER MODIFIEDELASTOMERIC CEMENTITIOUSWATERPROOFINGSYSTEMCOATINGTO THE WET AREA / TOILET / BATHROOM. a)FirstLayer-Supply andApplypenetrative cum bonding primer as baseprimer cum sealer coat using MIXPRIMEAC100 or equivalent modified with waterand cement at the ratio 2:1:3 (MIXPRIMEAC 100 : water : cement) by volume with aslow speed mixer machine.This compoundshall be applied with sufficient thickness tocovertheholes/pores/cracks@1.000Liter/SQM(0.350Ltof MIXPRIME AC100 / SQM) and the raw primer should becomplain with ASTM 4541 and the Solidcontent49%+2% b) Second Layer – Supply and apply of 2 x2mmweldedwithalkalineresistantcoated / non-woven 40 Gsm verging fiber meshMIXMAT GFM 50 or equivalent for aminimumoverlapof100mmembeddedintheprimercoat c) Third Layer -Supply and apply of firstcoat of two component (Powder + Liquid)systemofhighperformanceacrylicpolymermodified elastomeric cementitiouswaterproofing system MIXGUARD ACorequivalent @ 1.000 Kg / SQM (mix thepowder and liquid with the help of a slowspeed mixer for a period of 2 to 3 minutesup to get a homogeneous mix-dilution ormodification not recommended) should becomplain with BS1881 Part51983(ISAT 476 Part6),DIN1048Part51991,BSEN 12390-82000,ASTM D 412-92 d) Fourth Layer –Supply and apply ofsecond coat of two component (Powder +Liquid)systemofhighperformanceacrylicpolymermodifiedelastomericcementitiouswaterproofingsystemMIXGUARDACorequivalent @ 1.000 Kg / SQM (mix thepowder and liquid with the help of a slowspeed mixer for a period of 2 to 3 minutesup to get a homogeneous mix- dilution ormodification not recommended) should becomplainwith BS1881 Part51983(ISAT	Sq.m	475

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			476 Part6),DIN1048Part51991,BSEN 12390-82000,ASTM D 412-92. Note: - 1) No dilution or modificationrecommendedforitemNos.b,c,dande. 2)Allmaterialsshouldbeprocured asperthe consumption with respect of the workorder. 3)Theapplication shouldbecarried outbyan approvedagency. 4) The contractor should provide 5 yearsmaterial warrantee from the Manufacturerand5yearwarranteefromtheapplicatororcombined		
334	MAT-05359	BMT-H.72	*WHERVER FLOORING SURFACE ISHAVING MAJOR HAIR LINE CRACKSDEVELOPED,SEVERE LEAKAGESTAKEN PLACE AND REQUIRED TOREDUCE THE ROOMTEMPERATURES-SELFASSESSEDTREATMENTS TO IDENTIIFY EACHLAYER OF TREATMENTS :REFERTHE RATES FOR CLEANING ANDCRACK FILLINGUNDER THE HEADOFTHEWORKS*	Sqm	**540**
			a). Providngand application of one coatofHighbonding,flexiblebituminouspolyurethane blended black coating withROOFCARE PU (Armstrong) /POWERnCOATPU(EBT)/NITOBONDPOLYURETHANE BLENDED BITUMENCOAT(Fosroc)/ZORICOATPU (PMCC)/SIKALASTIC 450 L/WATERSHIELD ELASTIC 450 PU (PolyurethaneblendedBituminouswaterproofcoatingsystem)ComplieswithASTM836 - DN 1048 diluting withwaterat 1 : 1 ratio as a primer coat at aconsumptionof 200ml perSqm. b). Providing and laying ofNon wovenGEOFabric 40GSM, with 1 Mtrwidthand 50mmoverlapontheprimedsurface. c). Providingandapplicationofonecoatof Acrylic rubberizedelastomericflexible waterproofgrey coating with–RAINSEALRWC902(Armstrong)/POWERnCOATRC/ZORICOATRC(PMCC)/(Fosroc)/WATERSHIELD RC FLEXComplies with ASTM G 154 - 2000dilutingwith50%ofwateraconsumptionof 400mlperSqm. d) Providing and application of one coatofHighsolid,coldapplied,Fibrereinforced acrylic elastomeric waterproofmembraneoffwhitecoating–		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			ROOFCOATFRC(Armstrong)/ZORCOATFC (PMCC)/POWERnFRX2(EBT)/WATERSHIELDFRC/ DECKGUARD FRC (Fosroc)Complieswith ASTM C 297 (addthe waterupto200ml)(Consumptionof350mlperSqm). e)Application of one coatof100%pure acrylic solar reflectivepure whitecoatingwith-ROOFCARECOOL(Insulator) / POWER n COOL (EBT) /BRUSHBOND COOL COAT(Fosroc)/ZORIS HIELDXL(PMCC)/SIKACOOLCOAT(Sika) //WATERSHIELD COOL COAT dilutingwith20%ofwater(Consumptionof300mlperSqm).		
			FOR WATERPROOFING OFPORTABLEWATERTANKS/RESERVOIRS/SUMP/TERRACE/SIDE WALLS :REFER THE RATES FOR CLEANINGAND CRACK FILLINGUNDERTHEHEADOF THEWORKS		
335	MAT-05360	BMT-H.73	SPECIALISED ACRYLICCEMENTITIOUS ELASTOMERICWATERPROOF COATING TREATMENTComplieswithASTMC 297 : ProvidingandApplicationof two coatsofAcryliccementitiouselastomericwaterproofcoatingwith-Roofcoatorequavalentlike high elastomeric acrylicpolymermodifiedcementiitiouswaterproofsystem.	Sqm	**350**
			FOR WATERPROOFING OF TERRACE / SIDE WALLS :REFER THE RATES FOR CLEANING AND CRACK FILLING UNDER THE HEAD OF THE WORKS		
336	MAT-05361	BMT-H.74	*SPECIALISED ACRYLIC CEMENTITIOUS ELASTO MERIC WATER PROOF COATING TREATMENTComplieswithASTMC 297:* *ProvidingandApplicationof two coatsofAcryliccementitiouselastomericwaterproof coatingwith - ROOFCOAT(Armstrong)POWERnCOAT(EBT)/BRUSHBOND(Fosroc)ZORICOAT(PMCC)/SIKATOPSEAL107(Sika)/*	Sqm	**390**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			WATERSHIELD COAT PClike highelastomericacrylicpolymermodifiedcementiitiouswaterproofsystem.		
			WHERVERHIGHFLEXIBLEHIGHBONDEDNECESSARYFORWATERPROOFINGOFTERRACE/SLOPEDROOFS / ACC SHEETSetc.,FORAGUARANTEEOF5YEARSREFER THE RATES FOR CLEANINGANDCRACKFILLINGUNDERTHEHEADOF THEWORKS		
337	MAT-05362	BMT-H.75	SPECIALISEDHIGHSOLID,COLDAPPLIED,ACRYLICWATERPROOFCOATINGTOTHEEXTERNALWALLS Acrylicelastomericwaterproofexteriorcoatings Complies withASTMC 836 /89A : Providing and application of two coats ofHighsolid,coldapplied,AcrylicElastomericLiquidMembraneCoatingwith – RAINSEAL (Armstrong)/ POWERn COAT EWC (EBT) / DECKGUARDE2000(Fosroc)/ZORICOATEWC(PMCC)/SIKAGARD550W/ WATERSHIELDEWC600dilutingwith20%ofwatermixingwithrequiredcolourstainers.	Sqm	**390**
			WHEREVERREQUIREDFORWATERPROOFINGOFTERRACE/SLOPEDROOFS / ACC SHEETSetc.,FORAGUARANTEEOF3YEARSREFER THE RATES FOR CLEANINGANDCRACKFILLINGUNDERTHEHEADOF THEWORKS		
338	MAT-05363	BMT-H.76	**SPECIALISEDHIGHBONDING,FLEXIBLE BITUMINOUS POLYURETHANE BLENDEDBITUMINOUSCOATINGComplieswithASTMC 836- DN1048:** **Providngandapplicationoftwocoatsof Highbonding,flexiblebituminouspolyurethaneblendedbituminous coating with ROOFCAREPU(Armstrong)/POWERn COATPU (EBT) / NITOBOND POLYURETHANE BLENDED BITUMEN COAT (Fosroc)/ ZORICOATPU(PMCC)/SIKALASTIC450L/WATERSHIELD ELASTIC 450 PU dilutingwith20%of water.**	Sqm	**360**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			EXPANSIONJOINTTREATMENT:		
339	MAT-05364	BMT-H.77	Prepration of the surface: For existingexpansion joint treatment : Chippingoftheexisitingtreatmentsovertheexpansionjointsconcrete/brickmasonrywithpneumaticpowerchiselingequipmentanduntiltoahcievethehardmotherconcretesurface.Chippingandremovingofexisting bituminousmastic boad upto25mm deep. Duly removing of debris, cleaning of thesurface from dirt, dust and otherforeignmatters	RMT	**250**
340	MAT-05365	BMT-H.78	SPECIALISED POLYSULPHIDESEALANTTREATMENTTOTHEEXPANSIONJOINTSONTERRACE: (Size:25mmx12mm) Applicationofonecoatof-Highperformance specially designedSBRlatexpolymerbasedbondingagent– ROOFBONDSBR(Armstrong)/POWERnBONDSBR(EBT)/NITOBONDSBR(Fosroc)ZORIBONDSBR(PMCC)/SIKALATEX(Sika)WATERSHIELD BOND SBRASTM - C920-95/DIN18549TT-S-00227E or equivalentmixing with cement as permanufacturers c].Providingandapplication of Acrylic Polymer modifiedreinstatement concrete/mortaradmixturewith- ROOFCRETEAR(Armstrong)/ZORIGROUTCMG(PMCC)/POWERnGUARDARM(EBT)/WATERSHIELDAR/ Fosroc to finish the damaged edges of joint andmaking the groove.d].Providing andfixing of masking tape on top of the jointboth sides.e].Providing and fixing ofBackupsupportmaterialofPolyethelene foamto leave the depthof 12mm on the joint. f].Providing andapplication of one coat of polysulphideprimerwith– Polysulphideprimeroninner edge on joints. g].Providing andapplicationofTwopartPolysulphidesealant to a widthof 25mm and 12mmdepthwith- ROOFSEALPS(Armstrong)/ POWERnSEALPS (EBT) /NITOSEALPS200(Fosroc)/ZORISEAL PS (PMCC) / SIKA	RMT	**650**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			POLYSULPHIDE (Sika) / WATERSHIELDPSComplieswithBS4254 - 83 or equavalent with putty knifeandneatfinish.h].Removingofmaskingtapeandprovidingandapplicationoftwocoatsof Acrylicelastomeric cementitious coating with -ROOFSEAL PS (Armstrong) /POWERn SEAL PS(EBT) /NITOSEAL PS 200(Fosroc)/ZORISEALPS(PMCC)/SIKAPOLYSULPHIDE(Sika)/WATERSHIELD PS		
			FORARRESTINGWATERFLOWLEAKAGES,LEAKAGESOFCONSTRUCTION JOINTS OFRESERVOIRS/PUMPROOMS/POWERHOUSE/PENSTOCK/CANAL DUCTS AND OTHER WATERRETAINING STRUCTURES EXECUTIONINTHEPRESENCEOFWATER.		
341	MAT-05366	BMT-H.79	LABOUR CHARGES FORSPECIALISEDEXPANSIVEACQUA–REACTIVEWATERBARRIERGROUTING (1). DrillingofholeswithElectricalDrilling machineuptotherequireddepth i.e.,(12mm to 14mm dia sizedholes) (2). Fixingofpressureretainingaluminum/steelpackersfixingwithInstantsettingleakproofpluggingcompoundWONDERSEALPLUG(Armstrong) / POWER n PLUG(EBT) /RENDROC PLUG (Fosroc) /ZORIPLUG(PMCC/SIKAPLUG (Sika)WATERSHIELDPLUG (3). GroutingofholeswithAirCompressed Injectionequipment withsingle component aliphaticpolyurethane groutcompound-RAPIDSTRONG GROUT PU (Armstrong)POWERnGROUTPU(EBT)/ NITOFILUR60WS63(Fosroc)/ZORIGROUTPU(PMCC)/WATERSHIELDGROUTPU (4). After removing the pipes sealing oftheholeswithpolymerputty–ROOFCRETE AR SYSTEMS (Armstrong)/ ZORIGROUTCMG	Each	**250**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			(PMCC)/POWERnGUARDARM(EBT)/WATERSHIELDAR/ Fosroc withCement.		
342	MAT-05367	BMT-H.80	Supplyofchemicalsforspecialisedexpansiveaquareactivewaterbarriergrout-RAPIDSTRONGGROUTPU (Armstrong)POWERnGROUTPU(EBT)/ NITOFILUR60WS63(Fosroc)/ZORIGROUTPU(PMCC)/WATERSHIELDGROUTPU	Kg	**1500**
			FOR STRENTHENING AND SEAL THEPOROSITYOFTHECONCRETETO ARREST THE LEAKAGES,DAMPNESS,LEAKAGESOFCONSTRUCTION JOINTSFORTERRACE/ CEILING/RCCRETAININGWALLS/BASEMENTFLOORINGS/WATERTANKS/RESERVOIRS /TOILETS etc.,		
343	MAT-05368	BMT-H.81	SPECIALISED INJECTION GROUTINGWITHCEMENTANDFREEFLOWADDITIVES: a].Drilling of holes with power drillingmachine to the required depth [12mm to14mmdiaholes] b].FixingofRubberNozzleswithcementandquicksetting,Rapidhardening compound putty - Rapidstrong qs orequivalent. c].Grouting of holes with 140 PSI GroutpumpwithcementslurrymixingwithSpecialized Free flow, Non-shrink Groutadditive-RAPIDSTRONGGROUTADMIX(Armstrong)/POWERnGROUT ADMIX(EBT) /CEBEX100(Fosroc)/ ZORIGROUT GP1(PMCC) /SIKAGROUTANCHKORNSQ(Sika) /WATERSHIELD GROUT ADMIXi.e., 250Gramsperbagof50KgsCementaddrequiredwatertomakeslurryform. d]. After completion of grouting, RemovetheRubbernozzles e].Latersealingoftheholewithpolymercementputty-ROOFCRETEAR (Armstrong) /ZORIGROUT CMG(PMCC)/POWERnGUARDARM(EBT) / WATERSHIELD AR /FosrocNITOBONDAR+ Cement.	Each	**150**
			FOR STRENTHENING AND SEAL THEPOROSITYOFTHECONCRETETO ARREST THE LEAKAGES,DAMPNESS,LEAKAGESOF		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			ONSTRUCTION JOINTS : (FORTERRACE/CEILING/RCCRETAININGWALLS/BASEDMENTFLOORINGS/WATERTANKS/RESERVOIRS /TOILETSetc.,)		
344	MAT-05369	BMT-H.82	**SPECIALISED INJECTION GROUTINGWITH CEMENT ANDCRYSTALLIZATIONADMIXTURES: a].Drillingofholeswithpowerdrilling machine to the required depth[12mmto 14mmdiaholes] b].Fixing of Rubber Nozzleswithcementandquicksetting,RapidhardeningcompoundputtyRapidstrongqsorequavalent c].Grouting of holes with 140 PSIGroutpumpwithcementslurrymixing with Specializedcrystallizationcompound-Roofexgpor equavalent@5% by weight ofcement. d]. Aftercompletionofgrouting, Removethe Rubbernozzles e].Latersealingoftheholewithpolymercementputty-ROOFCRETEAR (Armstrong) /ZORIGROUTCMG(PMCC)/POWERnGUARDARM(EBT) / WATERSHIELD AR /FosrocNITOBONDAR+Cement**	Each	**225**
			CRACKSATTERRACE/BEAM&WALLS JUNCTIONS - SEALING THEJOINTSWITHPOLYURETHANESEALANT:		
345	MAT-05370	BMT-H.83	SPECIALISED POLYURETHANE SEALANTTREATMENT: a). Making‘’U”Groove(widthanddepthof6mmx 6mm) b). Fillingofthegroovewithpolyurethanesealant – ROOFSEALPU(Armstrong)/POWERnSEALPU(EBT) /THIOFLEX600(Fosroc)/ZORISEALPU(PMCC)/SIKAFLEXPRO -3 WF (Sika) WATERSHIELD PU3	RMT	**330**
			CRACKS AT INTERNAL / EXTERNALWALLS-SEALINGTHECRACKSWITH ACRYLIC CAULKINGCOMPOUND		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
346	MAT-05371	BMT-H.84	SPECIALISED ACRYLIC CAULKINGS EALANTTREATMENT: a). Making‘’U”Groove (widthand depthof 6mmx6mm) b).FillingofthegroovewithAcryliccaulking compound-WONDERSEALXL (Armstrong)/ POWER nSEAL XL(EBT)/NITOSEAL(Fosroc)/WATERSHIELDXL/ZORISEALXLLATEX(PMCC)	RMT	**180**
347	MAT-08739	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 localtion 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	6640
348	MAT-08740	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	4450

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 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)		
349			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 arragement 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.		
350	MAT-08741	BMT-H.130	Roof Joint of 200 mm gap	RMT	4925
351	MAT-08742	BMT-H.131	Roof Joint of 250 mm gap	RMT	6200

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
		II.SUB-SECTION	INTERGRAL WATERPROOFINGCOMPOUND		
352	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	1Ltr	190
353	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	1Ltr	120
		II.SUB-SECTION	PLASTICIZERS AND WATER REDUCING AGENT		
354	MAT-05374	BMT-H.87	Concrete plasticizers and Waterreducing admixture (not air entrainingagent)(Dosage: 15-20mlperbagof50 Kgs Cement)- Complies withI.S.9103-99 Idealtouseasconcreteadmixture forworkabilityretension of slump andcontrol water cement ratio of M 20 +grade concrete for slabs /roads worksand otherconcreteworks	1Ltr	200
			SUPERPLASTICIZERSANDWATERREDUCING CONCRETEADMIXTURES		
355	MAT-05375	BMT-H.88	Super plasticizer and water reducingconcrete admixture base on LignoSulphide Complies with IS 9103 &ASTMC494(Dosage:200mlto300mlperbagof 50Kgs Cement) For M25 + grade concrete works likeRoad Projects / Canal linings/ Dams /Reservoirs/Building'sconcreteworks.	1Ltr	70
356	MAT-05376	BMT-H.89	Highperformancesuperplasticizerandwater reducingadmixture based onlignosulphideandnapthaleneblended	1Kg	75

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			Complieswith9103/4-99(Dosage:300ml to 500ml Per Bag of 50 KgsCement) For M30+ grade concrete works likeRoad Projects / Canal linings/ Dams /Reservoirs/Building'sconcreteworks.		
357	MAT-05377	BMT-H.90	Highperformancesuperplasticizerandwater reducingadmixture based onnapthalene blended Complieswith9103/4-99(Dosage:300ml to 500ml Per Bag of 50 KgsCement) For M40+ grade concrete Works likeroad projects / Canal linings / Dams /Reservoirs/Building'sconcreteworks	**1Kg**	**80**
			SELFCOMPACTINGCONCRETE ADMIXTURES		
358	MAT-05378	BMT-H.91	High strength super plasticizers andwaterreducing agent based onpolycarboxylic technology. ComplieswithIS9103/ASTMC494(300 mlto1LtrPerBagof50KgsCement) For M-40+ + concrete structures incoastalareas,forearlyhighstrength.	**1Kg**	**110**
			RETARDINGADMIXTURES		
359	MAT-05379	BMT-H.92	Superplasticizer,highrangewaterreducingand retarding concreteadmixtureofnapthaleneblended. (Complieswith9103-99)(Dosage:300ml to 500ml Per bag of 50 KgsCement) Fordelayingof initialsettingtimeandM40+Gradeconcreteworks.	**1Kg**	**85**
			CORROSIONINHIBITOR ADMIXTURE		
360	MAT-05380	BMT-H.93	High strength super plasticizer andcorrosion inhibitor for concrete(Complies with IS 9103-99 & EN 1504-9Method11.3)(Dosage :200mlto500mlPerBagof50Kgs Cement) For Concretingunder extremecorrosioneffectedareas/coastal areas /industrialconstructionstoprotectthesteelreinforcement. Anti Corrosion and leak proof CrackProof,WaterProof,ConcreteHardenerAdmixtureliquid.	**1Kg**	**95**
			AIRENTRAINING AGENT		
361	MAT-05381	BMT-H.94	Hi-powerconcentratedAirEntraining,	**1Ltr**	**160**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			PlasticizingWaterreducingcompoundComplies withIS 9103-99 & ASTM C260 (Dosage 20ml per bag of 50 KgsCement) Idealto useforthecconstructionofBridges, Barrages, Dams, Tunnels,Piles,Foundations,Towers etc.,		
362	MAT-05382	BMT-H.95	Two component High Power PolyesterResin Anchor Grout CompoundComplieswithASTM-827/SNF.CRDC-621 (Yield0.5 Ltrs / 1 Kg Pack) ForAnchoring/fixthesteelbarsintother ocks, concrete for foundations,extensionofconcrete.	**1Kg**	**325**
		IV. SUB-SECTION	**GROUTS**		
363	MAT-05383	BMT-H.96	Non-shrinkFreeflowhighstrengthprecisio ngrout ComplieswithBS1881Part1161983.For machinery / thin sections ofconcrete jointsFilling.	**1Kg**	**34**
364	MAT-05384	BMT-H.97	Low viscosity Epoxy resininjectiongrout -Two parts system.ComplieswithBS6920/ASTM881-78(Density 1.07KgPerLtr) ForStructuralstrengthening,fillingofhoneycomb/voids intheconcrete.	**1Kg**	**800**
365	MAT-05385	BMT-H.98	Non-shrink,freeflow,highstrengthgroutadmixture Dosage:250GramsPer Bagof50KgsCement. (ComplieswithB.S.1881Part1161983)	**1Kg**	**60**
366	MAT-05386	BMT-H.99	Highperfomrance,Highbuildexpansiveacqua-reactive water barrierpolyurethanegrout.	**1Kg**	**1500**
		V. SUB-SECTION	**BONDINGAGENTS**		
367	MAT-05387	BMT-H.100	Acrylicbasedbondingadhesive(Mix:1:1 ratioofcement) Coverage:50SFT/Ltr/CoatDependingon thesubstrate Onterraceoldconcretetonewmortar/screed.	**1Ltr**	**150**
368	MAT-05388	BMT-H.101	Styrene butadiene rubber basedbondingagentformortar/concrete	**1Ltr**	**450**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			(Mix:1:1ratioofcement) Forceiling /concreterepairsandbonding. Coverage:50SFT/Ltr/CoatDependingon thesubstrate		
369	MAT-05389	BMT-H.102	Structural element concrete bondingagentold to new concrete epoxybonding agent : (Two PartssystemofEpoxy Bonding adhesive)Complies withASTM-C 881Coverage :20 – 25 SFT / Kg /CoatFor Structural concrete repairs /bonding.	**1Kg**	**870**
		VI. SUB-SECTION	**SEALANTS**		
370	MAT-05390	BMT-H.103	Single component polyurethane sealant(Gungrade/PourGrade)Complis with:ASTM C 920 -95 Type S / Grade NS,Class25,andBS;5212 Ideal to useforFilling of runways /buildings,expansionjoints,constructionj oints,TerraceCracks,Sealingjointsatdoo rs, windows, facades, frames, cracketc.,	**600ml**	**470**
371	MAT-05391	BMT-H.104	Twopart polysulphidesealant(Gun/PourGrade) ComplieswithASTM C920-95/DIN18549TT -5-00227E/BS 4254 -83 Ideal to useforExpansion /constructionjointsofrunways,buildingset c.,	**1Kg**	**410**
372	MAT-05392	BMT-H.105	AcrylicLatexCaulkingCompoundC ompliesASTM-C-834-91 Idealforexteriorandinteriorcrackfillingwor ks, Excellent bonding strength toadjoiningsurface.	**1Kg**	**304**
		VII. SUB-SECTION	**PROTECTIVE WATERPROOFCOATINGS/C EMENTBASEDCOATINGS:**		
373	MAT-05393	BMT-H.106	Two component sysem High durablecementitious acrylicbasedwaterproofingsystems :Complies withASTMD4541 /BS EN12390/DN1048 (2to3 Sqm intwocoats) For Terrace, Water Tanks, WallsWaterproofCoatingsofTwoP artSystem.	**1Ltr**	**134**
374	MAT-05394	BMT-H.107	AcrylicPolymerElastomeric	**1Ltr**	**350**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			Cementitious WaterproofCoatingsSurface treatments for Terrace, WaterTanks,Walls,ReservoirsWaterproofingCoatings.Complies with ASTM D4541 /BSEN 12390.(Coverage :50to60 SFT /Ltr/coat)		
			PUREACRYLICELASTOMERIC COATINGS		
375	MAT-05395	BMT-H.108	Singlecomponent, High solid, coldapplied,Acrylicelastomericwaterproofmembrane coatingComplies withASTMC836/ 89A&ASTMC297 (Coverage:50to60SFTPer/Ltr/Coat)Wherever highly flexible, crackBridging,waterproofing required forTerrace, WallsHighly FlexibleWaterproof Liquid Membrane pureAcrylicCoatings. (forbrush/spray applicationadd20%waterperLtr)	**1Ltr**	**425**
376	MAT-05396	BMT-H.109	Rubberizedelastomericflexible waterproofcoating ComplieswithASTM836/89A&ASTMC297 Coveage:40 to 50 SFT/ Ltr / coat(forbrush/spray applicationadd20%waterperLtr)	**1Ltr**	**300**
			BITUMINOUSCOATING		
377	MAT-05397	BMT-H.110	Polyurethane blended Bituminouswaterproof coating system - ComplieswithASTMC 836 /D638/DIN-1048/ ASTMD1004-76(Coverage:40to50SFT/Kg/coat) Ideal to useas waterproofofRCCsubstrates, Roofs, Sloped roofs,Basements. Provides jointless andseamless membrane waterproofing.(forbrush/spray applicationadd20%waterperLtr)	**1Kg**	**570**
378	MAT-05398	BMT-H.111	High Performance Acrylic blendedBituminouswaterproofcoatingsystems. ComplieswithASTMC836 (Coverage:40to 50 SFT/Ltr/coat)(for brush / spray applicationadd 20%waterperLtr)	**1Kg**	**350**
			SOLARREFLECTIVECOATING		
379	MAT-05399	BMT-H.112	PureAcrylicSolarReflectiveinsulatorcoating ComplieswithASTM-G-154: 2000&ASTME903/EN1062 -3 requirementof EN 1504/2 :EN1062-	**1Ltr**	**200**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			6 Coverage:15SFT/Ltr/ 3Coats (forbrush/spray applicationadd20%waterperLtr		
			EPOXYCOATINGS		
380	MAT-05400	BMT-H.113	TwocomponentWaterthinnableFoodNeutral Epoxy coating (Complies withASTM- C- 881/EN13813) Coverage:70to 80 SFTperLtr/coatIdeal to useas internal coatings forpotablewatertanks,reservoirs,sumps andwalls. Part-I1 Kg: Part-II1/2Kgdilutewith 1Ltrofwater	**1Kg**	**425**
			POLYURETHANECOATING		
381	MAT-05401	BMT-H.114	Single component cold appliedpolyurethane waterproof coating-Complies withASTM 836 / EN 1062-3requirementofEN1504-2 Coverage:300GramsPer coat/ Sqm.brush/sprayapplicationadd20%waterperLtr	**1Kg**	**400**
		VIII.SUB-SECTION	**ANTICORROSIVEAGENTS**		
382	MAT-05402	BMT-H.115	Acrylic basedAnti corrosive coatingToprotecttheexposedreinforcement/steelstructuresagainstcorrosion. Coverage:40SFTPer Ltr/Coat.	**1Ltr**	**350**
383	MAT-05403	BMT-H.116	Rustconverter– rustencapsulatingcoating for steel During repairs toprotect, to convertthe rust ofreinforcement/steel. Coverage:50SFTPer Ltr/Coat	**1Ltr**	**480**
384	MAT-05404	BMT-H.117	Highrangezincrichepoxyresinprimerfor reinforcement steel protectionagainstcorrosion. Coverage:4 Sq.Mtr./Ltr/ Coat	**1Kg**	**475**
		IX. SUB-SECTION	**CURINGCOMPOUND&MISCELLANEOUSCHEMICALS**		
385	MAT-05405	BMT-H.118	Acrylicblendedwaterbasedconcretecuringcompounds Complies with ASTM - C - 309 Class-ATypes I&II Coverage:3.5to 4Sqm/ Kg/ Coat	**1Kg**	**60**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			CONCRETEREPAIRADMIXTURES		
386	MAT-05406	BMT-H.119	Acrylicpolymermodifiedreinstatementconcrete/mortar admixture Dosage:1to2Ltrs Per Bagof50 KgsCement canbemixedwithrequiredaggregates To achieve trusted High StrengthConcreting/Structuralrehabilitation/concreterepairs.	**1Ltr**	**450**
			CRYSTALLIZATIONCOMPOUND		
387	MAT-05407	BMT-H.120	Concrete waterproofingwithcrystallizationsystem byblockinginnerpours andcavities of concrete. Coverage: 1.25 Kg per Sqm / CoatFor NegativeWaterPressureTreatmentslikeCellar/Ceilingareasetc.,	**1Kg**	**360**
			PLUGGINGCOMPOUND		
388	MAT-05408	BMT-H.121	Fastsettingcementbasedpluggingcompound. Toarrestwater flowleakages. (PowderForm:mixwithwaterdirectapplication	**1Kg**	**85**
			SHOTCRETE/GUNITING ADMIXTURE		
389	MAT-05409	BMT-H.122	Set Accelerator for sprayed concreteand plasticizerComplieswithIS9103-99/ ASTMC 494TypeC /BS 5075 Dosage:1Kgto3KgsperBagof50Kgs CementDepend on setting timerequired Forshotcrete/Gunniting/ Emergencyconcreteworks	**1Kg**	**85**
390	MAT-05410	BMT-H.123	Quick setting, rapidhardeningandwaterproofing compound Complieswith ASTM C 494 TypeC / IS 9103 -99&BS5075. Dosage:1Kgto3KgsPerBagof50Kgs Cement Depend on setting timeFor emergency works/Anti wash andunderwater concreting.	**1Ltr**	**80**
			MICROCONCRETE		
391	MAT-05411	BMT-H.124	Highstrengthnon-shrinkcementitiousmicroconcrete	**1Kg**	**38**
			TILEADHESIVES /GROUTS		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
392	MAT-05412	BMT-H.125	TileAdhesive.ConfirmstoIS15477-2004 for both type I& II / BS : EN12004CTTadhesive. For excellence adhesion, improvedworkabilitywaterproofandal soheatresistanttilefixing adhesive. At3mmthickness65-70 SFT	**1Kg**	**55**
393	MAT-05413	BMT-H.126	Threecomponentsystemepoxygroutfo r Vitrified tiles, Ceramic tilesandstones B.S. 5980 : 1980 / BS EN120004, R2T.Dependsupontile dimensionand groutwidth	**1Kg**	**690**
394	MAT-05414	BMT-H.127	PolymerModifiedTileGroutComplieswi thBSEN13888,CG2AW 4-4.5 Sqm/ Kgof150 mmx150mmtilesize mix1Part Waterwith4PartsPowderPack	**1Kg**	**60**
		I.SECTION	**GLASSMATERIALS (Landingcost– includingloading,costof conveyance &unloading)**		
		I.SUB-SECTION	**PLAINGLASSPANES**		
395	MAT-01052	BMT-I.01	PlainFloatGlass4mm thick	1sqm	**373**
396	MAT-01053	BMT-I.02	PlainFloatGlass5mm thick	1sqm	**474**
397	MAT-01054	BMT-I.03	PlainFloatGlass6mm thick	1 Sqm	**593**
398	MAT-01055	BMT-I.04	PlainFloatGlass8mm thick	1 Sqm	**789**
399	MAT-01056	BMT-I.05	PlainFloatGlass10mmthick	1 Sqm	**830**
400	MAT-01057	BMT-I.06	PlainFloatGlass12mmthick	1 Sqm	**996**
		II..SUB-SECTION	**PINHEADEDGLASSPANES**		
401	MAT-01064	BMT-I.13	PinheadedGlass4mm thick	1sqm	**280**
402	MAT-01065	BMT-I.14	PinheadedGlass5mm thick	1sqm	**364**
		III..SUB-SECTION	**TINTEDGLASSPANES**		
403	MAT-01058	BMT-I.07	Tinted-Bronze/GreenGlass4mmthick	1sqm	**436**
404	MAT-01059	BMT-I.08	Tinted-Bronze/GreenGlass5mmthick	1sqm	**545**
405	MAT-01060	BMT-I.09	Tinted-Bronze/GreenGlass6mmthick	1 Sqm	**654**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
406	MAT-01061	BMT-I.10	Tinted-Bronze/GreenGlass8mmthick	1 Sqm	**935**
407	MAT-01062	BMT-I.11	Tinted-Bronze/GreenGlass10mmthick	1 Sqm	**1090**
408	MAT-01063	BMT-I.12	Tinted-Bronze/GreenGlass12mmthick	1 Sqm	**1375**
		IV..SUB-SECTION	**FROSTED/GROUNDGLASSPANES**		
409	MAT-01066	BMT-I.15	Frosted/GroundGlass4 mmthick	1sqm	**503**
410	MAT-01067	BMT-I.16	Frosted/GroundGlass5 mmthick	1sqm	**632**
		V..SUB-SECTION	**TOUGHENEDPANES**		
411	MAT-01068	BMT-I.17	ToughenedPlainGlass5mm(includingGlass)	1sqm	**758**
412	MAT-01069	BMT-I.18	ToughenedPlainGlass6mm(includingGlass)	1sqm	**875**
413	MAT-01070	BMT-I.19	ToughenedPlainGlass8mm(includingGlass)	1sqm	**1167**
414	MAT-01071	BMT-I.20	Toughened Plain Glass 10 mm(includingGlass)	1sqm	**1399**
415	MAT-01072	BMT-I.21	ToughenedPlainGlass12mm(including Glass)	1sqm	**1633**
		J.SECTION	**PAINTS& POLISHES (Landingcost– includingloading,costof conveyance&unloading)**		
		I.SUB-SECTION	**PRIMERS,FILLERS&BASES**		
416	MAT-01073	BMT-J.01	SupplyofwaterbasedCementPrimerofInterior Grade- 1	1Kg	**141**
417	MAT-01074	BMT-J.02	SupplyofwaterbasedCementPrimerof ExteriorGrade- 2	1Kg	**180**
418	MAT-01104	BMT-J.31	SupplyofwallputtyofWhiteCementorPolymerorCementbased	20Kg	**550**
419	MAT-01075	BMT-J.03	SupplyofRedOxidePrimerPaintforiron works ofGrade-1	1 Litre	**121**
420	MAT-01076	BMT-J.04	SupplyofZincChromateYellowOxidePrimerpaintforironworks	1Litre	**175**
421	MAT-01077	BMT-J.05	SupplyofWoodPrimer	1Litre	**130**
422	MAT-01078	BMT-J.06	SupplyofMetalpaste(Putty)forsteelworks	1Kg	**130**
423	MAT-01079	BMT-J.07	SupplyofPuttyforwood work	1Kg	**130**
424	MAT-01080	BMT-J.08	SupplyofWhiteLead	1Kg	**93**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
425	MAT-01081	BMT-J.09	SupplyofSyntheticclearVarnish	1Litre	**137**
426	MAT-01082	BMT-J.10	SupplyofSpirit	1Litre	**96**
427	MAT-01083	BMT-J.11	Supplyof LinseedOil	1Litre	**55**
428	MAT-01084	BMT-J.12	Supplyofthinnerformelaminepolish/frenchpolish	1Litre	**131**
429	MAT-01085	BMT-J.13	SupplyofthinnerforPoly-urethenepolish	1Litre	**244**
430	MAT-01086	BMT-J.14	SupplyofFrenchPolish	1Litre	**179**
431	MAT-01087	BMT-J.15	Supplyofready madeWaxPolish	1Kg	**514**
432	MAT-01091	BMT-J.19	Supplyofwoodadhesivecompound	1Kg	**212**
433	MAT-01100	BMT-J.27	Supplyofanti-corrosivegrade-1bitumen paint ofblackcolour	1Litre	**465**
		II.SUB-SECTION	**DISTEMPERPAINTS**		
434	MAT-01092	BMT-J.20	SupplyofDryPowderDistemper	1Kg	**40**
435	MAT-01093	BMT-J.21	SupplyofacrylicbasedOilBoundwashable Distemper	1Kg	**81**
436	MAT-01099	BMT-J.26	Supplyofpaintgradewhitelimeforwash	25Kg	**490**
437	MAT-01095	BMT-J.23	SupplyofWaterproofCementpaint	1Kg	**49**
438	MAT-01098	BMT-J.25	SupplyofwaterproofCementpaintpack	25Kg	**1009**
		III.SUB-SECTION	**EMULSIONBASEDPAINTS**		
439	MAT-01097	BMT-J.24	Supplyofacrylicemulsionpaint**interiorgrade**havingVOC(VolatileOrganicCompound)contentlessthan50grams/liter.	1Litre	**168**
440	MAT-01107	BMT-J.34	Supply of acrylic emulsion paint **exteriorgrade**withsiliconadditiveshaving VOC(VolatileOrganicCompound)content lessthan50grams/liter.	1Lit	**194**
441	MAT-01108	BMT-J.35	Supplyofacrylicemulsionpaint**weatherproofwater-based,**modifiedacrylicwithsiliconadditive s**exteriorgrade**havingVOC(VolatileOrganicCompound)contentlessthan50grams/liter.	1Lit	**214**
		IV.SUB-SECTION	**SOLVENTBASED PAINTS**		
442	MAT-01094	BMT-J.22	Supplyofsyntheticpolymerluxuryplastic emulsion paint of **superior grade**havingVOC(VolatileOrganicCompound)contentlessthan50grams/	1Litre	**404**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			liter.		
		V.SUB-SECTION	**OILBASED ENAMEL PAINTS**		
443	MAT-01102	BMT-J.29	Supply of ready mixed Synthetic EnamelpaintsinallshadesGrade-IhavingVOC(VolatileOrganicCompound) content lessthan50grams/liter.	1Litre	**248**
444	MAT-01103	BMT-J.30	Supply of ready mixed Synthetic Enamelpaints in all shades Grade - II havingVOC(VolatileOrganicCompound)content lessthan50grams/liter.	1Litre	**172**
		VI.SUB-SECTION	**TEXTUREPAINTS**		
445	MAT-01105	BMT-J.32	ExteriorTexture.	25Kg	**818**
446	MAT-01106	BMT-J.33	GoldlineExteriorTexture	25Kg	**1060**
		VII.SUB-SECTION	**SPECIALPAINTS**		
447	MAT-01088	BMT-J.16	SupplyofMelaminePolish	1Litre	**314**
448	MAT-01089	BMT-J.17	SupplyofInteriorGradePoly-UrethenePolish	1Litre	**637**
449	MAT-01090	BMT-J.18	SupplyofExteriorGradePoly-UrethenePolish	1Litre	**708**
450	MAT-01101	BMT-J.28	Supplyofgrade-1aluminiumpaint	1Litre	**255**
451	MAT-05415	BMT-J.36	Acrylicsprayplasterinpasteform madewith specially selected inert mineralfillers, antifungal agents to protect thematerial the acrylic binding mediumused gives good surface adhesion anygrade **Spray Plaster-Superfine(InteriorGrade)**	25Kg	500
452	MAT-05416	BMT-J.37	**Acrylic coarse spray plaster** in pasteform made with specially selected inertmineral fillers, antifungal agents toprotect the material the acrylic bindingmedium used gives good surfaceadhesion**interiorgradeAcrylicc oarse**	25Kg	400
453	MAT-05417	BMT-J.38	Supply of **acrylic emulsion paintinteriorpremiumgrade**havingV OC(Volatile Organic Compound) contentlessthan50grams/liter	1Liter	200
454	MAT-05418	BMT-J.39	Supply ofBase coat as primer fornaturaltexturesandnaturalstonebased paints-**Exterior GradeBASE COAT**	1Kg	61
455	MAT-05419	BMT-J.40	**Acrylicsprayplasterinpasteform**ma de with specially selected inertmineralfillers, antifungalagentsto	25Kg	1300

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			protect the material the acrylic bindingmedium used gives good surfaceadhesion**exteriorgradeSprayPlaster(Exterior)**		
456	MAT-05420	BMT-J.41	Supply of **acrylic emulsion paintexterior premium grade** with siliconadditiveshavingVOC(VolatileOrganicCompound) content less than 50grams/liter.Alltimate	1Liter	310
457	**MAT-08753**	**BMT-J.42**	Poly-urethane paint	1Liter	**500**
		K	**PARTICLEBOARDS (Landingcost– includingloading,costof conveyance, unloading)**		
		I.SUB-SECTION	**MELAMINEFACEDPLAINPARTICLEBOARDS**		
458	MAT-01109	BMT-K.01	MelaminefacedSingleDecoPPB-8mmthick	1Sqm	**590**
459	MAT-01110	BMT-K.02	MelaminefacedSingleDecoPPB-12mmthick	1Sqm	**670**
460	MAT-01111	BMT-K.03	MelaminefacedSingleDecoPPB-18mmthick	1Sqm	**776**
461	MAT-01112	BMT-K.04	MelaminefacedSingleDecoPPB-25mmthick	1Sqm	**879**
462	MAT-01113	BMT-K.05	MelaminefacedSingleDecoPPB-35mmthick	1 Sqm	**1463**
463	MAT-01114	BMT-K.06	MelaminefacedTwinDecoPPB-8mmthick	1 Sqm	**679**
464	MAT-01115	BMT-K.07	MelaminefacedTwinDecoPPB-12mmthick	1 Sqm	**776**
465	MAT-01116	BMT-K.08	MelaminefacedTwinDecoPPB-18mmthick	1 Sqm	**898**
466	MAT-01117	BMT-K.09	MelaminefacedTwinDecoPPB-25mmthick	1 Sqm	**995**
467	MAT-01118	BMT-K.10	MelaminefacedTwinDecoPPB-35mmthick	1 Sqm	**1869**
		II.SUB-SECTION	**INSULATINGPARTICLEBOARDS**		
468	MAT-01119	BMT-K.11	Natural Colour-Insulating Board - 12 mmthick	1 Sqm	**242**
469	MAT-01120	BMT-K.12	Natural Colour-Insulating Board - 18 mmthick	1 Sqm	**358**
470	MAT-01121	BMT-K.13	Natural Colour-Insulating Board - 25 mmthick	1 Sqm	**414**
471	MAT-01122	BMT-K.14	WhiteInsulatingBoard-12mmthick	1 Sqm	**268**
472	MAT-01123	BMT-K.15	WhiteInsulatingBoard-18mmthick	1	**383**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
				Sqm	
473	MAT-01124	BMT-K.16	WhiteInsulatingBoard-25mmthick	1 Sqm	**341**
		III.SUB-SECTION	**MEDIUMDENSITYFIBREBOARD**		
474	MAT-01125	BMT-K.17	MediumFibreBoard:InteriorGrade-6mmthick	1 Sqm	**359**
475	MAT-01126	BMT-K.18	MediumFibreBoard:InteriorGrade-8mmthick	1 Sqm	**407**
476	MAT-01127	BMT-K.19	MediumFibreBoard:InteriorGrade-12mmthick	1 Sqm	**545**
477	MAT-01128	BMT-K.20	MediumFibreBoard:InteriorGrade-15mmthick	1 Sqm	**693**
478	MAT-01129	BMT-K.21	MediumFibreBoard:InteriorGrade-18mmthick	1 Sqm	**773**
479	MAT-01130	BMT-K.22	MediumFibreBoard:InteriorGrade-25mmthick	1 Sqm	**1208**
480	MAT-01131	BMT-K.23	MediumFibreBoard:InteriorGrade-30mmthick	1 Sqm	**1460**
481	MAT-01132	BMT-K.24	MediumFibreBoard:InteriorGrade-35mmthick	1 Sqm	**1592**
482	MAT-01133	BMT-K.25	MediumFibreBoard:ExteriorGrade-6mmthick	1 Sqm.	**488**
483	MAT-01134	BMT-K.26	MediumFibreBoard:ExteriorGrade-8mmthick	1 Sqm.	**569**
484	MAT-01135	BMT-K.27	MediumFibreBoard:ExteriorGrade-12mmthick	1 Sqm.	**753**
485	MAT-01136	BMT-K.28	MediumFibreBoard:ExteriorGrade-15mmthick	1 Sqm.	**946**
486	MAT-01137	BMT-K.29	MediumFibreBoard:ExteriorGrade-18mmthick	1 Sqm.	**1059**
487	MAT-01138	BMT-K.30	MediumFibreBoard:ExteriorGrade-25mmthick	1 Sqm.	**1411**
488	MAT-01139	BMT-K.31	MediumFibreBoard:ExteriorGrade-30mmthick	1 Sqm.	**1758**
489	MAT-01140	BMT-K.32	MediumFibreBoard:ExteriorGrade-35mmthick	1 Sqm.	**2077**
490	MAT-01141	BMT-K.33	MDFBoard:Plain-Interior- 9mm thick	1 Sqm	**346**
491	MAT-01142	BMT-K.34	MDFBoard:Plain-Interior- 12mmthick	1 Sqm	**393**
492	MAT-01143	BMT-K.35	MDFBoard:Plain-Interior- 18mmthick	1 Sqm	**487**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
493	MAT-01144	BMT-K.36	MDFBoard:Plain-Interior-25mmthick	1 Sqm	**584**
494	MAT-01145	BMT-K.37	MDFBoard:Plain-Interior- 30mmthick	1 Sqm	**890**
495	MAT-01146	BMT-K.38	MDFBoard:Plain-Interior- 35mmthick	1 Sqm	**1053**
496	MAT-01147	BMT-K.39	MDFBoard: Plain-Exterior-9mmthick	1 Sqm	**431**
497	MAT-01148	BMT-K.40	MDFBoard: Plain-Exterior-12mmthick	1 Sqm	**487**
498	MAT-01149	BMT-K.41	MDFBoard: Plain-Exterior-18mmthick	1 Sqm	**639**
499	MAT-01150	BMT-K.42	MDFBoard: Plain-Exterior-25mmthick	1 Sqm	**801**
500	MAT-01151	BMT-K.43	MDFBoard: Plain-Exterior-30mmthick	1 Sqm	**1053**
501	MAT-01152	BMT-K.44	MDFBoard: Plain-Exterior-35mmthick	1 Sqm	**1213**
502	MAT-01153	BMT-K.45	MDFBoard:Interior-OneSideLaminated-9mm thick	1 Sqm	**542**
503	MAT-01154	BMT-K.46	MDFBoard:Interior-OneSideLaminated-12mmthick	1 Sqm	**613**
504	MAT-01155	BMT-K.47	MDFBoard:Interior-OneSideLaminated-18mmthick	1 Sqm	**713**
505	MAT-01156	BMT-K.48	MDFBoard:Interior-OneSideLaminated-25mmthick	1 Sqm	**801**
506	MAT-01157	BMT-K.49	MDFBoard:Interior-OneSideLaminated-30mmthick	1 Sqm	**1158**
507	MAT-01158	BMT-K.50	MDFBoard:Interior-OneSideLaminated-35mmthick	1 Sqm	**1235**
508	MAT-01159	BMT-K.51	MDFBoard:Exterior-OneSideLaminated-9mm thick	1 Sqm	**623**
509	MAT-01160	BMT-K.52	MDFBoard:Exterior-OneSideLaminated-12mmthick	1 Sqm	**700**
510	MAT-01161	BMT-K.53	MDFBoard:Exterior-OneSideLaminated-18mmthick	1 Sqm	**793**
511	MAT-01162	BMT-K.54	MDFBoard:Exterior-OneSideLaminated-25mmthick	1 Sqm	**927**
512	MAT-01163	BMT-K.55	MDFBoard:Exterior-OneSideLaminated-30mmthick	1 Sqm	**1235**
513	MAT-01164	BMT-K.56	MDFBoard:Exterior-OneSideLaminated-35mmthick	1 Sqm	**1312**
514	MAT-01165	BMT-K.57	MDF Board: Interior-Both SideLaminated-9mm thick	1 Sqm	**590**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
515	MAT-01166	BMT-K.58	MDF Board: Interior-Both SideLaminated-12mmthick	1 Sqm	**700**
516	MAT-01167	BMT-K.59	MDF Board: Interior-Both SideLaminated-18mmthick	1 Sqm	**801**
517	MAT-01168	BMT-K.60	MDF Board: Interior-Both SideLaminated-25mmthick	1 Sqm	**1006**
518	MAT-01169	BMT-K.61	MDF Board: Interior-Both SideLaminated-30mmthick	1 Sqm	**1235**
519	MAT-01170	BMT-K.62	MDF Board: Interior-Both SideLaminated-35mmthick	1 Sqm	**1312**
520	MAT-01171	BMT-K.63	MDF Board: exterior-Both SideLaminated-9mm thick	1 Sqm	**666**
521	MAT-01172	BMT-K.64	MDF Board: exterior-Both SideLaminated-12mmthick	1 Sqm	**792**
522	MAT-01173	BMT-K.65	MDF Board: exterior-Both SideLaminated-18mmthick	1 Sqm	**937**
523	MAT-01174	BMT-K.66	MDF Board: exterior-Both SideLaminated-25mmthick	1 Sqm	**1024**
524	MAT-01175	BMT-K.67	MDF Board: exterior-Both SideLaminated-30mmthick	1 Sqm	**1296**
525	MAT-01176	BMT-K.68	MDF Board: exterior-Both SideLaminated-35mmthick	1 Sqm	**1390**
		IV.SUB-SECTION	**CEMENTBONDEDPARTICLEBOARD**		
526	MAT-01177	BMT-K.69	Cement bonded particle boardconformingtoIS14276-6mmthick	1sqm	**221**
527	MAT-01178	BMT-K.70	Cement bonded particle boardconformingtois14276-8 mmthick	1sqm	**304**
528	MAT-01179	BMT-K.71	Cement bonded particle board conformingtois14276-10mmthick	1sqm	**376**
529	MAT-01180	BMT-K.72	Cement bonded particle board conforming to is14276-12mmthick	1sqm	**452**
530	MAT-01181	BMT-K.73	Cement bonded particle boardconforming to is14276-16mmthick	1sqm	**596**
531	MAT-05423	BMT-K.109	Cement bonded particle boardconforming to is14276-18mmthick	1 Sqm	**672**
532	MAT-01182	BMT-K.74	Cement bonded particle boardconforming to is14276-20mmthick	1sqm	**740**
533	MAT-01183	BMT-K.75	Cement bonded particle boardconforming to is14276-25mmthick	1sqm	**921**
534	MAT-01184	BMT-K.76	Cement bonded particle boardconforming to is14276-30mmthick	1sqm	**1119**
535	MAT-01185	BMT-K.77	Cement bonded particle boardconforming to is14276-40mmthick	1sqm	**1495**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
536	MAT-01186	BMT-K.78	Prelaminatedcementbondedparticleboard-6 mmthick	1sqm	**498**
537	MAT-01187	BMT-K.79	Prelaminatedcementbondedparticleboard-8 mmthick	1sqm	**545**
538	MAT-01188	BMT-K.80	Prelaminatedcementbondedparticleboard-10mmthick	1sqm	**583**
539	MAT-01189	BMT-K.81	Prelaminatedcementbondedparticleboard-12mmthick	1sqm	**671**
540	MAT-01190	BMT-K.82	Prelaminatedcementbondedparticleboard-16mmthick	1sqm	**714**
541	MAT-01191	BMT-K.83	CementBondedParticaleDESIGNERBOARD Available Designs 1. Lumber 2.Quadra3.MurkStandardsize8'X4'10'X4'-**6mm thick**	1sqm	**260**
542	MAT-01192	BMT-K.84	CementBondedParticaleDESIGNERBOARD Available Designs 1. Lumber 2.Quadra3.MurkStandardsize8'X4'10'X4'-**8mm thick**	1sqm	**317**
543	MAT-01193	BMT-K.85	CementBondedParticaleDESIGNERBOARD Available Designs 1. Lumber 2.Quadra3.MurkStandardsize8'X4'10'X4'-**10mmthick**	1sqm	**399**
544	MAT-01194	BMT-K.86	CementBondedParticaleDESIGNERBOARD Available Designs 1. Lumber 2.Quadra3.MurkStandardsize8'X4'10'X4'-**12mmthick**	1sqm	**480**
545	MAT-01195	BMT-K.87	CementBondedParticaleDESIGNERBOARD Available Designs 1. Lumber 2.Quadra3.MurkStandardsize8'X4'10'X4'-**16mmthick**	1sqm	**634**
546	MAT-01196	BMT-K.88	CementBondedBoardconformingtoIS:14862-2000- 4mmThick	1 Sqm	**146**
547	MAT-01197	BMT-K.89	CementBondedBoardconformingtoIS:14862-2000- 6mmThick	1 Sqm	**209**
548	MAT-01198	BMT-K.90	CementBondedBoardconformingtoIS:14862-2000- 8mmThick	1 Sqm	**269**
549	MAT-01199	BMT-K.91	CementBondedBoardconformingtoIS:14862-2000- 10mmThick	1 Sqm	**309**
550	MAT-01200	BMT-K.92	CementBondedBoardconformingtoIS:14862-2000- 12mmThick	1 Sqm	**386**
551	MAT-01201	BMT-K.93	CementBondedBoardconformingtoIS:14862-2000- 14mm Thick	1 Sqm	**410**
552	MAT-01202	BMT-K.94	CementBondedBoardconformingtoIS:14862-2000- 16mm Thick	1 Sqm	**490**
553	MAT-01203	BMT-K.95	CementBondedBoardconformingtoIS:14862-2000- 18mm Thick	1 Sqm	**529**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
554	MAT-01204	BMT-K.96	CementBondedBoardconformingtoIS:14862-2000- 20mmThick	1 Sqm	**590**
555	MAT-01213	BMT-K.105	**ITEMDELETED**		
556	MAT-05421	BMT-K.106	50 mm thick **SOLID WALL PANEL**Sandwichpanelsmadeoflightweight FRACC non-asbestos fibre reinforcedcementconcrete	1 Sqm	**907**
557	MAT-05422	BMT-K.107	75 mm thick **SOLID WALL PANELSandwich panels made of lightweightFRACCnon-asbestosfibrereinforcedcementconcrete**	1 Sqm	**1143**
		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.104are removed inthesectionKandarebroughtasnewitemsinthe 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 (Landingcost–incudingloading,costof conveyance,unloading)**		
		I.SUB-SECTION	**MOISTURERESISTANT(MR)GRADE**		
558	MAT-01216	BMT-L.01	3Ply-4mmthickPlywood(IS:303)MRGrade	1 Sqm	**363**
559	MAT-01217	BMT-L.02	5Ply-6mmthickPlywood(IS:303)MRGrade	1 Sqm	**399**
560	MAT-01218	BMT-L.03	5Ply-8mmthickPlywood(IS:303)MRGrade	1 Sqm	**480**
561	MAT-01219	BMT-L.04	5Ply-9mmthick Plywood(IS:303)MRGrade	1 Sqm	**480**
562	MAT-01220	BMT-L.05	9Ply-12 mmthickPlywood(IS:303)MRGrade	1 Sqm	**600**
563	MAT-01221	BMT-L.06	9Ply-15 mmthickPlywood(IS:303)MRGrade	1 Sqm	**885**
564	MAT-01222	BMT-L.07	9Ply-18 mmthickPlywood(IS:303)MRGrade	1 Sqm	**867**
		II.SUB-SECTION	**BOILINGWATERRESISTANT(BWR)GRADE**		
565	MAT-01223	BMT-L.08	3Ply-4mmthickPlywood(IS:303)BWR/BWP Grade	1 Sqm	**423**
566	MAT-01224	BMT-L.09	5Ply-6mmthickPlywood(IS:303)BWR/BWP Grade	1 Sqm	**472**
567	MAT-01225	BMT-L.10	5Ply-8mmthickPlywood(IS:303)BWR/BWP Grade	1 Sqm	**588**
568	MAT-01226	BMT-L.11	5Ply-9mmthickPlywood(IS:303)BWR/BWP Grade	1 Sqm	**554**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
569	MAT-01227	BMT-L.12	9Ply-12mmthickPlywood(IS:303)BWR/BWP Grade	1 Sqm	**725**
570	MAT-01228	BMT-L.13	9Ply-15mmthickPlywood(IS:303)BWR/BWP Grade	1 Sqm	**1031**
571	MAT-01229	BMT-L.14	9Ply-19mmthickPlywood(IS:303)BWR/BWP Grade	1 Sqm	**1044**
		III.SUB-SECTION	**VENEEREDDECORATIVEPLYWOOD**		
572	MAT-01230	BMT-L.15	3Ply-4mmthickOnesideTeakVeneerDecoratedPlywood(IS:1328)	1 Sqm	**561**
573	MAT-01231	BMT-L.16	5 Ply - 6 mm thick One side TeakVeneerDecoratedPlywood(IS:1328)	1 Sqm	**731**
574	MAT-01232	BMT-L.17	5 Ply - 9 mm thick One side TeakVeneerDecoratedPlywood(IS:1328)	1 Sqm	**894**
575	MAT-01233	BMT-L.18	9 Ply - 13 mm thick One side TeakVeneerDecoratedPlywood(IS:1328)	1 Sqm	**1193**
576	MAT-01234	BMT-L.19	5 Ply - 9 mm thick Both sides TeakVeneerDecoratedPlywood(IS:1328)	1 Sqm	**1221**
577	MAT-01235	BMT-L.20	9 Ply - 12 mm thick Both sides TeakVeneerDecoratedPlywood(IS:1328)	1 Sqm	**1359**
		IV.SUB-SECTION	**LAMINATES**		
578	MAT-01205	BMT-L.21	LaminateSheets-GlossyFinish:1mmthick	1 Sqm	**367**
579	MAT-01206	BMT-L.22	LaminateSheets-GlossyFinish:1.50mmthick	1 Sqm	**524**
580	MAT-01207	BMT-L.23	LaminateSheets-GlossyFinish:1.80mmthick	1 Sqm	**575**
581	MAT-01208	BMT-L.24	LaminateSheets-MatFinish:1mmthick	1 Sqm	**370**
582	MAT-01209	BMT-L.25	LaminateSheets-MatFinish:1.50mmthick	1 Sqm	**516**
583	MAT-01210	BMT-L.26	LaminateSheets-MatFinish:1.80mmthick	1 Sqm	**555**
		V.SUB-SECTION	**COMMERCIALVENEERS**		
584	MAT-08743	BMT-L.27	TeakVeneerLamination-4mmthick-PencilGrains	1 Sqm	**410**
585	MAT-08744	BMT-L.28	TeakVeneerLamination-4mmthick-NaturalGrains	1 Sqm	**717**
		BMT-L.29	ProvidingWood Polymer Composite(WPC)solid,frostywhitesingleextrudedfactory made2.44 mt x 1.22 mt boardsin		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
586	MAT-05424	BMT-L.29.A	6MMthickness(Density550kg/Cum,Weight9.5Kg)	sqmt	630
587	MAT-05425	BMT-L.29.B	11MMthickness(Density500kg/Cum,Weight16.5Kg)	sqmt	1080
588	MAT-05426	BMT-L.29.C	18MMthickness(Density650kg/Cum,Weight35Kg)	sqmt	2145
		M.SECTION	**CEILINGS,WALLPARTITIONS& WALLLININGS**		
		I.SUB-SECTION	**FALSECEILINGs-TILES/ SHEETS**		
589	MAT-01236	BMT-M.01	GypsumBoardtilesofsize notlessthan 0.595Mx0.595M of12.5 mmthickasperIS 2095-1992	1 Sqm	**238**
590	MAT-01237	BMT-M.02	GypsumBoardtilesofsize notlessthan 0.595Mx0.595M of9 mm thickasperIS2095 -1992	1 Sqm	**232**
591	MAT-01238	BMT-M.03	GypsumBoardPlainsheet12.5mmthickas per IS 2095-1993	1 Sqm	**210**
592	MAT-01263	BMT-M.28	14 mm -Mineral Fiber sheet 600 x 600ofBoard/TegularEdgetileswithaHumidityResistanceof80%RH,AverageNRC0.50,LightReflectance >80%, Thermal Conductivity λ = 0.052to 0.057 w/mk, Fire Performance Class0/Class1	1 Sqm	**524**
593	MAT-01264	BMT-M.29	15 mm -Mineral Fiber sheet 600 x 600ofBoard/TegularEdgetileswithaHumidityResistanceof90%RH,AverageNRC0.50,LightReflectance >80%, Thermal Conductivity λ = 0.052to 0.057 w/mk, Fire Performance Class0/Class1	1 Sqm	**614**
594	MAT-01265	BMT-M.30	16 mm -Tegular Edge 600 x 600 ofBoard / Tegular/ Micro look Edge tileswith a Humidity Resistance of 99% RH,AverageNRC0.60,LightReflectance >88%, Thermal Conductivity λ = 0.052to 0.057 w/mk, Fire Performance Class0/Class1	1 Sqm	**661**
595	MAT-01266	BMT-M.31	12mm-MineralFibersheet600x600(Square/Tegular) Edgetiles	1 Sqm	**406**
596	MAT-01271	BMT-M.36	SupplyofThermocole 12mmthicksheets	1 Sqm	**24**
597	MAT-01272	BMT-M.37	SupplyofThermocole 19mmthicksheets	1 Sqm	**41**
598	MAT-01275	BMT-M.40	CalciumSilicateBoards -6mmthick	1 Sqm	**198**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
599	MAT-01276	BMT-M.41	CalciumSilicateBoards -8mmthick	1 Sqm	**263**
600	MAT-01277	BMT-M.42	CalciumSilicateBoards -10mmthick	1 Sqm	**330**
601	MAT-01278	BMT-M.43	CalciumSilicateBoards -12mm thick	1 Sqm	**395**
602	MAT-01286	BMT-M.51	SupplyingandfixingoffalseceilingusingPlasterofparisBoards**12mmthick**withstandardGIceilingangles,sectionsperimeterchannelsincludingcostandconveyanceofallmaterialsand labourchargesetccomplete	1 Sqm	**405**
603	MAT-01287	BMT-M.52	SupplyingandfixingoffalseceilingusingPlasterofparisBoards**10mmthick**withstandardGIceilingangles,sectionsperimeterchannelsincludingcostandconveyanceofallmaterialsand labourchargesetccomplete	1 Sqm	**338**
604	MAT-01288	BMT-M.53	Designer ceiling Cement Boards - thickness3.2mm	1 Sqm	**212**
605	MAT-01289	BMT-M.54	HighpressuresteamcuredCementBoards4mmthick	1 Sqm.	**113**
606	MAT-01290	BMT-M.55	HighpressuresteamcuredCementBoards6mmthick	1 Sqm.	**170**
607	MAT-01291	BMT-M.56	HighpressuresteamcuredCementBoards8mmthick	1 Sqm.	**225**
608	MAT-01292	BMT-M.57	HighpressuresteamcuredCementBoards10 mmthick	1 Sqm.	**283**
609	MAT-01293	BMT-M.58	HighpressuresteamcuredCementBoards12 mmthick	1 Sqm.	**339**
610	MAT-01294	BMT-M.59	HighpressuresteamcuredCementBoards14 mmthick	1 Sqm.	**395**
611	MAT-01295	BMT-M.60	HighpressuresteamcuredCementBoards16 mmthick	1 Sqm.	**452**
612	MAT-01296	BMT-M.61	HighpressuresteamcuredCementBoards18mmthick	1 Sqm.	**508**
613	MAT-01297	BMT-M.62	HighpressuresteamcuredCementBoards20 mmthick	1 Sqm.	**564**
614	MAT-01298	BMT-M.63	HighpressuresteamcureddesignerCement Boards4mmthick	1 Sqm.	**166**
615	MAT-01299	BMT-M.64	HighpressuresteamcureddesignerCement Boards6mmthick	1 Sqm.	**245**
616	MAT-01305	BMT-M.70	SupplyandfixingofCEMENTBONDEDPARTICLEBOARDS(IS14276)false ceilingusing8MMCEMENTBONDEDPARTICLEBOARDSwithgalvanized	1 Sqm	**924**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			and pre painted steel T section of size24mm x 38mm x 0.3 mm for main T dutyprepunchedtoacceptcrossTsectionof size 24mm x 30mm x 0.3 mm dulypunched at both ends for insertion intomain T. The grid size will be 610mm x610mm.Theframework(grid)issuspende d to the roof byusing G.I flatof0.60mmor14-gaugeG.Iwirewithnecessary fixers to the roof and framework.CEMENTBONDEDPARTICL E BOARDSlayonthegrid.Thecostinclusive of necessary hardware, labor,one coat of primer (Both side) and twocoatsofsmoothfinish onvisibleside.		
617	MAT-01314	BMT-M.79	Providingandfixingfalseceilingconsisting of600mmX600mm,SolidPVCinsulationp anelshavingwallthickness of 1mm thick plain PVC rigidfoam sheet and EPS as defined in ofdesiredthicknessdependingoninsulatio n required shall be insert in aframeworkmadeusinganodizedaluminiu mTeesectionofsizes1”X1”(25X25mm, 19 gauge or 1mm thick) insquarepatternofgridsizesof2’X2’(600X 600mm).Thealuminiumframework is supported from the ceilingwiththehelpofG.I.hookandG.I.wire/ 6mm.M.S. rods of required sizes tomaintain proper level etc. the aluminiumframework is supported on side wall withthe use of aluminium 1”X1” (25X25mm)angles,completeasperdirecti onofEngineer-in-Charge,manufacture’sspecification& drawing	1sqm	**1179**
618	MAT-01315	BMT-M.80	MineralFibreCeilingTileof0.595mmx 0.595mmof 13mmthickSquare Edge-**FissuraFineModel**	1 Sqm	**321**
619	MAT-01316	BMT-M.81	MineralFibreCeilingTileof0.595mmx 0.595mmof 13mmthickSquare Edge-**SpeckleModel**	1 Sqm	**359**
620	MAT-01317	BMT-M.82	MineralFibreCeilingTileof0.595mmx 0.595mmof 13mmthickSquare Edge-**TexturaModel**	1 Sqm	**397**
621	MAT-01318	BMT-M.83	MineralFibreCeilingTileof0.595mmx 0.595mmof15mmthick**StandardRegular Edge**	1 Sqm	**406**
622	MAT-01319	BMT-M.84	Mineral FibreCeilingTile of0.595 mmx 0.595mmof15mmthick**FissuraFineMod el**	1 Sqm	**416**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
623	MAT-01320	BMT-M.85	Mineral FibreCeilingTile of0.595 mmx 0.595mmof15mmthick**SpeckleModel**	1 Sqm	**434**
624	MAT-01321	BMT-M.86	MineralFibreCeilingTileof0.595mmx 0.595mmof15mmthick**TexturaModel**	1 Sqm	**471**
625	MAT-01322	BMT-M.87	Supply and fixing of **PVC false ceiling**onMS/GImadeskeletonframework.The frame shall be 24 X 48mm MS tubesection fixed along with the wall.Theentireframeworkshallbeconcealed withPVCsectionhavingoveralldimensions of 6 X 250mm with a wallthickness of 1mm ± 0.3mm with tongueandgroovesystem,providedwithnecessaryarrangementsforelectricalconnections, complete, for finished itemofwork.	1 Sqm.	**1308**
626	MAT-08745	BMT-M.96	**Absorptive false ceiling** 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 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 Cavity Filling: Ceiling frame work shall be back lined by using polyester wool having density of 1000 GSM and 50mm thick Boarding:	1 Sqm.	**2250**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			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 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.		
627	MAT-08746	BMT-M.97	Reflective false ceiling Supply and installation of 12.5mm thick plain gypsum plaster board 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. Boarding: 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. Finishing: 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.	1 Sqm	**3170**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
		II.SUB-SECTION	FALSECEILINGs-SECTIONS&ACCESSORIES		
628	MAT-01239	BMT-M.04	G.I.CeilingAngle-25mmx10mmx 0.55mm	1RM	**69**
629	MAT-01240	BMT-M.05	G.I.CeilingSection51.5mmx26mmx 10.5mmx 0.55 mmthick	1RM	**79**
630	MAT-01241	BMT-M.06	G.I.IntermediateSection45mmx15mmx 15mmx 0.9 mm	1RM	**78**
631	MAT-01242	BMT-M.07	G.I.PerimeterChannel-20mmx27mmx30mm(web) of0.55 mmthick	1RM	**69**
632	MAT-01243	BMT-M.08	G.I.-PrecoatedFinelineGrid25mmx25mmx 0.7mm	1RM	**38**
633	MAT-01244	BMT-M.09	G.I.-PrecoatedFinelineGrid15mmx25mmx 0.7mm	1RM	**34**
634	MAT-01245	BMT-M.10	GI -Precoated -T-Sec-24mm x38mmx0.7mmthick	1RM	**50**
635	MAT-01246	BMT-M.11	HotdippedGIAngle-Precoated-Grid:19mmx 19mm	1RM	**37**
636	MAT-01247	BMT-M.12	PolyesterpaintedGI-TSection-24x32mm	1RM	**46**
637	MAT-01248	BMT-M.13	PolyesterpaintedGI-TSection-24x25mm	1RM	**41**
638	MAT-01249	BMT-M.14	PolyesterpaintedGI-TSection-24mmx 27mm	1RM	**42**
639	MAT-01250	BMT-M.15	AluminiumAngle:24mmx24mm	1RM	**26**
640	MAT-01251	BMT-M.16	AnodisedAluminiumTSection:24x 24.5x2.4 mm	1RM	**31**
641	MAT-01252	BMT-M.17	ConnectingClips	1 Each	**3**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
642	MAT-01253	BMT-M.18	RawlPlug	1 Each	**2**
643	MAT-01254	BMT-M.19	6mm NylonRawlPlug	1 Each	**4**
644	MAT-01255	BMT-M.20	SoffitCleats	1 Each	**3**
645	MAT-01256	BMT-M.21	DrywallScrews -25 mm	1 Each	**2**
646	MAT-01257	BMT-M.22	JointingCompound	1Kg	**27**
647	MAT-01258	BMT-M.23	JointingPaperTape	1RM	**4**
648	MAT-01259	BMT-M.24	DrywallTopCoat	1Litre	**130**
649	MAT-01260	BMT-M.25	UniversalHoldingClips	1 Each	**3**
650	MAT-01261	BMT-M.26	4mm DiaGIConnecting Rod	1RM	**12**
651	MAT-01262	BMT-M.27	2mm DiaGIConnecting Rod	1RM	**8**
		III.SUB-SECTION	**WALLPANELLS&WALL LININGS**		
652	MAT-01274	BMT-M.39	Providing wooden panelling 12 mm thickonesidelaminatedsheetfixedonwooden frame of BT wood size 50.8 mmx25.4mm(2"x1")atdistanceof609.6mm (2'-0") intervals of both waysproviding 3/4" x 1/2" (19.05 mm x 12.7mm)sizeBTwoodornamentalcoverbeading and necessary screws, fevicolgluecompleteforfinisheditemof work.	1 Sqm	**1405**
653	MAT-01267	BMT-M.32	Perforated wall panels channeled woodworkssheetsofwidth128mm,thickness of 16mm and length 2440 mmmade of a high density particle boardsubstrate with a laminatedfacing aspertheapprovedshade/Species&Finish and a melamine balancing layerontherevereside,withaspecialperforation pattern fluted perforation onthe visible surface with a minimum sagresistanceofRH90andafireratingclass of 1 as per Part 7 of BS 476 with a“tongue-and-grooved”edgesandthebackoftheperforatedpaneliswithsound absorbing non-woven acousticalfleece	1 Sqm	**2318**
654	MAT-01300	BMT-M.65	Supplyandfixingofwallpanelling(water,fireandTermiteproof)withframe work made of GI stud profile ofsize48x40x10x0.6mmthickplaced	1 Sqm.	**816**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			atevery610mmC/Cintervalsfixedvertically in between floor and roof `U'track of size 50 x 30 x 0.6 mm thick dulyfixedwithselfexpansionscrewsandwith 8 mm thick E-board / 6 mm thick E-board classic cladded around with selftapping self embedding screws fixed atevery 300 mm (centres) leaving a 3 mmgap between two panels of width 2'-0".TheGapwillbecoveredwithadecorative beading.Surfacewillbegivenasmoothfinishoveracoatofprimer. - With 8 mm Designer CEMEMTBONDEDBOARD		
655	MAT-01301	BMT-M.66	**ITEMDELETED**		
656	MAT-01306	BMT-M.71	SupplyandfixingCEMENTBONDEDPARTICLE BOARDS(IS 14276) wall panelingusing10MMCEMENTBONDED PARTICLE BOARDS with frame work made of GI stud section ofsize48mmx35mmx0.55mmthickplaced at every 610 mm C/C intervalsverticallyandat1200mminternals horizontally fixed to the wall by means ofselfexpansionscrewsandcaps.CEMENT BONDED PARTICLE BOARDSistobefixedtoframebymeans of self taping screws placed atevery300mmintervalsleaving3mmgapbetweentwopanels.Thecostinclusive of one coat o primer and twocoatsofsmoothfinishandcost&conveyanceofallmaterials,laborchargesetc.completeasperthedirection ofEngineerincharge.	1 Sqm	**1161**
657	MAT-01309	BMT-M.74	Supply and fixing of CEMENT BONDEDPRE-LAMINATEDPARTICLEBOARDS wallpanelingusing12MMCEMENTBONDEDPRE-LAMINATEDPARTICLE BOARDS with frame work made of G.Istud sectionof size 48mm x 35mm x0.55mm thickplacedat every610mmintervalsverticallyandat1200mminternals horizontally fixed to the wall bymeansofselfexpansionscrewsandcaps.LAM is to be fixed to frame bymeans of self-taping screws placed atevery 300mm intervals leaving 3mm gapbetween two panels. The cost inclusiveofConveyanceofmaterials,Laborchargesetc.,completeasperthedirection ofEngineerincharge	1 Sqm	**1763**
658	MAT-01312	BMT-M.77	ProvidingandfixingINSULATEDPVC	1Sqm	**1696**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			WALL PANELING shall consist of PVCinsulated panelshaving wallthicknessof1mm/1.5mm/2mmPVCsheetandthedesiredthicknessofEPS(dependent on theinsulation required)screwed into the wall using screwsofadequatelength.Thescrewsshallbeplaced at a distance of 150mm and shallbe 25mm from the edge of the insulatedpanel on all from sides of the panel. ThePVC strips of 5mm thick PVC sheet ofwidth75mmfeatheredattheedgesshallbestuckusingsolventcementadhesiveattheplaceswheretwopanelsarejoined,soatocoverthescrew of both the panels, using solventcement.90heatbentstripsof5mmthickPVCsheetsofwidth75mmX75mm feathered at the edges shall bestuckatwalljoints/pillarsetc.,complete as per direction of Engineer-in-Charge, manufacture's specification &drawing		
659	MAT-01313	BMT-M.78	ProvidingandfixingplainPVCrigidfoam sheet wall panelling of thickness5mmconsistingofpanelshaving size1220mmX2440mmstuckoninnerframe work of 25mm wide strips of 5mmthick PVC rigid foam sheet. The stripsshould have in their centre a grove of6mm width and 2mm depth for sinkingthe head of the screw used to fix thestrips to the wall and should be placedverticallyatequalintervalsof405/407mm centre to c entre. The PVCstripsshallbefixedtothewallusing65mmlongM.S.screwsthroughthegrooveinthestripbyusingPVCfasteners.Thedistancebetweentwoscrewsshallnotbemorethan300mm.a groove of 2mm may be left at the jointof two panels for aesthetic looks. Thisframework is done for making existingwallsurfaceinensuredlevelandfor sticking the wall panelling sheet (panel)on it. The exact size of the panel andcorrespondinglyofthegridMaybevaried depending n the size of the wall.However it must be ensured that a stripsof 5mm thick PVC sheet of width 75mmfeathered at the edges shall be stuck atthe places where two panels are joined,using solvent cement. , complete as perdirectionofEngineer-in-Charge,	1Sqm	**1612**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			manufacture'sspecification&drawing		
660	MAT-01323	BMT-M.88	Supply andfixingof wallpanellingontheframeworkofwoodedrippersof24X 24mm of required size.The entireframework shall be panelled with PVCsection having overall dimensions of 6 X250mm with a wall thickness of 1mm ±0.3mm.Thepanelsarejoinedwithtongue and groove system.Necessarycut-outs for electrical connections to beprovidedatrequiredplacescomplete,for finisheditemofwork.	1 Sqm.	**1239**
			Supply and fixing of wall lining fixing toGI channels of perimeter channel 30mmx27mmx0.55thickandceilingchannelsof51.1mmx26mmx10.5mmx 0.55mm thick and fixing and finishingusingjointcompoundandglassfibretape complete finish as per specificationwithoutpaintingforfinisheditemofwork:		
661	MAT-01282	BMT-M.47	A)**using8mmthickCalciumsilicateboards**	1 Sqm	**702**
662	MAT-01283	BMT-M.48	**B)Using10mmthickCalciumsilicateboards**	1 Sqm	**773**
663	MAT-01284	BMT-M.49	C)**Using12mmthickCalciumsilicateboards**	1 Sqm	**844**
664	MAT-05430	BMT-M.95	Providing andfixing in positionwallpanelling to all heights with eco friendlylight weight calcium silicate panels/tilesGlobe Design of size 595mm x 595mmhaving square/butt edge havingNRC(NoiseReductionCoefficient) of0.5to 0.75 as per IS 8225:1987, Lightreflectance of 85%(minimum), NonCombustible as per BS:476 (part-4), fireperformance as per BS:476 (part-6&7),humidityresistanceof100%andthermal conductivity < 0.043 W/m K asper ASTM 518:1991, comprising of aframe made from especially fabricatedgalvanised mild steel sheet0.50 mmthick pressed section (galvanizing @120grams per sqm including both sides)i.e.verticalstudsofsize48x34x36mm are placed at 600mm center tocenter in a floor and ceilingchannelsectionofsize50x32mfixed tothefloor and soffit at 600mm centers using12mm dia,50mm long wedge typeexpanded zinc alloy dash fastner with10mmbolt.Glasswoolof50mm	1 Sqm	**2155**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			thickness is then to be inserted in theslots and finallycalcium silicate noncombustiblepanels/tilesaretobescrewfixed with self tapping pan head nickelcoated mild steel screws of size 13 x3.2mm on to this grid leaving an evengrooveof1 mmbetween thepanels. The joints between the panels are to beduly jointed and finished usingrecommended jointing calcium silicatebased compound & fiber joint tape roll50mm wide (90 metre)roll and twocoats of primer suitable for panelling aspermanufacturer'sspecificationasperdirection of Engineer-in-Charge allcomplete.(With 15 mm thick integraldensified fully perforated light weightcalcium silicatepanels/tiles)		
665	MAT-08747	BMT-M.98	**Wall-Absorptive wall panelling** 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 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 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. 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.	1 Sqm	**4580**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
666	MAT-08748	BMT-M.99	**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 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 fastners 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. 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 Boarding: 12mm thick Laminared 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 colour	1 Sqm	**880**
		IV	**PARTITIONS**		
667	MAT-01273	BMT-M.38	Supply & fixing 75mm thick metal studpartition using 12.5 mm thick Gypboardconforming to IS 2095-1982 screw fixedto eitherside to 48 mmstudsof 0.55mmthickwiththe50mmfloorandceiling channel 0.55 mm and the jointsduly finished with joint compound, papertape and two coats Dry wall top coat asperspecification.	1 Sqm	**1090**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
668	MAT-01279	BMT-M.44	Supply and Fixing 66mm thick metalstud partition screw fixed to either sideof 48mm studs of 0.55mm thick with50mmfloorandceilingchannel0.55m mand the joints duly finished with joiningcompound, glass fibre tape and twocoats dry wall top coat as perspecification finishedItem of work- **using 8mm thick Calcium silicateboards**	1 Sqm	**1230**
669	MAT-01280	BMT-M.45	Supply and Fixing 66mm thick metalstud partition screw fixed to either sideof 48mm studs of 0.55mm thick with50mmfloorandceilingchannel0.55m mand the joints duly finished with joiningcompound, glass fibre tape and twocoats dry wall top coat as perspecification finishedItem of work - **Using 10mm thick Calcium silicateboards**	1 Sqm	**1380**
670	MAT-01281	BMT-M.46	Supply and Fixing 66mm thick metalstud partition screw fixed to either sideof 48mm studs of 0.55mm thick with50mmfloorandceilingchannel0.55m m andthejointsdulyfinishedwithjoiningcom pound, glass fibre tape and twocoats dry wall top coat as perspecification finishedItem of work -Using 12mm thick Calcium silicateboards	1 Sqm	**1530**
671	MAT-01285	BMT-M.50	SupplyandFixing66mmthickmetalstudpar titionusing2layersof12mmthick Calcium silicate boards screw fixedto either side to 48mm studs of 0.55mmthickwith50mmfloorandceilingch annel 0.55mm.Theboards jointsaretobestaggeredtoavoidthroughpa ssage. Ceramic wool of 50mm thick,64kg/m3 density is to be placed in cavityof the partition. The joints duly finishedwith joining compound, glass fibre tapeand twocoats dry wall top coat as perspecificationwithoutpaintingforfinishe d itemofwork	1 Sqm	**3900**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
672	MAT-01285	BMT-M.50	SupplyandFixing66mmthickmetalstudpartitionusing2layersof12mmthick Calcium silicate boards screw fixedto either side to 48mm studs of 0.55mmthickwith50mmfloorandceilingchannel 0.55mm.Theboards jointsaretobestaggeredtoavoidthroughpassage. Ceramic wool of 50mm thick,64kg/m3 density is to be placed in cavityof the partition. The joints duly finishedwith joining compound, glass fibre tapeand twocoats dry wall top coat as perspecificationwithoutpaintingforfinished itemofwork	1 Sqm	**3900**
673	MAT-01302	BMT-M.67	Supply and fixing double skin CEMENTBOARD partition with Frame work madeofGIstudprofileofsize48x40x10x 0.6 mm thick placed at every 610 mmC/Cintervalsand915mmhorizontalintervals duly fixed with self expansionscrews,theE-boardof8mmthickcladdedaroundwithselftappingselfembeddingscrewsfixedatevery300mm(centres)leaving3mmgapbetween two panels of width 2'-0" (610mm).Thegapwillbecoveredwithdecorativemouldingsurfacewillbegivenasmoothfinishovercementprimer. The rate is inclusive of cost andconveyance of all materials and labourchargesetc.complete.	1 Sqm.	**1240**
674	MAT-01303	BMT-M.68	ProvidingandfixingOf50mmthickSOLID WALL PANEL Sandwich panelsmade of light Weight FRACC two 4mmthicknon-asbestosfibrereinforcedcementsheetson eithersideofthelightweight concrete core composed ofPortlandcementbinderswithtongueand groove arrangement. The bottom ofthepanelshallbefixedtothefloorchannel madeupof1mmthickGIchannels of size 14x50x25 mm fixed tothe existing floor with 6x60mm nylon selfexpansion screws at 600 mm C/C andtopofthepanelfixedwithceilingchannel madeoutof1mmthickGIChannelofsize38x50x38mmdulyfixed	1sqm	1540

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			totheexistingceilingwith6x60mmnylon self expansion screws at 600 mmC/C. All the tongue and groove joints ofthe panels have to be properly cleanedand both the panels have to be fixed byapplyingthemixtureofflyashandsodium silicate in between and Everestjointingcompoundalltheexposedjoints. The rate includes cost of 50mmSOLIDWALLPANELS,G.I.Flooran d ceilingchannel.Thepanelscanbeflushed by using paper tape and Everestjointingcompound allcomplete		
675	MAT-01304	BMT-M.69	ProvidingandfixingOf75mmthickSOLID WALL PANEL Sandwich panelsmade of light Weight FRACC two 4mmthicknon-asbestosfibrereinforcedcementsheetson eithersideofthelightweight concrete core composed ofPortlandcementbinderswithtongueand groove arrangement. The bottom ofthepanelshallbefixedtothefloorchannel madeupof1mmthickGIchannels of size 14x75x25 mm fixed tothe existing floor with 6x60mm nylon selfexpansion screws at 600 mm C/C andtopofthepanelfixedwithceilingchannel madeoutof1mmthickGIChannel of size 38x75x38mm duly fixedtotheexistingceilingwith6x60mmnylon self expansion screws at 600 mmC/C. All the tongue and groove joints ofthe panels have to be properly cleanedand both the panels have to be fixed byapplyingthemixtureofflyashandsodium silicate in between and Everestjointingcompoundalltheexposedjoints. The rate includes cost of 75mmSOLID WALL PANEL panels, G.I. Floorand ceiling channel. The panels can beflushed by using paper tape and Everestjointingcompound allcomplete.	1 Sqm.	1840
676	MAT-01307	BMT-M.72	SupplyandfixingCEMENTBONDEDPARTICLEBOARDS(IS14276)double skinpartitionusingwith10MMCEMENT BONDED PARTICLE BOARDS made out of G.I. track sectionofsize50mmx35mmx0.55mmforfixingtotheroofandfloorandstudsection of size 48mm x 35mm x 0.55mmplacedintracksectionverticallyat610mmintervalsandat1200mmintervals horizontally fixed to the wall bymeansofselfexpansionscrewsand	1 Sqm	1770

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			capstothewallandroof.CEMENTBONDEDPARTICLEBOARDSistobe fixed both sides of frame work by usingself taping screws fixed at every 300mmintervals to the frame work leaving 3 mmgapbetweentwopanels.Thecostinclusive with one coat ofprimer andtwo coats of smooth finish and cost andconveyance of all materials to site, laborchargesetc.,completeasperthedirection ofEngineerin charge.		
677	MAT-01308	BMT-M.73	Supply and fixing of CEMENT BONDEDPRE-LAMINATEDPARTICLEBOARDS double skin partition using with 10 mmCEMENTBONDEDPRE-LAMINATED PARTICLEBOARDSmadeoutofG.Itrack section of size 50 mm x 35mm x0.55mm for fixing to the roof and floorandstudsectionofsize48mmx35mmx0.55mmplacedintracksectionverticallyat610mmintervalsandat1200mminternalshorizontally.Theframeisfixedbymeansofself expansion screws and caps to the wall /roof. LAM is to be fixed both sides oftheframeworkbyusing2mmthickelectroplatedCRflatsectionleaving3mm gap between two panels. The costinclusive of cost and conveyance of allmaterialstosites,othermaterialsincidentalsand labourchargesasperthedirection ofEngineerincharges.	1 Sqm	**2440**
678	MAT-01310	BMT-M.75	Supply and fixing of CEMENT BONDEDPRE-LAMINATEDPARTICLEBOARDS aluminum glazed partitions using 10 MMCEMENTBONDEDPRE-LAMINATED PARTICLEBOARDSand5mmthickplain glass to full height. Using with LAMtoaheightof0.91meteratbottompanel and remaining height with glassandaluminumsectionsanodizedto12to 15 microns and of sections of size37mmx62mmand1.5mmthicknesswithonemetercentretocentredulyfixedwithclipbeadingonbothsidesincludingfixingtheframetopillarsby M.S. flats, bolts and nuts including costandconveyanceofallmaterialsetc.,completeasdirectedduringexecution.	1 Sqm	**3030**
679	MAT-01311	BMT-M.76	Providingandfixing50mmthickSEMIHEIGHT SOLID PVC PARTITION consistingof49mmsandwichPVCpanelmadeoutof36mmhighdensity	1sqm	**2576**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			expandedpolystyrenesheet(E.P.S.-Thermocole)stuckonbothsidewith2mmthickplain/printed/prelamPVCrigid foam sheets reinforced with frameworkmadefrom35mmX5mmM.S.Angle.InbetweentwoM.S.Angles5mmthickplain/printed/prelamheatmouldedPVC'C' channelofsize50X100mm with feathered edges shallbe fixed on the floor & 50X75mm withfeatherededgesplain/printed/prelamPVC 'C' channel. In between adjoiningEPS sandwiched PVC partitions panel5mm thickX75mm widthplain/printed/prelamPVCsheetfeatheredatedgesshallbestuckonfront & back face using solvent cementetc. in places where two partitions meettofroman'L'shapethepanelsarejoined5mmthickplain/printed/prelamheatmoulded"Rajshri"PVC'L'sectionofsize75mmX75mmwithfeatherededgesshallbefixedonfront&backside.Thisisdonetomaintainthesymmetry of design. An additional 5mmthick PVC strip of 40mm width is to bestuckontheinteriorsideofthe'C'ChannelusingPVCsolventadhesive,complete as per direction of Engineer-in-Charge, manufacture's specification &drawing		
680	MAT-01324	BMT-M.89	Supply and fixing of PVC Double SkinPartition.The entire framework shall becarried out by mild steel section havingoverall dimensions of 24 X 48mm with awallthicknessof1.2mm.Theentireframework shall be concealed with PVCsection having overall dimensions of 6 X250mm with a wall thickness of 1mm ±0.3mm both sides. Glass provision/Doorprovisioncanbeprovidedalongthepartitionwhereverrequired.Partitions can be made full orhalfasperrequirementcomplete,forfinished itemofwork.	Sqm.	2175
			Supply and fixing of partitions made ofseccolor pre-painted steel (base steel asper IS 513 of 0.58 mm thick 'D' quality,galvanizedasperIS277withZincof 120 GSM).Primer coated with epoxyprimerof5-7micronsthick,finishpainted with a polyester paint of 12-16microns thick alkyd backer.Section forouter frame should be 46x52mm,		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			section for shutter should be 46x46mm,section for mullion should be 46x70mm,section for beading should be 18x25mmand section for middle and bottom rail(Lock Rail and Kick Rail) of size shouldbe 23x130mm.The partition should bepaneledwith9mmpre-laminatedparticle board to a height of 0.91m fromthe bottom, and remaining height with5mmthickplainglassWithEthylPropylene DiamineMonomer(EPDM)Gaskets.The sections are to be cut tolength, mitre joined with corner bracketCentremullionsaretobefixedusingmullioncap.GasketsmadeofEthylPropyleneDiamineMonomer(EPDM).Cornerbracketsmadeof CRCAwithzinc phosphate.Mullion caps made ofGlass filled nylon.The above framesshould be fixed to the concrete/masonrywall by means of self expanding screws,andcomplete forfinisheditemof work.		
681	MAT-01325	BMT-M.90	FixedPartition:Outerframesectionsize of 46x52mm, mullion section shouldbe of46x70mm,fixedbeading shouldbeof18x25mm.	1sqm	4477
682	MAT-01326	BMT-M.91	Fixed Partition with Door:Outer framesectionsizeof46x52mm,mullionsection shouldbeof46x70mm,fixedbeading should be of 18x25mm, sectionfor shutter should be of 46x46mm andsection for middle & bottom should be ofsize23x130mm.	1sqm	5105
			DRYWALLPARTITIONWITH50MMTHICK V-PANEL		
683	MAT-01327	BMT-M.92	CEMENT BONDED PARTICLE PLANK-8mm-Availablesize-150mmX2440mmand200mm X2440mm	1 Sqm	548
684	MAT-01328	BMT-M.93	CEMENTBONDEDPARTICLEPLANK-10mm- Available size-150mmX2440mmand 200mm X2440mm	1 Sqm	672
685	MAT-01329	BMT-M.94	CEMENT BONDED PARTICLE PLANK-12mm- Availablesize-150mmX2440mmand 200mm X2440mm	1 Sqm	827
		Note: Items BMT-M.33, BMT-M.34, and BMT-M.35 areremoved inthesectionM andarebroughtasnewitemsintheSectionDas BMT-D.18,BMT-D.19andBMT-D.20.			
		N.SECTION	**DOORS (Landingcost–includingloading,costof conveyance,unloading)**		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
		I.SUB-SECTION	DOORFRAMES		
686	MAT-05431	BMT-N.80	Powder Coated Mild Steel Hallow singlerebate door frames manufactured usingcoldrollformedprocesssteelsheetof 1.25 mm thick bright (Cold Rolled CloseAnnealed(CRCA)andprofilesizeof105 x 60 mm conforming to IS 4351 - 2003 including pretreatment, Galvanizedas per IS:277, zinc phosphating finishedwithThermosetting Polyurethane paintof Aliphatic Grade providing high levelsofscratchresistanceanddurability/Epoxypolyesterpowderforpowder coating paint thickness 60 – 65microns(Dryfilmthickness)StainlessSteelBallBearingButtHinges3mmthickfixedflushtotheframewithHinges,BaseTies,HoldfastLugs,MortarGuards,shockabsorbersandprovision for Tower Bolts, Aldrops, Lock& Strike plates etc. for both single anddoubleshutterdoors	1RM	**660**
687	MAT-05432	BMT-N.81	Mild Steel Hallow single rebate generalpurposedoorframesmanufacturedusingcoldrollformedprocesssteelsheetof1.25mmthickbright(ColdRolledCloseAnnealed(CRCA)andprofile-Bofsize105x60mmconforming to IS 4351 - 2003 includingpretreatment, phosphating with Hinges,BaseTies,HoldfastLugs,MortarGuards, shock absorbers and provisionfor Tower Bolts, Aldrops, Lock & Strikeplatesetc. forboth singleanddoubleshutterdoors	1Rm	**360**
688	MAT-01330	BMT-N.01	Providingandfixingfactorymadepolyvinyl chloride (PVC) Door Frame ofthesize50x47mmwithawallthickness of 5mm, made out of extruded10 mm rigid PVC foam sheet, mitre cutat two corners and joined with 2nos. of150mm long brackets of 15x15mm M.S.squaretube.Thetwoverticaldoorprofilesaretobereinforcedwith19x19mmM.S.Squaretubeof19gauge. The door frame shall be fixed tothewallusing65/100mmlongM.S.Screws through the frame by using PVCfasteners.Aminimumof4nos.ofscrews to be provided for each verticalmember & minimum 2nos. for horizontalmemberetc.completeasper	1Rm	**330**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			manufacturersspecificationanddirectionofEngineer-in-Chargeforfinished itemofwork		
689	MAT-01334	BMT-N.05	SINGLE SIDE PRELAM SOLID PANELPVCDOORFRAME(CHOUKHAT): Providing and fixing factory made PacsinglesidePrelamdoorframeofthesize 50X47 mm with a wall thickness of5mm, made out of extruded 5mm rigidPac single side prelam sheet, meter cutat two corners and joined with 2nos. of150mmlongbracketsof1515mmMS.Square tube. The two vertical doorprofilesaretobereinforcedwith19X19 mm MS. square tube of 19guage.The door frame shall be fixed to the wallusing65/100mmlongMS.Screwsthroughtheframebyusing Pacfasteners. a minimum of 4nos. of screwsto be provided for each vertical memberandminimum2nos.forhorizontal memberetc.completeaspermanufacture specification and directionofEngineer-in-charge.	1Rm	**330**
690	MAT-01361	BMT-N.32	Supply and fixing of door frame made ofhollowextrudedPVCsectionhavingdimensions of 40 X 57mm with the wallthicknessof2mm+/- 0.2mmdulyreinforced with seasoned wood plank atthe hinges side. The door frame top 2corners shall be metri-cut/ welded. PVCDOORFRAME	1RM	**237**
691	MAT-01362	BMT-N.33	Supplyandfixingofdoorframemadeofhollow extruded PVC sectionhavingdimensions of 40 X 46 mm with the wallthickness of 2mm +/- 0.2mm dulyreinforced with seasoned wood plank atthe hinges side. The door frame top 2cornersshall be mitrecut/welded	1RM	**186**
692	MAT-01363	BMT-N.34	Supply & fixing of Door frames made ofallformedsectionsof1.25mmthickCRCA section, size should be 50x60mmwith32mmrebate.Thecorneroftheframeshouldbewelded.Theframeshouldbepaintedwithonecoatofprimerandfinishedpaintedwithpurepolyesterpaint.Theframeshouldbeprovidedwithapprovedqualitybutthinges of 3 Nos.complete for finisheditem.:Singleshutter3'-0"x7'-0"(914.4x2133.6mm) outer frame sectionsizeof50x 60mm	1RM	**215**

S.No	CFMScode	ItemCode	escriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
693	MAT-01364	BMT-N.35	Supply & fixing of Door frames made ofallformedsectionsof1.25mmthickCRCA section, size should be 50x60mmwith32mmrebate.Thecorneroft heframeshouldbewelded.Theframeshoul dbepaintedwithonecoatofprimerandfinish edpaintedwithpurepolyesterpaint.Thefra meshouldbeprovidedwithapprovedqualit ybutthinges of 3 Nos.complete for finisheditem.:Doubleshutter5'-0"x7'-0"(1524x 2133.6mm) outer frame section size of50x 60mm	1RM	**218**
694	MAT-01365	BMT-N.36	Supplying & fixing ofDoorframe madeof roll formed section of 1.25 mm thickCRCA section, size should be 50 x 60mm with 32 mm rebate. The corner ofthe frame should be welded. The frameshouldbepaintedwithonecoatofprim erandfinishedpaintedwithpurepolyesterp aint.Theframeshouldbeprovidedwithappr ovedqualitybutthinges of 3 Nos.Complete for finisheditem of work.: Single shutter 3'-0" x 7'-0"(914.4x2133.6mm) outer frame sectionsizeof50x 75mm	1RM	**250**
695	MAT-01366	BMT-N.37	Supplying & fixing ofDoorframe madeof roll formed section of 1.25 mm thickCRCA section, size should be 50 x 60mm with 32 mm rebate. The corner ofthe frame should be welded. The frameshouldbepaintedwithonecoatofprim erandfinishedpaintedwithpurepolyesterp aint.Theframeshouldbeprovidedwithappr ovedqualitybutthinges of 3 Nos.Complete for finisheditem of work.: Single shutter 5'-0" x 7'-0"(1524x2133.6mm)outerframesectionsi zeof50x 75mm	1RM	**252**
696	MAT-01367	BMT-N.38	Providingandfixingdoorframesfabricatedf romsectionsmadeofgalvanizedsteelpow dercoated(basesteelasperIS513,galvani sedasperIS 277withzincof120grams/squaremetre),th efactorymadesectionarepowdercoatedwi thpurepolyesterpowder of 50-60 microns thick with totalcoatedthicknessof1.25mm,sizeofdo or frame section is of 105 x 60 mmwith a rebate of 38 mm to accommodate35 mm thick door shutter, with groove toinsert gasket in the frame section, framesectionfilledwithpolyurethanefoam,	1RM	**750**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			cuttolength,andjoinedbywayofwelding,eachframeprovidedwith:a)2mmthickMSpowdercoatedbutthingesof100mmlong– 3Nos.forsingleshutter,6Nos.fordoubleshutter. b)CRCAelectroplatesstiffenersof6Nos. – 3in each vertical.c) 40 mm x200 mm x 1.2 mm hold fasts screwed tostiffeners – 6 Nos. with split end tail. d)Nylon Aldrop Receiver – 1 No. for singleshutterframe.e)TieRod– 1No		
697	MAT-01368	BMT-N.39	Providingandfixingofdoorframesfactorymade,internaldoorframeswithoutthreshold, fabricatedfromprepainted cold roll formed section 100 mmx 60 mm made of galvanized (base steelas per IS-513 'D' quality galvanized asper IS-277 with Zinc of 120 Gms/sqm)steelcolourcoatedsectionswith totalcoated thickness of 1 mm primer coatedwith epoxy primer of 5-7 microns thickfinish painted with polyester paint of 12-16 microns and back coated with alkydbacker of 5-7 microns, the frame sectionfilled with polyurethane (PU Foam) of 40kg/Cu.m and the sections cut to lengthand mitre joined by means of 1.25 mmthickCRCAelectroplatedcornerbrackets of size 75 x 75 mm and 1.25mm thick electroplated stiffeners of size150 mm for fixing hold fasts and hingeswithMSPowdercoatedfittingsa)6Nos M.S.ZTypeholdfastsmadeof30mmx 3 mm MS flat of 230 mm long, 3 NoseachsizeexpandablePVCcoveredscrew type fasteners b) 2.5 mm x 300mm long 'T' hinges /2.5 mm x 50 mm x50 mm x 100 mm two way but hinges (3Nos for single leaf or 2 Nos for Doubleleaf/leaf) c)12mmdiaMS tie rodatbottom with necessary size of nuts oneitherside.	1RM	**445**
698	MAT-01383	BMT-N.54	Providing & fixing **internalprelaminatedPVCdoorframe**ofsize 100 x 45 mm with a wall thickness of5mm, made of extruded 5 mm PrelamPVCfoamsheet,mitredcutattwocornersandjoinedwithtwonos.of150mm long brackets of 15 x 15 mm MSsquare tube, two verticaldoor profilesreinforced with 40 x 20 MS Tube of 19guagethroughouttheframeandthedoorframefixedtothewallusing65/100mmlong MSscrewsthroughthe	1RM	**550**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			framebyusingPVCfastenerswithaminimum of 3 nos of screws provided foreach vertical member and two nos. forhorizontal, etccompleteas perdrawingand direction of Engineer inCharge		
699	MAT-01401	BMT-N.72	PVCDoorframemadeoutofPVCmaterialconformingtoIS:10151:1982.Thedoorframeshallbemadefromextruded PVCSectioninoveralldimensionsof40mmx48mmhavingwall thickness of 1.1mm +/-0.3mm withusual process variation corresponding toSintex code number RUPS 414.Theframe shall be Reinforced with specialpolymericreinforcementasshowninndrawing to take up necessary hardware.The corner joint shall be mitre cut andwelded or joined by means of concealedcleats with necessary screws fittings.Atierodtobeprovidedatbottom.[Laminated Profile]	Per Rmt.	**196**
700		BMT-N.83	Providing and fixing factory made solidWood Polymer Composite (WPC) singleextrudedDoorFramesectionofsize with encapsulation of 8MM rigid layer onall the six surfaces. The door frame willhavearebatof32MM.		
701	MAT-05434	BMT-N.83.A	Door Frame section of 45x75 MM . Thetwo Vertical members are to be joinedtogetherwiththehorizontalmember using 8x50 MM long MS Star full threadscrews to be used with reverse forwardspeedcontrolhanddrillingmachine .Theready/assembleddoorframeisfixed to the wall using hold fast or boltfasteners.Aminimumof4No.sofscrews to be provided for each verticalmember & minimum 2no.s for horizontalmember.	1Rm	**506**
702	MAT-05435	BMT-N.83.B	Door Frame section of 45x90 MM . Thetwo Vertical members are to be joinedtogetherwiththehorizontalmember using 8x60 MM long MS Star full threadscrews to be used with reverse forwardspeedcontrolhanddrillingmachine .Theready/assembleddoorframeisfixed to the wall using hold fast or boltfasteners.Aminimumof4No.sofscrews to be provided for each verticalmember & minimum 2no.s for horizontalmember.	1Rm	**700**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
703	MAT-05436	BMT-N.83.C	DoorFramesectionof63.5x100MM .ThetwoVerticalmembersaretobejoinedtogetherwiththehorizontalmember using 8x75 MM long MS Starfullthreadscrewstobeusedwithreverseforwardspeedcontrolhanddrillingmachine.Theready/assembleddoor frame is fixed to the wall using holdfast or bolt fasteners.A minimum of 4No.s of screws to be provided for eachverticalmember&minimum2no.sforhorizontalmember.	1Rm	805
704	MAT-05433	BMT-N.82	Supplyandfixingoffactorymade**Bathroomdoorframes**withoutthreshold,fabricatedfrompre-paintedcold roll formed section 50mm x 50 mmmadeofgalvanized(basesteelasperIS – 513 'D' quality, galvanized as perIS-277 with Zinc of 120 Gms/sqm) steelcolour coated sections with total coatedthickness of 1 mm, primer coated withepoxy primer of 5-7 microns thick, finishpaintedwithpolyesterpaintof12-16micronsandbackcoatedwithalkydbackerof5-7micronsandtheframesectionfilledwithpolyurethane(P.U.Foam) of 40 Kg/Cum; and the sectionscut to length and mitre joined by meansof1.25mmthickCRCAelectroplatedcorner brackets of size 75 x 75 mm and1.25mm thick electroplated stiffeners ofsize150mmforfixingholdfastsandhingestogetherwiththefollowingMSPower coated fitting (Supply and fixing)of approved make. (a) 6 Nos M.S. Z. Type hold fasts madeof30mmx3mmMSflatof230mmlong, 3 Nos each side expandable PVCcovered screw type fasteners. (b) 2.5 mm x 300 mm long 'T' hinges /2.5mm x 50 mm x 100mm two way buthinges (3 Nos for single leaf or 2 Nos forDoubleleaf /leaf) (c)12mmDiaMStierodatbottomwithnecessary sizeofnutson eitherside.	1RM	**445**
		II.SUB-SECTION	**DOORSHUTTERSWITHOUT FRAMES**		
705	MAT-01341	BMT-N.12	Flushdoorshutters,solidbondwoodblockboard type with **teak ply on bothfaces.**:25mmthickconformingtoIS:2202	1sqm	**1790**
706	MAT-01342	BMT-N.13	Flushdoorshutters,solidbondwoodblockboardtypewith**teakplyonboth**	1sqm	**1860**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			faces.: 30 mmthick conforming toIS:2202		
707	MAT-01343	BMT-N.14	Flushdoorshutters,solidbondwoodblock board type with **teak ply on bothfaces**.:35mmthickconformingtoIS:2202	1sqm	**2031**
708	MAT-01344	BMT-N.15	Flushdoorshutters,solidbondwoodblock board type with **commercial plyon both faces**.: 25 mmthick conformingtoIS:2202	1sqm	**1041**
709	MAT-01345	BMT-N.16	Flushdoorshutters,solidbondwoodblock board type with commercial ply onboth faces.: 30 mmthick conforming toIS:2202	1sqm	**1232**
710	MAT-01346	BMT-N.17	Flushdoorshutters,solidbondwoodblock board type with commercial ply onboth faces.: 35 mmthick conforming toIS:2202	1sqm	**1396**
711	MAT-01347	BMT-N.18	Flushdoorshutters,solidbondwoodblock board type with commercial ply onboth faces.: 40 mmthick conforming toIS:2202	1sqm	**1564**
712	MAT-01348	BMT-N.19	Flushdoorshutters,solidbondwoodblock board type **with teak veneer ononefaceandcommercialplyonanotherface(lipping)**:20mmthickconforming toIS:2202	1sqm	**1960**
713	MAT-01349	BMT-N.20	Flushdoorshutters,solidbondwoodblockboardtypewithteakveneeronone face and commercial ply on anotherface (lipping): 25 mmthick conforming toIS:2202	1sqm	**1893**
714	MAT-01350	BMT-N.21	Flushdoorshutters,solidbondwoodblockboardtypewithteakveneeronone face and commercial ply on anotherface (lipping): 30 mmthick conforming toIS:2202	1sqm	**2096**
715	MAT-01351	BMT-N.22	Flushdoorshutters,solidbondwoodblockboardtypewithteakveneeronone face and commercial ply on anotherface (lipping): 35 mmthick conforming toIS:2202	1sqm	**2285**
716	MAT-01352	BMT-N.23	Flushdoorshutters,solidbondwoodblockboardtypewithteakveneeronone face and commercial ply on anotherface (lipping): 40 mmthick conforming toIS:2202	1sqm	**2612**
717	MAT-01354	BMT-N.25	Supplyandfixing**CementBondedParticleBoard(IS14276)singledoor**	1 Sqm	**1889**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			shutterusingwith16MMCementBonded Particle Board with all-round "U"sectionofsize**12mmx18mmx12mm**m adefrom0.6mmthickgalvanized,colorquot edcoldrolledsteelprofileswithnecessarys crewsfixedatevery 304.8 mm intervals. Thecost inclusiveof MS Nickel coated Aldrops of size 255mmlong2Nos.,200mmlongtowerbolts 1 No., 125 mm handles 2 Nos. 300mm long "T" hinge cost and conveyanceof all materials at site and applying1coatprimer,1coatofluppumand 2coats of synthetic enamel paint as perapproveddesignforfinisheditemofwor k.		
718	MAT-01355	BMT-N.26	Supply and fixing of**Cement BondedParticleBoard(IS14276)doorsh utters**usingwith16MMCementBondedPa rticleBoardwithallroundstyle “U” size of **20mmx18mm x20mm**made from 0.6mm thick galvanized pre-paintedcoldrolledsteelprofileswithCemen tBondedParticleBoardseparatingtwoshut terwith30mmx18mmx30mmSteppedlippi ngwith necessary screws fixed at every 1’-0”(304.8mm)intervals.MsNickelcoated 250 mm long aldrops 2 no’s, MSpowder coated 250mm long tower bolt2no’s , & 2no’s MS powder coated 125mm long grip handle. Including cost andconveyance of all materials at site andapplying one coat of primer, 2 coats oflappum and 2 coats of synthetic enamelpaintasperapproveddesignforfini shed itemofwork.	1 Sqm	**2654**
719	MAT-01408	BMT-N.79	Supply and fixing of **CEMENT BONDEDPARTICLEBOARDdoubledo orshutter**using16MMCEMENTBONDE DPARTICLEBOARDLAMwith allround“U”sectionsizeof20mmx18mm x20mm made from 0.6mm thickgalvanizedpre-paintedcoldrosteelprofileswithCEMENT BONDEDPARTICLE BOARD LAM separating twoshutter with 30mm x lled 20mm x30mmsteppedlipping with necessaryscrewsfixedat every 1’0” (304.8mm)intervals.ThecostinclusiveofM SNickel coated250mmlongaldrops2no’s,MSpow dercoated 125mmlong grip handle, 2 no’s M.S.P.C. Doorstopper.Includingcostandconveyan ce	1 Sqm	**2687**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			of all materials at site labor charges etc.,completefinisheditemofwork.		
720	MAT-01359	BMT-N.30	Supply and fixing of **CEMENT BONDEDPRE-LAMINATED PARTICLE BOARDS door shutter** made out of Usectionsofsize12x14x12madefrom0.6 mmthickppssectionswith12MM**CEMENT BONDEDPRE-LAMINATED PARTICLEBOARDS**withnecessaryscre wsfixedatevery1'.0"interwells.The hardware consists of 250mm longaldrop – 2 Nos.150mm Handle- 1 No ,150 mm long ms powder coated towerbolt1no.nicklecoated.Thecostisincl usiveofallincidentals,labortransportation charges.	1 Sqm	**2205**
721	MAT-01392	BMT-N.63	Supplyandfixingof**BOARD(conforming toIS 14862) door shutter**with all-round style "U" lipping size 15 x18 x 15 mm made from 0.8 mm thickpowder coated cold rolled steel profileswith16mmthick**V-BOARD**withnecessary screws fixed at 1'-0" interval250 mm long aldrops 2 nos. M.S. nickelcoated 250 mm long 1 no. M.S. TowerBolts Including cost and conveyance ofall materials at site and applying 1 coatof primer, 2 coats of luppum and 2 coatsofsyntheticenamelpaintasperappro veddesignforfinisheditemofwork.	1 Sqm	**1350**
722	MAT-01356	BMT-N.27	Supply and fixing of **Cement BondedParticle Board (IS 14276) LAM doubledoorshutter**using16MMCEMEN TBONDEDPRE-LAMINATEDPARTICLE BOARDS with all round "U" section sizeof 20mm x 18mm x 20mm made from0.6mm thick galvanized pre-painted coldrolled steel profiles with Cement BondedParticleBoard(IS14276)LAMsep aratingtwoshutterwith30mmx20mmx30m msteppedlippingwithnecessaryscrewsfix edatevery1'0"(304.8mm) intervals. The cost inclusiveofMSNickelcoated250mmlongal drops2no's,MSpowdercoated125mm long grip handle, 2 no's M.S.P.C.Doorstopper.Includingcostand conveyance of all materials at sitelabourchargesetc.,completefinishedit em ofwork.	1 Sqm	**1939**
723	MAT-01376	BMT-N.47	Mouldedpanelsolidcoreflushdoorsusingw ater-resistanthardwoodfibre	1 Sqm	**1637**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			HDF / MDF fibre boards skins of 2.5 mmthickdoors- 30mmthick		
724	MAT-01377	BMT-N.48	Mouldedpanelsolidcoreflushdoorsusing water-resistanthardwoodfibreHDF / MDF fibre boards skins of 2.5 mmthickdoors-35mmthick	1 Sqm	**1810**
725	MAT-01378	BMT-N.49	Solid core membrane flush doors usingrigid PVC membrane of 0.3 mm thick ofdifferent elegant shades doors - 30 mmthick	1 Sqm	**1350**
726	MAT-01379	BMT-N.50	Solid core membrane flush doors usingrigid PVC membrane of 0.3 mm thick ofdifferent elegant shades doors - 35 mmthick	1 Sqm	**1502**
727	MAT-01335	BMT-N.06	Providingandfixing**35mmthickBRANDFACTORYMADEMOULDED DOORSHUTTER**consistingofsoldcoresingleleafflushdoorof30mmthickness,lippedwith15mm(5mmX3)thickX30mmwidthononestilesandtoprailsand10mm(5mmX2)thickX30mmwidthontheotherstilesandbottom rails. The inner panel laminatedwith2mmthicktermiteproof,waterproofandfireresistantmouldedPacsheet with 2,4,6 raised panel design indifferent panel and / or prelamcolourson one side after routing the mouldeddesign on flush door and 2mm prelamPacsheetonothersideusingrubberadhesiveonflushdoorandsolventcementadhesiveonPaclippingetc.complete as per direction of Engineer-in-Charge,manufacturespecificationand drawing	1sqm	**2726**
728	MAT-01360	BMT-N.31	Supplyandfixingof**doorshuttersmadeofrigidPVCextrudedhollowsection**of20mmX200mm withthewallthicknessof1.0mm+/-0.1mmequally divided into 4 no's with tongueand groove locking arrangements. **Theshutterframe**ismadeof30mmX79mmwiththewallthicknessof1.5mm +/-0.15mm section mitre-cut and joinedat4cornerswith125mmX225mmplasticbrackets.Theshuttershallbehorizontallyreinforcedwith2no'sof8mm PVC rods. Teak wood batons shallbereinforcedinsidethedoorshutterduring the fabrication of the door shutteratthosepointswhereverthehardwareisfixedontothedoor shutter.	Sqm.	**1690**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
729	MAT-01381	BMT-N.52	Supply & Fixing **SOLID STEEL DOORdoor shutter** made out of G I PrecoatedSheetwithanaveragewallthickness of 0.35 mm on both sides. MS Tube havingdimensions of 19 x 19 mm is insertedalong the hinge side of the door, core ofthe door shutter filled with High DensityPolyurethanefoaminjectedwiththehelp of hydraulic injection method, foursidesofthedoorcoveredwithGIPrecoatedSheetandthehardwarelocationsreinforcedwithsuitablewoodenblocksasperdrawingandstickersindicatinglocationoftheh ardware pasted at appropriate places,etccomplete	1 Sqm	**1400**
730	MAT-01393	BMT-N.64	Supplyandfixingof**BOARD(conforming toIS 14862) 12 mm thickdoor shutter of size 6'0" x 2'6"** withall-round style "U" lipping size 15 x 14 x 15mmmadefrom0.8mmthickpowdercoatedcoldrolledsteelprofileswithnecessary screws fixed at 1'-0" interval250 mm long aldrops 2 nos. M.S. nickelcoated 250 mm long 1 no. M.S. TowerBolts Including cost and conveyance ofall materials at site and applying 1 coatof primer, 2 coats of luppum and 2 coatsofsyntheticenamelpaintasperapproveddesignforfinisheditemofwork.	1 Sqm	**1160**
731	MAT-01397	BMT-N.68	Providingof**35mmthickFacotrymadePrelaminated ABS (AcrolynitrileButadyne Styrene) Door shuttermoulded**indifferentdesigns,consistingof all round Frame made out of waterproof solid foam PVC bar of size20x32mm, reinforced by 32x 32mm - 2nos. for vertical made out of LVL(Laminated Veneer Lumber), corematerial of 32 mm thick high densitycraft paper honey comb board,sandwiched onbothsideswithprelaminated ABS sheetthickness of1.5mm .PVC edge banding of size0.45mm on the vertical sides.for eachshutter and ISI make S.S round lockcompleteforfinisheditemofwork	1 Sqm	**6200**
		III.SUB-SECTION	**DOORSWITHSHUTTERS &FRAMES**		
732	MAT-01331	BMT-N.02	Providingand fixing **30mm thick Solidpanel PVC door shutter consisting offrame**madeoutofM.S.tubesof19	1 Sqm	**2270**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			gaugethicknessandsizeof19mmx19mmforstiles,&15mmx15mmfortop&bottomrails.M.S.frameshallhave a coat of steel primers of approvedmakeandmanufacture.M.S.frameshall becoveredwith5mm thick heatmoulded PVC 'C' channel of size 30 x50mmformingstiles,and5mmthick,75mm wide PVC sheets for top rail, lockrail&bottomrailoneitherside,and10mm(5mmx2)thick,20mmwidecross PVC sheet asgapinsert for toprail & bottom rail. Panelling of 5mm thickPVC sheet to be fitted in the M.S. framewelded / sealed to the stiles & rails with30mmwidex5mmthickPVCsheetbeadingoneitherside,andjoinedtogether with solvent cement adhesiveetc.Anadditional5mmthickPVCstripof20mmwidthistobestuckontheinteriorsideofthe'C'ChannelusingPVC solvent adhesive. Complete as perdirectionofEngineer-in-charge,manufacturer'sspecification &drawingforfinisheditemofwork.		
733	MAT-01332	BMT-N.03	Providingandfixing**30mmthickBRAND FACTORY MADE BOTHSIDEPRELAMSOLID PANELPVCDOOR SHUTTER consisting of frame** madeout of MS. Tubes of 19gauge thicknessand size of 19mmX19mm for stiles, topandbottomrails.MS.Frameshallhaveacoatofsteelprimersofapprovedmakeandmanufacture.MS.Framecovered with 5mm thick heat mouldedPrelam Pac 'C' channel of size 30mmthickness,70mmwidthoutofwhich50mm shall be flat and 20mm shall betaperedin450angleoneithersideformingstiles;and5mmthick,95mmwidePrelamPac sheetoutofwhich75mm shall be flat and 20mm shall betapered in 450 on the inner side to formtop and bottom rail 115mm widePrelamPac sheet out of which 75mm shall beflat and 20mm shall be tapered on bothsides to form lock rail. Top, bottom andlock rail shall be provided either side ofthepanel.10mm(5mmX2)thick,20mmwidecrossPacsheetshallbeprovidedasgapinsertfortopandbottom rail. Panelling of 5mm thick bothside Prelam Pac sheet to befitted in theMS.Framewelded/sealedtothestiles	1sqm	**2515**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			&railswith7mm(5mm+2mm)thickX15mm wide Pac sheet beading on innerside,andjoinedtogetherwithsolventcement adhesive etc. an additional 5mmthick Pac strip of 20mm width is to bestuckontheinteriorsideofthe'C'channel usingPacsolventcementadhesive etc. complete as per directionofEngineer–in-charge,manufacturespecificationanddrawing.		
734	MAT-01333	BMT-N.04	Providingandfixing**30mmthickBRANDFACTORYMADESOLIDSINGLESIDEPRELAMPANELPVC DOOR SHUTTER consisting of frame**madeoutofMS.Tubesof19gaugethickness and size of 19mmX19mm forstiles,and15mmX15mmfortopandbottom rails. The MS. Frame shall haveacoatofsteelprimersofapprovedmakeandmanufacture.MS.Framecovered with 5mm thick heat mouldedsingle side Prelam Pac 'C' channel ofsize30mmX50mmtoformstiles.5mmthick&75mmwidesinglesideprelimPac sheets shall be for the top, bottomand lock rails. Panelling of 5mm thickone sidePacsheet tobefitted in theMS.Frameandsealedtothefront(prelamside)stilesandrails(whichshould have a 5mm 45 bent portion asbeading)andattachedtotheback(white/ivory) stiles and rails whichshouldhavea10mm900bentportion as beading) using 2nos. 15mm wide X5mmthickPacsheetbeadinginsidethe 90bentbeading.Allstiles,railsandbeadings are to be joined to the panelusing solvent cement etc. an additional5mmthickPacstripof20mmwidthtobe stuck on the interior side of the 'C"channelusingPacsolventcementadhesiveand10mm(5mmX2)thick,20mm wide cross Pac sheet to be fittedas gap insert for top and bottom rail etc.complete as per direction of Engineer –in-Charge,manufacturespecificationand drawing.	1sqm	**2198**
735	MAT-01336	BMT-N.07	MOULDEDPVCDOOR-WOODFREE Providing and fixing 30mm thick BrandfactorymadeMouldeddoorshutter-wood free consisting of frame made outofMS.tubes19gaugethicknessandsize of 25mmX25mm for stiles, top andbottomrails.MS.Frameshall havea	1sqm	**2265**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			coat of steel primers. The inner panelshall consist of 25mm thick High densityEPSconformingtoIS4671-1984bounded with 2mm thick termite proof,water proof and fire resistant mouldedPac sheet with 2,4,6 raised panel designin different plain and / or prelam coloursafter routing to the moulded design onone side and 2mm plain and / or prelamPac sheet on other side of the EPS.Theedgeofpaneltobesealedwithlipping of 10mm wide PVC sheet bottom(made by sticking 2 rigid foam sheet of5mmthicknessusingPacsolventcement) and stiles sides 25mm(5mmX5)thick and 30mm width Pac sheet fittedalongMs.Tubeforlockprovisionforlock height 5mm thick Pac sheet of size150mmX100mmfixedwithupperandlower face of inner side of EPS Paneletc.CompleteasperdirectionofEngineer–in-Charge,manufacturespecificationanddrawing		
736	MAT-01337	BMT-N.08	Providing and fixing 30mm thick BRANDFACTORYMADEWIREMESHSOLID PVCDOORSHUTTERconsistingoffframemade outofM.S.tubesof19gaugethicknessandsizeof19mmX19mm for stiles and 15mmfortop, lock & bottom rails. MS. Frame shallhave a coat of steel primers of approvedmakeandmanufacture.19mmX19mm M.S. square tubes shall be covered with5mmthickheatmouldedPVC‘C’channel of size 30mm thickness, 90mmwidthoutofwhich75mmshallbeflatand 15mm shall be flat and 15mm shallbe bent in 900 on the inner side to fromtopandbottomrailland130mm widePVC sheet out ofwhich100mm shallbe flat and 154mm shall be bent in 900onbothsidetofromlockrail,10mm(5mmX2) thick, 20mm wide crossPVC sheet as gap insert for top rail &bottomrail.PanelwillbeofG.I.wiremesh of 24gauge to be fitted in by ’C’channel of size 35mm X10mm on theeithersideinthestiles.Theinnerside‘C’channelisfixedby19mmX19mmMS.Tubeonbothsides withscrews.Thewiremeshintopbottom&lockrailis sealed with15mm X 15mm tube withG.I.wire 10mm(5mmX2) thick PVCstripof25mmwidthistobestuck&nailson	1sqm	**2000**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			bothsideofG.I.wiremeshinterioratthe top, bottom & lock rail. An additional5mm thick PVC srip of 20mm width is tobe stuck on the interior side ofthe 'C'channelusingPVCsolventcementadhesive etc. complete as per directionofEngineer-in-charge,manufacturer'sspecification& drawings		
737	MAT-01394	BMT-N.65	Providingandfixingframemadefrom 1.2 mm powder coated cold rolled steelprofilesofoverallsectionsizeof60mm x45 mmwith 21mmrivet forshutterwithnecessarystiffenershinges andscrews. BOARD (IS 14862) shutter withall-round style "U" lipping of size 15 x 18x 15 mm made from 0.8 mm thick CRCApowder coated steel profile with 16 mmthickV-boardwithnecessaryscrewsfixed at every 1'-0" interval 250 mm longaldrops 2 nos. M.S. nickel coated 250mmlong1no.M.S.TowerBoltsIncludingcostandconveyance.Onecoat of primer, 2 coats of luppum and 2coats of synthetic enamel paint as perapprovedcolour,labourchargesetc.	1 Sqm	**1750**
738	MAT-01357	BMT-N.28	Providingandfixingofdoorframemadefromcoldrollformedsectionsmade of galvanized (Base steel as perIS277 with zinc of 120 Gms/sqm) colourcoated steel sections with total coatedthicknessof1mm,primercoatedwithepoxy primer coat of 5-7 microns thick,finish paint with polyester paint of 12-16microns. The Section fordoorframeisto be filled with polyurethane (P.U) formof40kg/m3.Overallsizeofframesectionshouldbeof50mmx50mm.Withnecessarycornerbrackets,stiffeners, hinges, and screws. CementBonded particle board shutter"SingleLeaf" with all round styles "U" section ofsize 12m x 18m x 12mm made from 0.6mm thick galvanized, colour coated coldrolledsteelprofileswith16mmthickCementBondedparticleBoardwithnecessary screwsfixedatevery1'-0"(304.8mm) intervals. The cost inclusiveofMSnickelcoatedAldropofsize250mm long 2nos. 200mm long towerbolt1no., 125mm handles2nos., costand conveyance of all materials at siteand applying onecoat primer , one coatofluppumandtwocoatsofsyntheticenamelpaintasperapproveddesign	1 Sqm	**3800**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			forfinisheditem ofwork		
-		-	**DOORS FRAMES (COLOUR COATEDSTEELSECTIONS)&SHUTTERUSING CEMENT BONDED PARTICLEBOARDASPERIS14276:**	-	
739 TO 742		BMT-N.40toBMT-N.43	**ITEMDELETED**		
743	MAT-01373	BMT-N.44	Supplying and fixing **door shutter, withshutterframeandinfillpanelmadefromPVCmaterialc**onformingtoIS:10151-1982, the shutter frame made outof PVC extruded sections having overalldimension of 47 mm x 33 mm with wallthickness of 1.2mm + 0.3mm with usualprocess variation, the shutter frame withtapered shape to provide better grip tothe infill panel end to drain out the waterTheInfillpanelismadeoutofPVCSections having Overall Dimensions of200 mm x 20 mm with wall thickness of1mm + 0.2mm, the shutter frames mitrecutandjoinedatthecorner,byprovidin g Polymeric " L" type corners totake hardware & fixtures fixed with 10-20mmcountersunkfullythreadedparallelshanksteelscrews,allthehardwarelocationsreinforcedwithspecial polymeric bars as per drawings,stickersshowinglocationsofdifferenthardware pasted on the shutter, the infillpanelsjoinedbytongueandgroovemethod.	1 Sqm	**910**
744	MAT-01374	BMT-N.45	Providing&FixingofScientificDoorswithmetaldoorframesanddoorshutters made of galvanize steel (basesteel as per IS 513 of 0.58 mm thick Dquality, galvanized as per IS 277 withZincof120GSM)coatedwithZincPhosphate Primer to receive any paintonsiteorfinishedwithThermosettingPolyurethanepaintofAliphaticGradeprovidinghighlevelsofscratchresistanceanddurability/Epoxypolyesterpowderforpowdercoatingpaint thickness 50-60 microns (Dry filmthickness) outer frame section of 100 x58 mm x 1.2 mm thick,shuttersectionof 0.80mmthickgalvanizedsteelsheetpressed(rollformed)for46mmthickfully flush, double skin door shell seamjoints at stile edges, in-fill of honeycombkraftpaperusedtogivetherequired	1 Sqm	**9348**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			rigidity and effective acoustic insulationwith6”Tower bolt–1No., 6” Dhandles –2Nos.,10”Aldrop–1No.,ButtHinges– 3Nos,MortiseLockofapproved quality – 1 No, frames fixed tothe concrete/masonry wall by means ofselfexpandingscrewscompleteforfinish editemofworkforSingleleafDoor		
745	MAT-01375	BMT-N.46	Providing&FixingofScientificDoorswithm etaldoorframesanddoorshutters made of galvanize steel (basesteel as per IS 513 of 0.58 mm thick Dquality, galvanized as per IS 277 withZincof120GSM).coatedwithZincPho sphate Primer to receive any paintonsiteorfinishedwithThermosetting PolyurethanepaintofAliphaticGradeprovi dinghighlevelsofscratchresistanceanddu rability/Epoxypolyesterpowderforpowder coatingpaint thickness 50-60 microns (Dry filmthickness) outer frame section of 100 x58 mm x 1.2 mmthick,shuttersectionof 0.80mmthickgalvanizedsteelsheetpresse d(rollformed)for46mmthickfully flush, double skin door shell seamjoints at stile edges, in-fill of honeycombkraftpaperusedtogivetherequ iredrigidity and effective acoustic insulationwith6”Towerbolt– 2Nos.,6”Dhandles – 2 Nos.,10” Aldrop – 1 No.,Butt Hinges – 6 Nos,Mortise Lock ofapproved quality – 1 No, frames fixed tothe concrete/masonry wall by means ofselfexpandingscrewscompleteforfinish editemofworkforDoubleleafDoor	1 Sqm	**9971**
746	MAT-01380	BMT-N.51	Providing & fixing **30 mm thick solidpanel PVC door shutter consisting offrame**madeoutof19guageM.Stubeof 19 x 19 mm for stiles, top & bottomrail, with a coat ofprimer of approvedmake.M.S. Frame coveredwith 5 mmthick heat moulded PVC “C” channel ofsize of 30 x 50 mmforming stiles, 5mmthick75mmwidePVCsheetfortop, lock & bottom rail on either side20mm wide cross PVC sheet as gap insertfortop&bottomrail,panellingof10mm (+/-)(5mm+5mm)”thickPVCsheetfitted in the M.S. frame welded /sealedtothestiles,oneithersidejoinedtog etherwithsolventcementadhesiveetc.,ad ditional5mmthick	1 Sqm	**2750**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			PVC strip of 20 mm width stuck on theinteriorsideoftheCchannelusingsolvent cement,completeasperdirectionofEngineer–in–charge,manufacturersspecification.		
747	MAT-01382	BMT-N.53	Supplying & fixing **SINGLE PANEL 30mm thick PVC DOOR, door shutterswithshutterframe**andInfillpanel madefromPVCmaterial,theshutterframe madeoutofPVCextrudedsections having overall dimensions of 60mm x 30 mm with wall thickness of 1.3mm ± 0.3 mm, with the Infill panel madeout of multi chambered seamless hollowPVCextrudedpanelhavingoveralldimensions of 610 mm x 20 mm havingwall thickness 1 mm ± 0.2 mm with theshutterframemetercut andjoinedatcorners and all the hardware locationsreinforcedwithspecialpolymeric barsasperdrawingincludingprovidingspecial PVC braket on hinge side, etccomplete	1 Sqm	**2350**
748	MAT-01384	BMT-N.55	Supply & Fixing of **Powder Coated MildSteel doors, frames & shutters** madeofSkinpassgalvanizedIronsheetconforming to Base Steel as per IS 513"D" Quality, Galvanized as per IS 277with Hot Zinc Coating of120 grams /Sq.Mtr with powder coatingof thickness60-65 Microns, frame with 1.2mm thickSkin pass Galvanized Iron sheet formedto single rebate profile of ize 100 mm X58 mm and filled with in-fill Polyurethanefoam, the Door Shutters are with 0.80mmthickSkinpassGalvanizedIronSheet formed to provide a 46 mm thickfully flush, double skin door shell withLock Seam joints at stile edges, fittedwithin-fillofHoneycombKraftPaperand coated with polyesterpowders ofPurepolyester/epoxypolyesterorpolyurethane powder for powder coatingof thickness 60 – 65 microns and arecoated with ZincPhosphate Primertoreceive any paint on site or finished withThermosettingPolyurethanepaintofAliphatic Grade providing high levels ofscratchresistanceanddurability,theShutter provided with 6 MM clear floatvisionglassinCircular,SquareorRectangularshapes,StainlessSteelBallBearing ButtHinges3mmthickfixedflushtotheframeandshutter	1 Sqm	**10800**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			(Profile102x76x3mmthick).MortiseSash Lock with Lever Handles, MortiseDead Bolt, etc for industrial, commercial,residential,cleanroom applications		
749	MAT-01385	BMT-N.56	Supply&Fixingof**Stainlesssteeldoors,frames&shutters**madeofstainlesssteelgrade304ofhairlinefinish, frame with 1.2mm thick formed tosingle rebate profile of ize 100 mm X 58mmandfilledwithin-fillPolyurethanefoam, the Door Shutters are with 0.80mmthickStainlesssteelSheetformedtoprovidea46mmthickfullyflush,double skin door shell with Lock Seamjoints at stile edges, fitted with in-fill ofHoneycombKraftPaper,theShutterprovidedwith6MMclearfloatvisionglass in Circular, Square or Rectangularshapes,StainlessSteelBallBearingButt Hinges 3 mm thick fixed flush to theframe and shutter (Profile 102x76x3mmthick).MortiseSashLockwithLeverHandles,MortiseDeadBolt,etcforindustrial,commercial,residential,cleanroom applications.	1 Sqm	**20240**
750	MAT-01386	BMT-N.57	Supply & Fixing of **Powder Coated FireRated doors, frames & shutters** madeofSkinpassgalvanizedIronsheetconforming to Base Steel as per IS 513“D” Quality, Galvanized as per IS 277with Hot Zinc Coating of120 grams /Sq.Mtr with powder coatingof thickness60-65 Microns, frame with 1.2mm thickSkin pass Galvanized Iron sheet formedto double rebate profile of ize 143 mm X58mmwithmaximumbendingradiusof 1.4mmandfilledwithin-fillPolyurethanefoam,theDoorShuttersarewith0.80mmthickSkinpassGalvanized Iron Sheet formed to providea 46 mm thick fully flush, double skindoor shell with Lock Seam joints at stileedges,fittedwithin-fillofHoneycombKraft Paper and coated with polyesterpowdersofPurepolyester/epoxy polyesterorpolyurethanepowderforpowder coatingof thickness 60 – 65micronsandarecoatedwithZincPhosphate Primer to receive any paintonsiteorfinishedwithThermosettingPolyurethanepaintofAliphaticGradeprovidinghighlevelsofscratchresistanceanddurability,theShutterprovidedwith6MMclearfloatvision	1 Sqm	**12820**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			glass in Circular, Square or RectangularshapesStainlessSteelBallBearingButt Hinges 3 mm thick fixed flush to theframe and shutter (Profile 102x76x3mmthick).MortiseSashLockwithLeverHandles, Mortise Dead Bolt, etc for 120minutes Fire Rated door conforming toIS:3614(Part2)1992		
751	MAT-01387	BMT-N.58	Supply & Fixing of **Powder Coated FireRated doors, frames & shutters** madeofSkinpassgalvanizedIronsheetconforming to Base Steel as per IS 513"D" Quality, Galvanized as per IS 277with Hot Zinc Coating of120 grams /Sq.Mtr with powder coatingof thickness60-65 Microns, frame with 1.2mm thickSkin pass Galvanized Iron sheet formedto double rebate profile of ize 143 mm X58mmwithmaximumbendingradiusof 1.4mmandfilledwithin-fillPolyurethanefoam,theDoorShuttersarewith0.80mmthickSkinpassGalvanized Iron Sheet formed to providea 46 mm thick fully flush, double skindoor shell with Lock Seam joints at stileedges,fittedwithin-fillofHoneycombKraft Paper and coated with polyesterpowdersofPurepolyester/epoxy polyesterorpolyurethanepowderforpowder coatingof thickness 60 – 65micronsandarecoatedwithZincPhosphate Primer to receive any paintonsiteorfinishedwithThermosettingPolyurethanepaintofAliphaticGradeprovidinghighlevelsofscratchresistanceanddurability,theShutterprovidedwith6MMclearfloatvisionglass in Circular, Square or RectangularshapesStainlessSteelBallBearingButt Hinges 3 mm thick fixed flush to theframe and shutter (Profile 102x76x3mmthick).MortiseSashLockwithLeverHandles, Mortise Dead Bolt, etc for 60minutes Fire Rated door conforming toIS:3614(Part2)1992	1 Sqm	**12150**
752	MAT-01388	BMT-N.59	Supply & Fixing of **Stainless steel FireRated doors, frames & shutters** madeofStainless steel of 304 grade hairlinefinish, frame with 1.2mm thick Stainlesssteel of 304 grade hairline finish sheetformedtodoublerebateprofileofize 143mmX58mmwithmaximumbending radius of 1.4 mm and filled within-fill Polyurethane foam, the Door	1 Sqm	**19280**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			Shuttersarewith0.80mmthickStainlesssteelof304gradehairlinefinish Sheet formed to provide a 46 mmthick fully flush, double skin door shellwithLockSeamjointsatstileedges,fittedwithin-fillofHoneycombKraftPaperandcoatedwithpolyesterpowdersofPurepolyester/epoxypolyesterorpolyurethanepowderforpowder coatingof thickness 60 – 65micronsandarecoatedwithZincPhosphate Primer to receive any paintonsiteorfinishedwithThermosettingPolyurethanepaintofAliphaticGradeprovidinghighlevelsofscratchresistanceanddurability,theShutterprovidedwith6MMclearfloatvisionglass in Circular, Square or Rectangularshapes,StainlessSteelBallBearingButt Hinges 3 mm thick fixed flush to theframe and shutter (Profile 102x76x3mmthick).MortiseSashLockwithLeverHandles, Mortise Dead Bolt, etc for 120minutes Fire Rated door conforming tolS:3614(Part2)1992		
753	MAT-01389	BMT-N.60	Supply & Fixing of **Stainless steel FireRated doors, frames & shutters** madeofStainless steel of 304 grade hairlinefinish, frame with 1.2mm thick Stainlesssteel of 304 grade hairline finish sheetformedtodoublerebateprofileofize 143mmX58mmwithmaximumbending radius of 1.4 mm and filled within-fillPolyurethanefoam,theDoorShuttersarewith0.80mmthickStainlesssteelof304gradehairlinefinish Sheet formed to provide a 46 mmthick fully flush, double skin door shellwithLockSeamjointsatstileedges,fittedwithin-fillofHoneycombKraftPaperandcoatedwithpolyesterpowdersofPurepolyester/epoxypolyesterorpolyurethanepowderforpowder coatingof thickness 60 – 65micronsandarecoatedwithZincPhosphate Primer to receive any paintonsiteorfinishedwithThermosettingPolyurethanepaintofAliphaticGradeprovidinghighlevelsofscratchresistanceanddurability,theShutterprovidedwith6MMclearfloatvisionglass in Circular, Square or Rectangularshapes,StainlessSteelBallBearingButtHinges3mmthickfixedflushtothe	1 Sqm	**17650**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			frame and shutter (Profile 102x76x3mmthick).MortiseSashLockwithLeverHandles, Mortise Dead Bolt, etc for 60minutes Fire Rated door conforming toIS:3614(Part2)1992		
754	MAT-01390	BMT-N.61	Supply & Fixing of **Lead Lined Cleanroomdoorsframesandshutters**madeofSkinpassgalvanizedIronsheet(ConformtoBaseSteelasperIS 513 “D” Quality, Galvanized as per IS277withHotZincCoatingof120grams /Sq.Mtr).withpowdercoatingofthickness60-65Microns,frameof1.60mmthickgalvanizedsteelsheet(ConformtoIS277)formedto Single/doublerebateprofileofsize100mm X58mm/143x58mm,doorframeswithasingle/multiLayerofLeadsheetvaryingthicknessfrom3mm /1mmto2mmdependsonradiationlevel,theshutterwith1.2mmthickGalvanized Steel Sheet (Conform to IS277)formedtoprovidea46mmthickfully flush, double skin door shell withLock Seam joints at stile edges with asingle/multiLayerofLeadsheetvaryingthicknessfrom3mm/1mmto2mmdependsonradiationlevel, theleadsheetsextendthefullwidthandheightofthedoor,Leadthicknessisequaltotheshieldingintheadjacentwall, the door frames and door shuttersare coated with polyesterpowders ofPurepolyester/epoxypolyesterorpolyurethane powder for powder coatingofthickness60–65microns,coatedwith Zinc Phosphate Primer to receiveanypaintonsiteorfinishedwithThermosettingPolyurethanepaintofAliphatic Grade providing high levels ofscratchresistanceanddurability,hardwarewithStainlessSteelBallBearingButt Hinges 3mm thick fixedflushtotheframeandshutteretccompleteforfinisheditem	1 Sqm	**14530**
755	MAT-01391	BMT-N.62	Supply&Fixingof**LeadLinedStainlesssteelCleanroomdoorframesandshutters** madeofStainlesssteelgradeof304hairline finish,framewith1.60mm(16SWG)thick hairline finish Stainless steel gradeof 304 formed to Single/double rebateprofileofsize100mmx58mm/143x58mm,doorframeswithasingle/multi	1 Sqm	**22940**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			Layer of Lead sheet varying thicknessfrom 3mm/1mmto2mmdependsonradiation level, the shutter with 1.2 mmthick hairline finish Stainless steel gradeof 304 formed to provide a 46mm thickfully flush, double skin door shell withLock Seam joints at stile edges with asingle/multiLayerofLeadsheetvaryingthicknessfrom3mm/1mmto2mm dependsonradiation level. Theleadsheetsextendthefullwidthandheight of the door. Lead thickness is tobe equal to the shielding in the adjacentwall.Hardwarecanbeprovidedwith Stainless Steel Ball Bearing Butt Hinges3 mm thick fixed flush to the frame andshutter etc complete for fisnihed item ofwork		
756	MAT-01395	BMT-N.66	**ITEMDELETED**		
757	MAT-01396	BMT-N.67	A) Specification for Foamed PVC DoorFrame & ABS Shutters:Providing ofFactory made prelaminated FPVC(Foamed Polyvinyl Chloride) Door frameof the size 105x40mm with a wallthicknessof10mmmadeoutofextruded rigid FPVC profile mitre joinedwith 6 Nos. of 50mm long screw.Thedoor frame shall be fixed to the wall byusing 80mm long screws through theframewiththehelpofPVCfastenersof3 no'sto be provided for each verticalmember,GI stiffners of ("U" chanel ofsize29x9x1mm,150mmlong)-3no'sathinge point,Frame reinforcement of("U"GI chanel of size 46x22x.06mm),Bottomtie rod of ("U" GI chanel size of15x15x1mm) etc. complete as permanufacturers specification for finisheditem of work.**Maximum door framesize:980x 2070**. B) Providing of 35mm thick Facotry madePrelaminated ABS (AcrolynitrileButadyneStyrene)Doorshuttermoulded in different designs, consistingof all round Frame made out of waterproof solid foam PVC bar of size20x32mm, reinforced by 32x 32mm - 2nos. for vertical made out of LVL(Laminated Veneer Lumber), corematerialof32mmthickhighdensitycraft paper honey comb board,sandwiched onbothsideswithprelaminated ABS sheetthickness of1.5mm.PVCedge bandingofsize	Each	**14189**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			0.45mmontheverticalsides.Hardwarema de out of steel coated butterflyhinges - 3 Nos. for each shutter and ISImake S.S round lock completes forfinished item of work. Maximum shuttersizeof:910x2030mm		
758	MAT-01398	BMT-N.69	Supply and fixing of Bath room / Toiletdoor shutter with 16mm **laminated** (IS14276)doorshutterwithall-round'U'lipping of PPS section of size 12mm X18mmX 12mmX0.6mm thickness with ahardwareof12mmdiaX200mmlongalumi num aldrop – 2 nos(ISI make)2 Noof 125mm long handles(ISI make) andalso 3 noOf IS304 grade Patee Hinges3mmX12mmX180mmlongwithpol ereceiver of 10mm dia pole X40mm longwelded on 2mm X40mm(ss304) platesworks as receiver for RT patte hinges.Thepriceinclusive ofall material atsite	1 Sqm	**2265**
759	MAT-01399	BMT-N.70	Supply and fixing of toilet door shutterwith frame made of M.S. door frame of5mmX48mmX48mm(Langel)asall-roundframetheframeiscoatedwithone coat of red oxide and two coats ofenamel of approved color. For shutterandtheshutterismadewith16mmla minatedshutterwithall-round'U'LippingofPPSsectionof12mmX1 8mmX12mmX0.60mm,alonghardware of 200m long and 12mm diaaluminum aldrop(ISI make)2 Nos, 2Nosof125m m handle, 3 Nos of RT pattehinges IS 304gr SS2mmX12mmX180mm longwitha polereceiverof10mmDiaX40mmbywelde d on 3mmX40mm SS 304, plate itworksasreceiverforRTPateehingesit is welded to M.S. angle . M.S. anglewill be fixed to wall of self expandablescrewsandcaps.	1 Sqm	**3530**
760	MAT-01402	BMT-N.73	Door shutter with shutter frame and InfillpanelmadefromPVCmaterialconform ingtoIS:10151:1982.Theshutterframeism adeoutofPVCextrudedsectionshavingov eralldimensions of 100mm X 30mm, with twoself extruded grooves at 40mm & 50mmon front surface. The Infill panel is madeout of multi chambered seamless hollowPVCextrudedpanelhavingoveralldi mensions of 610 mm X 20 mm. Theshutterframeshallbemetercutand	Sqm.	**960**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			joinedatcornersbymeansofplasticbrackets. Stickers showing locations ofdifferent hardware will be pasted on theshutter.ALLDimensionsarein MM.		
761	MAT-01403	BMT-N.74	TheshutterframemadeoutofPVCextruded esectionhavingoveralldimensions of 59mm x 24mm with wallthickness of 1.0mm +/-0.3mm with usualprocess variation corresponding to theSintexCodeNo.DWUF-302.Theshutter frameis given tampered shapeto provide better grip to the infill panelandtodrainoutthewater.TheinfillpanelismadeoutofseamlessonepiecemultichamberedPVCextrudedsectionhavingoveralldimensionof610mm x 20mm with wall thickness of1mm+/-0.2mmwithusualprocessvariationcorrespondingtotheSintexcode No.SPUF-128. The shutter frameshallbemitrecutandjoinedatthecorner polymeric “L’ Type corners shallbe provided at the corners to take uphardwares & fixtures and shall be fixedwith19x8mmcountersunk-fullythreadedparallelshanksteelscrews.Allthehardwarelocationsshallbereinforced withspecialpolymericBars.	1 Sqm	**1924**
762 to 765		BMT-N.75toBMT-N.78	**ITEMsDELETED**		
766	MAT-01338	BMT-N.09	Providing and fixingPVC door claddingtothe flush doors shutters. For the newdoorsitshallbepastedwithFevicolSSR998ornailedtotheolddoors.complete as per direction of Engineer –in – charge, manufacturers specificationand drawing-1mm thick	1sqm	**350**
767	MAT-01339	BMT-N.10	Providing and fixingPVC door claddingtothe flush doors shutters . For the newdoorsitshallbepastedwithFevicolSSR998ornailedtotheolddoors.complete as per direction of Engineer –in – charge, manufacturers specificationand drawing-1.5mmthick	1sqm	**375**
768	MAT-01340	BMT-N.11	Providing and fixingPVC door claddingtothe flush doors shutters . For the newdoorsitshallbepastedwithFevicolSSR998ornailedtotheolddoors.complete as per direction of Engineer –in – charge, manufacturers specificationand drawing-2.0 mmthick	1sqm	**431**
769		BMT-N.84	Providingandfixingfactory madeuPVC		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			white colour casement/Casementcumfixed glazed door comprising of uPVCmulti-chambered frame, sashandmullion (where ever required) extrudedprofiles duly reinforced with 1.60 ± 0.2mm thick galvanized mild steel sectionmade from roll formingprocess ofrequiredlength(shape&sizeaccordingto Upvc profile),uPVC extruded glazingbeadsofappropriatedimension,EPDMgasket,zinc alloy(white powder coated) 3D hinges andone handleoneachside of panels along with zinc plated mildsteel multi pointlockinghavingtransmissiongear,cylinderwith keeps and one side key,G.Ifasteners100 x 8 mm size for fixingframe to finished wall andnecessarystainlesssteelscrews,etc. Profileofframe&sashshallbemitredcutandfusion welded at all corners, mullion (ifrequired) shall be alsofusionweldedincludingdrillingofholesfor fixing hardware's and drainageofwater etc.After fixing frame the gapbetween frame and adjacent finishedwallshall be filled with weather proof siliconsealent over backer rod of requiredsizeand of approved quality, allcompleteasperapproveddrawing& directionof Engineer-in-Chargeinclusiveof cost ofSingle / doubleglasspanesandsiliconsealent . **Note: For uPVC frame, sash andmullion extruded profiles minus5%tolerance in dimension i.e. indepth & width of profile shall beacceptable.Variation in profiledimension in higher side shall beacceptedbutnoextrapaymentonthisaccount shallbemade.**		
770	MAT-05437	BMT-N.84.A	Casement door with 3D hinges made of(big series) frame 67x 64 mm & sash 67x110mmbothhavingwallthicknessof 2.3 ± 0.2 mm and single glazing bead /doubleglazingbeadofappropriatedimension.(Areaofdoorupto2.00sqm).	1sqm	8217
771	MAT-05438	BMT-N.84.B	Casement door with top hung ventilatorwith3DandS.S.frictionhinges(400x19x1.9mm)madeof(bigseries)frame	1sqm	8395

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			67x64mm,sash67x110mm&mullion67x80mmallhavingwallthickness of 2.3 ±. 0.2 mm and singleglazing bead / double glazing bead ofappropriatedimension.(Areaof doorupto 2.50sqm)		
772		BMT-N.85	Providing and fixing factory made uPVCwhite colour sliding glazeddoorcomprisingof uPVCmulti-chamberedframewithin-builtrollertrack andsash extruded profiles dulyreinforced with 1.60 ± 0.2 mm thickgalvanizedmild steel section made fromroll forming process of required length(shape & size according to uPVCprofile), appropriate dimensionuPVCextruded glazing beads, uPVCextruded interlock and uPVCextrudedInlinesashadaptor(ifrequired), EPDM gasket, wool pile, zincalloy(white powder coated) handle withkeyononesideofextremepanelsalong with zinc plated mild steel multipoint locking having transmissiongearwith keeps, zinc alloy (white powdercoated) cresent lock (ifrequired),stainlesssteel(SS304grade) bodywithadjustable doublenylon rollers (weightbearing capacity to be 120 kg), G.Ifasteners 100x 8 mm size for fixing frame to finishedwall and necessary stainlesssteelscrewsetc.Profileoffframe &sashshall be mitred cut and fusion weldedatallcorners,includingdrillingofholesforfixing hardware's and drainageof wateretc. After fixing frame the gap betweenframe andadjacent finished wall shall be filled with weatherproof silicon sealent over backerrod ofrequiredsizeandofapprovedquality,allcomplete as per approveddrawing &directionof Engineer-in-Chargeinclusiveof cost ofSingle / doubleglass panes,wire mesh and siliconsealent. **Note: For uPVC frame and sashextruded profiles minus 5%toleranceindimensioni.e.indepth &width of profile shall be acceptable.Variationin profile dimension inhigher side shall be accepted but noextra paymentonthisaccount shallbe**		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			made.		
773	MAT-05439	BMT-N.85.A	Two track two panels sliding door madeof (big series) frame 67 x 50 mm & sash46x 82mmbothhavingwallthicknessof 2.3 ± 0.2 mm and single glazing bead /doubleglazingbeadofappropriatedimension.(Areaofdoorabove2.00sqmupto5.00sqm)	1sqm	5404
774	MAT-05440	BMT-N.85.B	Threetrackthreepanelsslidingdoorwith fly proof S.S wiremesh (Two nos. glazed & one no. wiremesh panels) made of(big series) frame116 x 45 mm & sash 46 x 82 mm bothhaving wall thickness of 2.3 ± 0.2 mmand single glazingbead/doubleglazingbeadofappropriate dimension. (Areaofdoor above2.00sqmupto5.00sqm)	1sqm	6996
775	MAT-05441	BMT-N.86	Providing and fixing of factory made ofHighDensityHighMoistureResistantWoodFibre(HDHMR)singleshutterDuradoor madeupofFRAME:Doorframe manufactured with High DensityHighMoistureResistantWoodFibre(HDHMR)of36mmwidthx100mmdepth , laminated with 0.2mm thick PVCFoil using hot press andPUR adhesive,fitted with Gasket for energy efficiencyand noise protection,affixed to the wallusinghighstrengthexpandablePUFoam/self-expandablewallfixingscrews.Max dimensions in MM of 280(depth)x2440(height)SHUTTER:Factorymade41mmthickshuttersandwichedwithHighDensityHighMoistureResistantWoodFibre(HDHMR) of 5.5mm thick skinson bothsidesandHDHMRof30mmthickness as skeleton,core of high density HoneyCombandLaminatedVeneerLumber(LVL)forholdingthelockbodyandhardware,laminatedwith0.2mmthickPVCFoilanded ge-bandedwith1mmthickPVCedge-bandusinghotpressandPURadhesives.MaxdimensionsinMMof1200(width)x41(thickness)x2400(height),**ARCHITRAVE**:FactorymadeArchitrave of size 80mm x12mm fittedtopre-madegrooveswithintheframeforaddedaesthetics.Fourdesignvariantsavailable,madewithDensityHighMoistureResistantWood	1sqm	11249

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			Fibre(HDHMR) of differentthicknessesdependingonthedesignvariant,laminatedwith0.2mmthickPVC FoilusinghotpressandPURadhesive,fittedtothewallusingstrongquickactingadhesives. **HARDWARE &ACCESSORIES**: Importedhardwareincludingdoorhandles – 1no,cylindricalmagneticlock -1 no ,SS hinges – 3 nos. Including costandconveyanceofallmaterial,Hardware,Labourchargesandtransportationcompleteforfinisheditem ofwork		
776	MAT-05442	BMT-N.87	SupplyandfixingofBath/Toilet**Doorframe and shutter** with8mm laminated(IS.15786)using with 50mmx35mmx1.3mmthickaluminumdoorframeofweight220grmperRftwith a rebate of 30 mm for provision forshutter,shuttermadewith45mmx25mmx1.3mmthickaluminumsection of weight 210grms per Rft with8mmgroovetoaccommodate8mmthicklaminated (IS.15786)and shutterhaving 3nos of ss 304gr Butt hinges of100mmlong,100mmaluminumhandles -2nos, and also 2 nos of 200mmx12mmaluminum aldrops ,the rates inclusive ofalllaborfixingatsiteand50micronsIvory powder coated for aluminum doorframe and shutter sections etc completefinished itemofwork.	1sqm	**4872**
777	MAT-05443	BMT-N.88	Providing and fixing28 -30 MM thicksolidWoodPolymerComposite(WPC)single extruded door shutter with 3MMtop and bottom rigid layer with an overalldensity of 750kg/Cum. It will be fixed tothe frame using 3 inch /4 inch hinges. Aminimum of 4 hinges will be required forfixingthe doorwiththeframe	1sqm	**3030**
		IV.SUB-SECTION	**CUP-BOARDDOORS**		
778	MAT-01353	BMT-N.24	SupplyandfixingofCementBondedParticleBoard(IS14276)**cupboard**frames and shuttersand using 16mmCementBondedParticleBoardduly paintedbothsideswithonecoatofprimerandtwocoatsofsynthetic/enamelpaintofapprovedshadeandbrandincludingfixingofhardwarelike M.S.powdercoatedPianohingesofsize18 mmx18mm,brassballcatches,	1sqm	**2210**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			Aluminumtowerboltsandhandles,Godrej locks, Fevicol, screws and nailsincludingcostandconveyanceofallmaterials,laborcharges,allincidentaland operational charges etc., completeforfinisheditemofworkatsiteasperthedirectionsof EngineerinCharge.		
779	MAT-01358	BMT-N.29	SupplyandfixingofCementBondedParticle Board (IS 14276) box type cupboardusingCementBondedParticleBoardfor making frame of size 100mmx 35mmusing twosandwiched16MMboards,oneCementBondedParticleBoardandoneCEMENTBONDEDPRE-LAMINATEDPARTICLEBOARDS withplain35mmwoodlipping.TheShutters aremadeof16MMthickCEMENTBONDEDPRE-LAMINATED PARTICLEBOARDS(Pre-LaminatedCementBondedParticleBoard) ofapprovedshadeinclusiveofhardwarelike M.S. powder coated Piano hinges ofsize ¾" x ¾" , Aluminum powder coatedhandles of size 4" (101.6mm), Aluminumtower bolt 4" (101.6mm) Godrej locks,screws, wood lipping and Fevicol etc.,completefinishitemofwork.	1 Sqm	**3540**
780	MAT-01400	BMT-N.71	Supplyandfixingofcupboardshutterusing teakwood scantling of size 50mmX50mm teakwood as outer frame and50mm X 30 mm of sizeteakwood forshutterframes,8mmthickBisonLamas panelto each shutter consist of 2Nos 75mm long tower bolt – 2 nos 75mm big handle the and other shutter willhave 1 no ofcupboard lack , 1 No of 75mm long handle and 75mm10mmX1mmthick SS hinges- 2 Nos for each shutter.The above frame will be fixed to the wallwithscrews,therateinclusiveofscrews , handle, etc., complete at site ofwork.	1 Sqm	**3710**
		P.SECTION	**WINDOWS (Landingcost– includingloading,costof conveyance,unloading)**		
		I.SUB-SECTION	**OPENABLEWINDOWS**		
			Supply and fixing of pre-painted steelopenable windowsbase steel as perIS513of-0.58mmthick'D"quality,galvanized as per IS 277 , finish paintedwithapolyesterpaintof12-16microns		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			thick and back coated with 5-7 micronsthickalkydbacker,sectionforouter frame of 46 x 52 mm section and forshutterof46x46mmsectionformullion4 6x70mm,andsectionforbeading should be 18 x 25 mmwith 5mmthickplainfloatglassfittedwithEthylpr opyleneDiaminemonomerGasket (EPDM) andhandlemadeofhighgradealuminiump owdercoatedwithframesfixedtotheconcre te /masonrywallbymeansofselfexpandingsc rewsincluding10mmsquareguardbarswit h6"pitchcompleteforfinisheditemofwork .		
781	MAT-01409	BMT-P.01	Windows:Singleshutter2'0x4'0(609.6x12 19.2mm)Outerframesectionsizeof46x52 mmshutterframesectionsizeof46x 46mm	1sqm	**5742**
782	MAT-01410	BMT-P.02	Windows: Double shutter3'-0" x 4'-0"(914.4mmx1219.2mm)outerframesecti onsizeof46x52mmshutterframesectionsi zeof46x 46mm	1 Sqm	**5742**
783	MAT-01411	BMT-P.03	Windows:Doubleshutter3'-0"x4'-0"(914.4mmx1219.2mm)outerframesecti onsizeof46x52mmshutterframesectionsi zeof46x46mmMullionsectionsizeof46x70 mm	1 Sqm	**6074**
784	MAT-01412	BMT-P.04	Windows: Double shutter 4'-0" x 4 '-0"(1219.2x12.19.2mm)outerframesectio nsizeof46x52mmshutterframesectionsiz eof46x46mm	1 Sqm	**5907**
785	MAT-01413	BMT-P.05	Windows: Double shutter 4'-0" x 4 '-0"(1219.2x1219.2mm)outerframesection sizeof46x52mmshutterframesectionsize of46x46mmMullionsectionsizeof46x70m m	1 Sqm	**5907**
786	MAT-01414	BMT-P.06	Windows: Double shutter 4'-6" x 4 '-6"(1371.6x1371.6mm) outer frame sectionsizeof46x52mmshutterframesecti onsizeof46x46mmMullionsectionsizeof4 6x 70mm	1 Sqm	**5411**
787	MAT-01415	BMT-P.07	Windows:Centrefixedbothsideopenables hutter5'-0"x4'-0"(1524x1219.2mm)outerframesectionsi zeof46x52mmshutterframesectionsizeof 46x46mmMullionsectionsizeof46x70mmf ixedbeadingsectionsizeof18 x 25mm	1 Sqm	**5411**
788	MAT-01416	BMT-P.08	Windows: Centre fixed both sideopenable shutter 6'-0" x 4'-0"	1 Sqm	**5411**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			(1828.8x1219.2mm) outer frame sectionsizeof46x52mmshutterframesectionsizeof46x46mmMullionsectionsizeof46x70mmfixedbeadingsectionsizeof18 x25mm		
789	MAT-01417	BMT-P.09	Windows:Centrefixedbothsideopenableshutter6'-0"x4'-6"(1828.8x1371.6mm) outer frame sectionsizeof46x52mmshutterframesectionsizeof46x46mmMullionsectionsizeof46x70mmfixedbeadingsectionsizeof18 x 25mm	1 Sqm	**5411**
			Providingandfixingof**OpenableWindows** madeofpre-paintedsteel(Base steel as per IS 513 of 0.58 mmthick galvanized as per IS 277 with Zincof 120 GSM), primer coated with epoxyprimerof5-7micronsthick,finishpainted with a polyester paint of 12-16microns thick and back coated with 5-7microns thick alkyd backer and sectionfor outer frame of 48 x 50 mm, centremullionof48x50mm,sectionforshutterof48x25mmandthefixedglass beading section should be 12 x 12mm and the outer frame and mullions tohave rebate for glazed shutter with a 20mm provision for guard bars/grills andthe sections cut to length metre joinedwith corner bracket, centre mullion fixedwith mullion cap, handle, stay, 2 nos. ofstainless steel heavy duty pivot hingesprovided per shutter and windows fittedwith5mmthick plainfloat glass withrubbergasketsincludingfixingtheframesinconcrete/masonrywallbymeansofself expandingscrews,Including 10mm Square guard bars with6”(152.4mm)pitchetc.,completeforfinished itemofwork.		
790	MAT-01424	BMT-P.16	SingleshutterWindow2’0”x4’0”(609.6mm x 1219.2mm).Outer framesection size of 48x50mm shutter framesectionsizeof48x25mm.	1 Sqm	**5245**
791	MAT-01425	BMT-P.17	DoubleshutterWindowwithverticalmullion 3’0”x4’0”(914.4mmx1219.2mm) outer frame section size of48x50mmshutterframesectionsizeof 48 x25 mm.Mullion section size of48x50mm.	1 Sqm	**5576**
792	MAT-01426	BMT-P.18	DoubleshutterWindowwithverticalmember4’0” x 4’0” (1219.2mm x	1 Sqm	**5576**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			1219.2mm) outer frame section size of48x50mm shutter frame section size of48 x 25 mm and mullion section shouldbeof48x50mm.		
793	MAT-01427	BMT-P.19	Centre fixed both side openable shutterwindow 5'0"x4'0" (1524mmx1219.2mm).Outer frame section sizeof 48x50mm.Shutter frame section sizeof 48 x 25 mm.Mullion section size of48x50mm. Fixed beading section sizeof12x12mm.	1 Sqm	**4914**
794	MAT-01428	BMT-P.20	Centre fixed both side openable shutterwindow6'0"x4'0"(1828.8mmx1219.2mm).Outer frame section sizeof 48x50mm.Shutter frame section sizeof 48 x 25 mm.Mullion section size of48x50mm. Fixed beading section sizeof12x 12mm.	1 Sqm	**4914**
			Providing&Fixingof**OpenableWindows with Fly-mesh** made of pre-painted steel (Base Steel as per IS 513of0.58mmthickgalvanizedasperIS 277withzincof150GSM)primercoated with epoxy primer of 5-7 micronsthick,finishpaintedwithapolyester paint of 12-16 microns thick and backcoatedwith5-7micronsthickalkydbacker and the section forouter frameof 72 x 55mm, centre mullion of 72 x50mm, section for fixed glass beadingsection of 12 x 12 mm and section forshutters of 48 x 25 mm and outer frame& mullion sections with rebate for glazedshutters,flymeshanda20mmprovisionforguardbars/grillsandflymesh shutter section of 20 x 40 mm andthe sections cut to length metre joinedwithcornerbracket,centremullionsfixedwithmullioncap,stay,handles,latch 2 Nos of heavy duty stainless steelpivothingespershutterandpanelledwith 5mm thick plain float glass and S.S.Mesh for fly mesh shutter (304 grade),fittedusingrubbergasketsincludingfixingthewindowsintheconcrete/masonry wall by means of selfexpandingscrews,including10mmSquare guard bars with 6" (152.4mm)pitch,completeforfinisheditem ofwork		
795	MAT-01429	BMT-P.21	SingleshutterWindow2'0"x4'0"(609.6mm x 1219.2mm).Outer framesection size of 72x50mm shutter framesectionsizeof48x25mm.	1 Sqm	**6956**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
796	MAT-01430	BMT-P.22	DoubleshutterWindowwithverticalmullion 3'0"x4'0"(914.4mmx1219.2mm) outer frame section size of72x50mmshutterframesectionsizeof 48 x25 mm.Mullionsection size of72x50mm.	1 Sqm	**7288**
797	MAT-01431	BMT-P.23	DoubleshutterWindowwithverticalmemb er4'0"x4'0"(1219.2mmx1219.2mm) outer frame section size of72x50mm shutter frame section size of48 x 25 mm and mullion section shouldbeof72x50mm.	1 Sqm	**7288**
798	MAT-01432	BMT-P.24	Centre fixed both side openable shutterwindow 5'0"x4'0" (1524mmx1219.2mm).Ou ter frame section sizeof 72x50mm.Shutter frame section sizeof 48 x 25 mm.Mullion section size of72x50mm. Fixed beading section sizeof12x 12mm.	1 Sqm	**6625**
799	MAT-01433	BMT-P.25	Centre fixed both side openable shutterwindow6'0"x4'0"(1828.8mmx1219 .2mm).Outer frame section sizeof 72x50mm.Shutter frame section sizeof 48 x 25 mm.Mullion section size of72x50mm. Fixed beading section sizeof12x 12mm.	1 Sqm	**5797**
800	MAT-01438	BMT-P.30	**ITEMDELETED**		
801	MAT-01439	BMT-P.31	**ITEMDELETED**		
802	MAT-01440	BMT-P.32	Galvanizedpowdercoated**CasementWin dows with openable shutters** dulymanufacturedusingpressedsteelsect ionsinmildsteelconformingtoIS 513ofhaving1.0mmthickandgalvanized as per IS 277 of 120 GSMsurfacetreatmentwithpurepolyester powder coating of 30-40 microns thickandsectionforouterframeof60x50m m,centreformullionof62x50mm, section for shutter of 52 x 22mm, outer frame and mullions to haveonesiderebateforglazedshutterofsiz e24mmand10x10mmsquareguard bars provided at 125 mm c/c thesectionsassembledwithbolt&nutasse mblywithzinc-electroplatedM-5bolts,GIHandleofsize80mmx15mm -1Nopershutter,2nosofstainlesssteel heavy duty pivot hinges of size 3"of SS304Gradeper shutter, windowpanes with 5 mm thick plain float glassand fixed with glass beading section of10x12mmsizewith0.8mmthick	1 Sqm	**5168**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			powdercoatedaluminium'U'channelandwindowframesfixingtotheconcrete/masonry wall arrangement withselfexpandingscrews,completeforfinished item of work - 1220 x 1372 orbelowsize		
803	MAT-01441	BMT-P.33	GalvanizedpowdercoatedCasementWindows with openable shutters dulymanufacturedusingpressedsteelsectionsinmildsteelconformingtoIS 513ofhaving1.0mmthickandgalvanized as per IS 277 of 120 GSMsurfacetreatmentwithpurepolyester powder coating of 30-40 microns thickandsectionforouterframeof60x50mm,centreformullionof62x50mm, section for shutter of 52 x 22mm, outer frame and mullions to haveonesiderebateforglazedshutterofsize24mmand10x10mmsquareguard bars provided at 125 mm c/c thesectionsassembledwithbolt&nutassemblywithzinc-electroplatedM-5bolts,GIHandleofsize80mmx15mm -1Nopershutter,2nosofstainlesssteel heavy duty pivot hinges of size 3"of SS304Gradeper shutter, windowpanes with 5 mm thick plain float glassand fixed with glass beading section of10x12mmsizewith0.8mmthickpowdercoatedaluminium'U'channelandwindowframesfixingtotheconcrete/masonry wall arrangement withselfexpandingscrews,completeforfinished item of work - 1530 x 1372 orabovesize	1 Sqm	**4630**
804	MAT-01442	BMT-P.34	GalvanizedpowdercoatedCasementWindowswithopenableshuttersdulymanufacturedusingpressedsteelsectionsinmildsteelconformingtoIS 513ofhaving1.0mmthickandgalvanized as per IS 277 of 120 GSMsurfacetreatmentwithpurepolyester powder coating of 30-40 microns thickandsectionforouterframeof88x50mm, centre for mullion of 62x88mm,sectionforglassandfly-proofmeshshutterof52x22mm,outerframe and mullions to have two sidesrebate for glazed shutter of size 24 mmand10x10mmsquareguardbarsprovidedat125mmc/cthesectionsassembled with bolt & nut assembly withzinc-electroplatedM-5bolts,GIHandle	1 Sqm	**6493**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			ofsize80mmx15mm-1Nopershutter, 2 Nos of stainless steel heavyduty pivot hinges of size 3" of SS 304Grade per shutter, window panes with 5mm thick plain float glass and fixed withglass beading section of 10x12 mm sizewith0.8mmthickpowdercoatedaluminium'U'channelandfly-proofmesh of SS 304 grade fixed with 18 mmx 12 mm BT wood beading and windowframesfixingarrangementtotheconcrete/masonrywallwithselfexpanding screws, complete for finisheditemofwork-1220x1372 orbelowsize		
805	MAT-01443	BMT-P.35	GalvanizedpowdercoatedCasementWindows with openable shutters dulymanufacturedusingpressedsteelsectionsinmildsteelconformingtoIS 513ofhaving1.0mmthickandgalvanized as per IS 277 of 120 GSMsurfacetreatmentwithpurepolyesterpowder coating of 30-40 microns thickandsectionforouterframeof88x50mm, centre for mullion of 62x88mm,sectionforglassandfly-proofmeshshutterof52x22mm,outerframe and mullions to have two sidesrebate for glazed shutter of size 24 mmand10x10mmsquareguardbarsprovidedat125mmc/cthesectionsassembled with bolt & nut assembly withzinc-electroplated M-5 bolts, GI Handleofsize80mmx15mm-1Nopershutter, 2 Nos of stainless steel heavyduty pivot hinges of size 3" of SS 304Grade per shutter, window panes with 5mm thick plain float glass and fixed withglass beading section of 10x12 mm sizewith0.8mmthickpowdercoatedaluminium'U'channelandfly-proofmesh of SS 304 grade fixed with 18 mmx 12 mm BT wood beading and windowframesfixingarrangementtotheconcrete/masonrywallwithselfexpanding screws, complete for finisheditemofwork-1530x1372 orabovesize	1 Sqm	**5969**
806	MAT-01444	BMT-P.36	Providing&FixingofMeshwindowsmadeofpre-paintedsteel(BaseSteelasperIS513of0.58mmthickgalvanizedasperIS277withzinc of 120GSM),primercoatedwithepoxyprimerof5-7micronsthick,finishpainted with a polyester paint of 12-16micronsthickandbackcoatedwith5-7	1 Sqm	**4333**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			microns thick alkyd backer, section forouterframeof47x36mm,centremullion of 60 x 36 mm,section meshbeading18x6mmand**Flymeshshutter**sectionof20x40mm,thesections cut to length meter joined withcorner bracket and centre mullions fixedwith mullion cap,handles, latch, 2 Nosofheavydutystainlesssteelpivothingesper S.S.Meshforflymeshshutter (304 grade) including fixing theframes in the concrete/masonry wall bymeansofselfexpandingscrewscompleteforfinished itemofwork.		
			Providingandfixingof**Openable/CasementWindows**madeofpre-painted steel (Base steel as per IS 513of0.80mmthickgalvanizedasperIS 277withZincof120GSM),finishpainted with a polyester paint of 60-65micronsthickandsectionforouterframe of 80 x 45 mm, centre mullion of80 x 60 mm, section for shutter of 52 x25 mm x 0.6 mm thick, outer frame andmullionstohaverebateforglazedshutterwithaprovisionforguardbars/grills and the sections cut to lengthmetre joined with corner bracket, centremullion fixed with mullion cap, 1 No. ofHigh grade nylon latch handle, windowstopper,2nos.ofwithMSPowdercoated/SSballbearingbuttHingesprovided per shutter and windows fittedwith4mmthick plainfloat glass withrubbergasketsincludingfixingtheframesinconcrete/masonrywallbymeansofself expandingscrews,Including 10 mm Square guard bars with6”(152.4mm)pitchetc.,completeforfinished itemofwork.		
807	MAT-01454	BMT-P.46	Single openable shutter window size of2’ 0” x 4’ 0” (609.6 x 1219.2mm) outerframesectionsizeof80x45mm,shutter frame section size of 52 x 25mmthick	1sqm	**4625**
808	MAT-01455	BMT-P.47	Double openable shutter window Size of3’0”x4’0”(914.4mmx1219.2mm) outerframesectionsizeof80x45mm,shutter frame section size of 52 x25mm, vertical mullion section size of 80x60mm	1sqm	**4917**
809	MAT-01456	BMT-P.48	Doubleopenableshutterwindowsizeof4’0” x4’0”(1219.2mmx1219.2mm)	1sqm	**4917**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			outerframesectionsize80x45mm,shutterframesectionsizeof52x25mm ,Vertical mullion section size of 80 x60mm		
810	MAT-01457	BMT-P.49	DoubleOpenableShutterandCenterFixed window of size 5'0 x 4'0 (1524 x1219.2mm)outerframesectionsizeof80 mmx45mm,shutterframesectionsizeof52 x25mm,Verticalmullionsectionsizeof80x 60mm,beadingsection size of 9 x 12mmto be providedforglass holding	1sqm	**4333**
811	MAT-01458	BMT-P.50	DoubleOpenableShutterandCenterFixed window of size 6'0 x4'0 (1829.6 x1219.2mm)outerframesectionsizeof80 mm x 45mm , shutter frame sectionsizeof52x25mm,Verticalmullionsection tionsizeof80x60mm,beadingsection size of 9 x 12mmto be providedforglass holding	1sqm	**4333**
			Note:Theabove rates are fornormalfinish,10%extramaybeallowedforWoodGrainfinish		
			ProvidingandfixingofOpenable/Casement Windows with fly mesh madeof pre-painted steel (Base steel asperIS 513 of 0.80 mm thick galvanized asper IS 277 with Zinc of 120 GSM), finishpainted with a polyester paint of 60-65micronsthickandsectionforouterframe of 100 x 45 mm, centre mullion of100 x 60 mm, section for shutter of 52 x25 mm x 0.6 mm thick, section for fly-shutter of 52 x 25 mm x 0.6 mm thickand fitted with stainless steel 32 gaugefly mesh of 304grade with 144holesper sq.inch and mullions to have doublerebate for glazed shutter and fly-shutterwith a provision for guard bars/grills andthe sections cut to length metre joinedwith corner bracket, centre mullion fixedwith mullion cap, 1 No. of High gradenylonlatchhandle, window stopper, 2nos. of with MS Powder coated /SS ballbearing butt Hinges provided per shutterand windows fitted with 4 mm thick plainfloat glass with rubber gaskets includingfixingtheframesinconcrete/masonrywallbymeansofselfexpandingscrews , Including 10 mm Square guardbarswith6"(152.4mm)pitchetc.,completeforfinished itemofwork.		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
812	MAT-01459	BMT-P.51	Single openable shutter window size of2' 0" x 4' 0" (609.6 x 1219.2mm) outerframe Double rebate section size of100x45mm,Glazedandflymeshshutterprofilesectionsizeof 52x25mm	1sqm	**6135**
813	MAT-01460	BMT-P.52	Double openable shutter window Size of3'0"x4'0"(914.4mmx1219.2mm) outer frame Double rebate section sizeof100x45mm,Glazedandflymeshshutterprofilesectionsizeof52x25mm,verticalmullionsectionsizeof100x 60mm	1sqm	**6426**
814	MAT-01461	BMT-P.53	Double openable shutter window size of4'0"x4'0"(1219.2mmx1219.2mm) outer frame Double rebate section sizeof100x45mm,Glazedandflymeshshutterprofilesectionsizeof52x25mm,verticalmullionsectionsizeof100x 60mm	1sqm	**6426**
815	MAT-01462	BMT-P.54	DoubleOpenableShutterandCenterFixed window of size 5'0 x 4'0 (1524 x1219.2mm)outerframesectionsizeof80 mm x 45mm , shutter frame sectionsizeof52x25mm,Verticalmullionsection size of 100 x 60 mm , beadingsection size of 9 x 12mmto be providedforglass holding	1sqm	**5843**
816	MAT-01463	BMT-P.55	DoubleOpenableShutterandCenterFixed window of size 6'0 x4'0 (1829.6 x1219.2mm)outerframesectionsizeof80 mm x 45mm , shutter frame sectionsizeof52x25mm,Verticalmullionsection size of 100 x 60 mm , beadingsection size of 9 x 12mmto be providedforglass holding	1sqm	**5843**
			Note:Theabove rates are fornormalfinish,10%extramaybeallowedforWoodGrainfinish		
817	MAT-01481	BMT-P.73	**ITEMDELETED**		
			Supplyingandfixingof**WINDOWS**withPre laminatedCement BondedParticle boards and Pre-Painted SteelSections(PPS)fabricated from pre-painted Cold rolled formed sectionsmade of galvanized steelcolor coatedsections (Basesteelas per IS-512 Dquality, galvanized as per IS-277 withZinc of 120 gram/sqm) with total coatedthicknessof0.58mmprimercoated withepoxy primer of 5-7 micronsthick,finishpaintedwithpolyester paintof		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			12-16 micronsandbackcoatedwithalkydbacker of5-7microns), sectionsfor outer frame and centre mullion (dulyfilled with PU form of 40 kg/Cum) of60mm x 50mm, with provision for fixingglazed shutter and the section forglazed/paneled of size 48 mm x 25 mmand another section of size 60 mm x 23mm provided for separating glazed andpaneledportion,thesectioncuttolength andmiter jointedwithplasticcorner brackets andwithcornerbrackets for window outer frames of50mm x 60mm, the mullion section fixedto the frame with plastic mullion cap andstiffener plates of size 60 mm x 50 mmmade of1.25mm thick CRCAelectroplated provided to fix windowframes to concrete/masonry, gasket forfixing glass and 10mm both sides pre-laminated cement bonded particle boardand 5 mm thick color pin headed glassprovided for glazing and providing guardbars of 10 mm square rods duly weldedat 150 mm pitch to MS flat section ofsize 18 mm and 3 mm thick, and fixed towall by means of self expansion nylonCap (75) and electroplated woodenscrews of size 100 mm, togetherwithaluminum powder coated fittings, A)75mm long grip handles 1 no pershutter, B) 75 mm long tower bolts 2nos.pershutter,C)HeavydutySSPivothinges2no'spershutter,D)MSPowder coated telescopic stay 1 no pershutter.		
818	MAT-01484	BMT-P.76-A	Pre Laminated Cement Bonded ParticleBoardWINDOWS– Singleshutter2'0"x4'0"outerframesection sizeof50mmx60mm shutter frame sectionsizeof48mmx 25mm.	1 Sqm	**5237**
819	MAT-01485	BMT-P.76-B	Pre Laminated Cement Bonded ParticleBoardWINDOWS –Double shutter 3'0"x4'0" outer frame section size of 50mmx60mmshutterframesectionsizeof 48mmx25mmmullionsectionsizeof50mm x 60mmforouterframe.	1 Sqm	**5287**
820	MAT-01486	BMT-P.76-C	Pre Laminated Cement Bonded ParticleBoard WINDOWS – Double shutter 3'0"x3'0" outer frame section size of 50mmx60mmshutterframesectionsizeof 48mmx25mmMullionsectionsizeof50mm x 60mmforouterframe.	1 Sqm	**5499**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
821	MAT-01487	BMT-P.76-D	Pre Laminated Cement Bonded ParticleBoardWINDOWS– Doubleshutter4'0"x4'0"outerframesectionsizeof50mmx60mm shutter frame sectionsize of 48mm x 25mm Mullion sectionsizeof50mm x 60mmforouter frame.	1 Sqm	**5086**
		II.SUB-SECTION	**SLIDINGWINDOWS**		
822	MAT-01434	BMT-P.26	Providing and fixing Pre painted Steel**slidingWindow/Doo**rfabricatedfrom roll formed sections made of Galvanizedsteelcolourcoated/powdercoated(BaseSteelasperIS513'D'qualitygalvanizedasperIS277withZincof 120Gms./Sq.mtr)withtotalcoatedthickness of 0.58mm. Primer Coat withepoxyprimerof5-7micronsthick,finished paint with a polyester paint of12-16micronsthickandbackcoatedwithAlkydbackerof5-7micronsorpowdercoatedwithpurepolyesterpowderupto50-60micronsthick.TheExternalSectionfortwotrackSliding Window should be of 44 x 59mmwith a provision for bottom track insertprofile of 10x9 mm made of aluminium.Section for Window glass shutter shouldbeof35x49mm,SectionforWindow Eurogrooveshouldbeof25x24mmmadeof plastictoaccommodatestandardaccessories,andsectionforwindow lap strip should be of 21x4mmmade of plastic.SectionforDoorshuttershouldbeof35x67mm,SectionforDoorEuroGroove25x31mmmadeofplastictoaccommodate standard accessories andsize of lap strip should be of 39x41mm.The Window/Doortobepanelled with5mm thick plain float glass. The gasketsaretobemadeofEthylPropyleneDiamineManomer[EPDM].CornerBrackets for internal and external frameto be made of glass filled nylon. Touchlock to be provided for Window Shutter.Sections are to be cut to length, joinedandassembledbymeansofcornerbrackets. The above frame to be fixed toBrick/Concrete masonry by using Nylonself-expandingcapsanddrivingMSelectroplated80mmscrewsintothecaps through frames. The Grill for safetyfor windows to be made of 10mm thicksquarerodbarswith152mmpitchfor	1 Sqm	**6166**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			complete item of work .For Door therewill be no Safety Grill including cost andconveyanceofallmaterials,accessories,labourchargesfortransportation, erection at site completeforfinisheditemofwork.		
823	MAT-01435	BMT-P.27	**ITEMDELETED**		
824	MAT-01436	BMT-P.28	**ITEMDELETED**		
825	MAT-01437	BMT-P.29	**ITEMDELETED**		
826	MAT-01445	BMT-P.37	ProvidingandfixingCOMPOSITESLIDING WINDOW fabricated from rollformedsectionsmadeofGalvanizedSteelcolourCoated/PowderCoated(Base Steel as per IS 513 "D" quality,GalvanizedasperIS277withZincof 120grams/Sq.Mtr.)withtotalcoatedthicknessof0.58mm,powdercoatedwith pure Polyester Powder up to 50-60micronsthickandthesectionforexternalframebottomof68x25mm(Aluminium), External frame sides & Topof 68 x 25 mm (Aluminium), section forshutterof59x23mmandLapStripof30 x 7.5mm (uPVC) cut to length andmitre joined withL-bracket and 5 mmplainfloatGalsswithEthylPropyleneDiamine Monomer (EPDM) gasket, thecorner bracket for external frame madeof Aluminium 'L'-Angle, Corner Bracketfor internal frame made of Polyproylene,CrescentLatch,Rollers,&EPDMGaskets for shutters, wool pile for lapstrip,BumpStopBase&Rubberforshutterstopperincludingfixingtobrick/concrete masonryusingNylonself-expandingcapsanddrivingMSelectroplated 80mm long screws into thecaps through frames and fixing 10mmsquare guard bars with 6" pitch centre tocentre (152.4mm) completed for finisheditem ofwork	1 Sqm	**5411**
			ProvidingandfixingofTwoshutter**Sliding Windows** made of GalvanizedSteel(BaseSteelasperIS513, Dquality, galvanized as per IS 277 withZinc of 120 GSM), using factory madesectionpowdercoatedwithPurepolyesterpowderupto50-60micronsthick with total coated thickness of 0.58mmforOuterFrameand0.58mmthickness for Sliding Shutter Section, theOuterFrameforTwoTrackswithGrill		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			provision size of 90 mm x 50 mm andwithout grill provision is of 75 mm x 50mmandtheWindowShuttersectionof 0.58 mm x 36 mm and the outer Framewithtwointegratedguidetracksof12 mmwidthand24mmdeepforprovisiontoslidetheShutter/sashframe and facilitates with a water drainoutlet component made of PVC and theshutter frame fitted with 5mm thick plainfloatglassofreputedmakeandfixedwithEPDMweatheringsealresistantaccessoriesandhandlemadeofAlumimium 1 No. per each shutter andcuttolengthmiterjoinedwithcornerbrackets including installation of windowsystem at site using anchor fasteners,SiliconsealantappliedattheOuterframecornersinclusiveofconveyanceofallmaterialsaccessories,labourcharges,anderectionatsitewithcompletefinishediteмofwork.		
827	MAT-01446	BMT-P.38	a)WindowwithTwoSlidingShuttersand without Grill Outer Frame Size 75mmx 50 mm.	1 Sqm	**5411**
828	MAT-01447	BMT-P.39	b)WindowwithTwoSlidingShuttersandwithGrillOuterFrameSize90mmx 50 mm have a rebate of 15mm x 5 mmtofitgrillmadeof10mmMSSqRodsfor horizontal barswelded at a regularpitch of 150mm to 12mm x 6mm MSflat.	1 Sqm	**5647**
			Providingandfixingof**ThreeshutterSliding Windows** made of GalvanizedSteel(BaseSteelasperIS513, Dquality, galvanized as per IS 277 withZinc of 120 GSM), using factory madesectionpowdercoatedwithPurepolyesterpowderupto50-60micronsthick with total coated thickness of 0.58mmforOuterFrameand0.58mmthickness for Sliding Shutter Section, theOuter Frame for three tracks with grillprovision size of 105 mm x 50 mm andwithout grill provision is of 90 mm x 50mm and the Window Shutter section of58 mm x 36 mm and the outer Framewithtwointegratedguidetracksof12 mmwidthand24mmdeepforprovisiontoslidetheShutter/sashframe and facilitates with a water drainoutlet component made of PVC and theshutterframefittedwith5mmthickplain		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			floatglassofreputedmakeandfixedwithEPDMweatheringsealresistantaccessoriesandhandlemadeofAlumimium 1 No. per each shutter andcuttolengthmiterjoinedwithcornerbrackets including installation of windowsystem at site using anchor fasteners,SiliconsealantappliedattheOuterframecornersinclusiveofconveyanceofallmaterialsaccessories,labourcharges,anderectionatsitewithcompletefinisheditemofwork.		
			Windowwith3shutters(centerfixedshutter / Center sliding shutter / centerFly mesh shutter) and with Grill Windowmade of Outer Frame of Size 105 mm x50 mm.Grill made of 10mm MS SquareRodsforhorizontalbarsataregular pitchof150mmweldedtoMSflatof12x6mm.		
829	MAT-01448	BMT-P.40	i) Center Shutter Fixed:center shutterframe made of section with size 20mm x47mm should be fitted with 5mm thickplain float glass of reputed make, EPDMgasket all around the glass and fixed totheOuterFramewiththesupportingsectionofsize29mmx20mmof0.58mm thick fixed horizontally on topand bottomoftheshutterframe.	1 Sqm	**5647**
830	MAT-01449	BMT-P.41	ii) Center Shutter Sliding:center shutterframe made of section of size 20mm x47mmshouldbefittedwith 5 mmthick plain float glass of reputed make.Thesupportingguidesectionofsize15mmx19mmof0.58mmthickfixedhorizontally at top and bottom of shutterframe and slides along the bottom andtop guide tracks made of sections size24mmx20mmof0.58mmthickand29mmx 20mm of0.58mmthick	1 Sqm	**6183**
831	MAT-01450	BMT-P.42	iii)CenterFlymeshShutterSliding:SectionforFlymeshShutterframeshouldbeofsize20mmx40mmof0.58mm thick and fitted with SS mesh(304Grade).Thesupportingguidesectionofsize29mmx20mmof0.58mm thick at the bottom and 15mm x19mm of 0.58mm thick at the top fixedhorizontally to the Fly mesh frame andslides along the bottom and top guidetracks made of sectionssize 20mm x20mm of 0.58mm and 29mm x 20mm of0.58mm.	1 Sqm	**6183**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			Window with 3 shutters (Center fixedshutter / Center sliding shutter / centerFlymeshshutter)andwithoutGrillWindow made of Outer Frame of size90mmx 50mm.		
832	MAT-01451	BMT-P.43	i)Center Shutter Fixed:center shutterframe made of section with size 20mm x47mm of 0.58mm thick should be fittedwith5mmthickplainfloatglassofreputed make, EPDM gasket all aroundthe glass and fixed to the Outer Framewiththesupportingsectionofsize29mmx20mmof0.58mmthickfixedhorizontallyontopandbottomoftheshutterframe.	1 Sqm	**5064**
833	MAT-01452	BMT-P.44	ii) Center Shutter Sliding:center shutterframe made of section with size 20mm x47mm of 0.58mm thick should be fittedwith5mmthickplainfloatglassofreputedmake.Thesupportingguidesectionofsize15mmx19mmof0.58mmthickfixedhorizontallyattopand bottom of shutter frame and slidesalong the bottom and top guide tracksmade of sections size 24mm x 20mm of0.58mmthickand29mmx20mmof0.58mmthick.	1 Sqm	**5541**
834	MAT-01453	BMT-P.45	iii)CenterFlymeshShutterSliding:SectionforFlymeshshutterframeshould be of size 20mm x 40mm andfitted with SS mesh (304 Grade). Thesupporting guide section of size 29mm x20mmof0.58mmthickatthebottomand 15mm x 19mm of 0.58mm thick atthe top fixed horizontally to the Fly meshframe and slides along the bottom andtop guide tracks made of sections size20mmx20mmof0.58mmthickand29mmx 20mm of0.58mmthick.	1 Sqm	**5541**
835to 837		BMT-P.70 toP.72	**ITEMDELETED**		
838		BMT-P.78	ProvidingandfixingfactorymadeuPVCwhite colour casement/casementcumfixedglazed windowscomprising ofuPVC multi-chambered frame,sash andmullion (where ever required) extrudedprofilesduly reinforced with 1.60±0.2mm thick galvanizedmildsteel section made from rollformingprocess of required length (shape & sizeaccording to uPVCprofile),uPVCextrudedglazingbeadsofappropriate		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			dimension, EPDMgasket, stainless steel(SS304grade)frictionhinges,zincalloy(white powder coated) casement handles, G.Ifasteners 100 x 8 mm size forfixingframe to finished wall, plastic packers,plastic caps and necessarystainlesssteelscrewsetc.Profileofframe&sashshall bemitredcut andfusionweldedatallcorners,mullion(if required) shall be also fusionweldedincluding drilling of holes for fixinghardware'sanddrainageofwateretc. After fixing frame the gap betweenframeandadjacentfinishedwallshallbefilled with weather proof silicon sealantoverbackerrodof requiredsizeandofapprovedquality,allcomplete as per approveddrawing &directionofEngineer-in-ChargeinclusiveofcostofSingle/doubleglasspanesand siliconsealant. **Note: For uPVC frame, sash andmullionextrudedprofiles minus5%toleranceindimensioni.e.indepth& width of profile shall beacceptable.Variation in profiledimension in higher side shall beacceptedbutnoextrapaymentonthisaccount shallbemade.**		
839	MAT-05444	BMT-P.78.A	Casement window double panels withtop fixed with S.S. frictionhinges (350 x19 x 1.9 mm) made of (small series)frame47 x 50mm, sash 47 x 68 mm &mullion 47 x 68 mm allhaving wallthickness of 1.9 ± 0.2 mm and singleglazingbeadofappropriatedimension.(Area ofwindowupto 2.50sqm).	Sqm	6283.00
840	MAT-05445	BMT-P.78.B	Casementcumfixedpanelwindowhaving both end singlecasementpanel,middlefixedpanelsand at top completelyfixed ventilator with S.S friction hinges(350x19x1.9)madeof(bigseries) frame 67 x 60 mm , sash 67 x 80 mm&mullion67x80mmallhavingwallthicknessof2.3±0.2mmandsingleglazingbead/doubleglazingbeadofappropriatedimension. (Area of windowabove 3.00 sqm upto 5.00sqm).	Sqm	6517.00
	MAT-05446	BMT-P.79	ProvidingandfixingfactorymadeuPVCwhite colour fixed **glazedwindows /Ventilators**comprisingof uPVCmulti-		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			chambered frame andmullion (whereever required) extruded profiles dulyreinforced with 1.60± 0.2 mm thickgalvanizedmildsteelsectionmadefro mrollforming processofrequiredlength(shape&sizeacc ording to uPVC profile),uPVCextruded glazing beads of appropriatedimension, EPDM gasket,G.I fasteners100 x 8 mm size for fixing frame tofinishedwall,plasticpackers,plasticcaps and necessary stainless steelscrewsetc.Profile of frame shall be mitred cut and fusionwelded at all corners, mullion(ifrequired) shall be also fusion weldedincluding drilling of holes forfixinghardware's and drainage of wateretc. After fixing frame the gap betweenframe and adjacent finished wall shallbe filled with weather proofsiliconsealant over backer rod ofrequired size and of approved quality,allcompleteasperapproveddrawi ng &direction of Engineer-in-Chargeinclusive ofcost ofSingle / doubleglasspanesandsiliconsealant. Note:ForuPVCframe,sashandmullionextr uded profiles minus 5%tolerance indimension i.e. in depth & width of profileshall be acceptable.Variation in profiledimension in higher side shall beacceptedbut no extra payment on thisaccountshallbemade.		
841			Fixed windows / Ventilatorsmade of(smallseries)frame47x50mm&mullion 47 x 68 mm both having wallthicknessof1.9±0.2mmandsingleglaz ingbeadofappropriatedimension.	1 Sqm	5830.00
842		BMT-P.80	Providing and fixing factory made uPVCwhitecolour**sliding glazedwindow**upto1.50minheightdimen sioncomprising of uPVC multi-chamberedframe with in-built roller trackand sash extruded profiles dulyreinforced with 1.60±0.2mm thick galvanizedmildsteel section made from rollformingprocess of required length (shape & sizeaccording to uPVCprofile), appropriatedimension of uPVC extruded glazingbeads anduPVC extruded interlocks,EPDMgasket,woolpile,zincallo y(white		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			powder coated) touch locks with hook,zinc alloy body with single nylonrollers(weightbearingcapacitytobe40kg), G.Ifasteners 100x8mmsizeforfixingframe to finished wall and necessarystainless steel screwsetc. Profile offrame & sash shall be mitred cut andfusion welded atall corners, including drilling of holes forfixing hardware's and drainage ofwateretc. After fixing frame the gap betweenframeandadjacentfinishedwalls hallbefilled with weather proof silicon sealentover backer rod ofrequired size and ofapproved quality, all complete as perapproveddrawing & direction of Engineer-in-ChargeinclusiveofcostofSingle/doubleglasspanes, wiremesh and silicon sealent .**Note: For uPVC frame and sashextruded profiles minus 5%tolerancein dimension i.e. in depth &width of profile shall beacceptable.Variation in profiledimension in higher side shall beacceptedbutnoextrapaymentonthis account shallbemade.**		
843	MAT-05447	BMT-P.80.A	Twotracktwopanelsslidingwindowmade of (small series)frame 52 x 44 mm &sash 32 x 60 mmboth having wallthicknessof1.9±0.2mmandsingle glazing bead ofappropriate dimension. (Area of windowupto 1.75sqm)	1 Sqm	6038.00
844	MAT-05448	BMT-P.80.B	Three track three panels sliding windowwith fly proof SSwire mesh (Two nos. glazed & one no.wire mesh panels)madeof (small series)frame92 x44mm & sash 32 x 60 mmboth having wallthickness of 1.9 ± 0.2 mm and singleglazingbeadofappropriatedimension(Areaofwindowupto1.75 sqm).	1 Sqm	8058.00
845	MAT-05449	BMT-P.80.C	Twotracktwopanelsslidingwindowmade of (big series)frame 67 x 50 mm & sash 46 x 62 mmboth having wallthickness of 2.3 ± 0.2 mm and singleglazing bead / doubleglazing bead of appropriate dimension .(Area of window above 1.75 sqm	1 Sqm	6220.00

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			upto2.50sqm).		
846	MAT-05450	BMT-P.81	ProvidingandfixingfactorymadeuPVCwhite colour **sliding glazed window**above 1.50 m in height dimensioncomprising of uPVC multi-chamberedframe with in-built roller track and sashextruded profilesdulyreinforced with 1.60±0.2mm thick galvanizedmildsteel section made from rollformingprocess of required length (shape & sizeaccording to uPVCprofile), appropriatedimension of uPVC extruded glazingbeads, uPVCextruded interlocks anduPVC extruded Inline sash adaptor (ifrequired), EPDMgasket,woolpile,zincalloy(white powder coated) handle ononeside of extreme panel along with zincplated mild steel multi pointlockinghaving transmission gear with keeps,zinc alloy (white powdercoated) touchlock with hook (if required for wire meshpanel), stainlesssteel (SS 304 grade)bodywithadjustabledoublenylonrollers(weightbearingcapacitytobe120kg), G.I fasteners 100 x 8 mm size forfixingframe to finished wall andnecessarystainlesssteelscrewsetc. Profileof frame & sash shall be mitredcut and fusion welded at allcorners,including drilling of holes forfixinghardware'sanddrainageofwater etc. After fixing frame the gap betweenframeandadjacentfinishedwalls hallbefilled with weather proof silicon sealentover backer rod of requiredsize and ofapproved quality, all complete as perapproveddrawing& directionof Engineer-in-ChargeinclusiveofcostofSingle/doubleglasspanes, wire meshand silicon sealent .**Two track two panels sliding window**made of (big series)frame 67 x 50 mm& sash 46 x 62 mm both having wallthickness of 2.3 ± 0.2 mm and singleglazing bead/double glazingbeadofappropriatedimension.(Areaof windowabove2.50 sqmupto 4.00sqm.) **Note: For uPVC frame and sashextruded profiles minus 5%toleranceindimensioni.e.indepth &widthofprofileshallbe**	1 Sqm	6174.00

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			acceptable.Variation in profiledimensioninhighersideshallbeaccepted butnoextrapaymentonthisaccountshallbemade.		
		III.SUB-SECTION	**VENTILLATORS**		
			Providingandfixingof**tophungVentilators**madeofpre-paintedsteel(Base steel as per IS 513 of 0.80 mmthick galvanized as per IS 277 with Zincof120GSM),finishpaintedwithapolyesterpaintof60-65micronsthickand section for outer frame of 80 x 45mm,centremullionof80x60mm,section for shutter of 52 x 25 mm x 0.6mm thick, outer frame and mullions tohaverebateforglazedshutterwithaprovisionforguardbars/grillsandthesections cut to length metre joined withcorner bracket, centre mullion fixed withmullion cap, 1 No. of High grade nylonlatch handle, window stopper, 2 nos. ofwith MS Powder coated /SS ball bearingbuttHingesprovidedpershutterandwindowsfittedwith4mmthickplainfloat glass with rubber gaskets includingfixingtheframesinconcrete/masonrywallbymeansofselfexpandingscrews, Including 10 mm Square guardbarswith6”(152.4mm)pitchetc.,completeforfinished itemofwork.		
847	MAT-01464	BMT-P.56	Single openable ventilator shuttersizeof 2’ 0” x 2’ 0” (609.6 x 609.6mm) outerframesectionsizeof80x45mm,shutter frame section size of 52 x 25mmthick	1sqm	**5550**
848	MAT-01465	BMT-P.57	Double openable ventilator shutterSizeof4’0”x2’0”(1219.2mmx609.6mm) outerframesectionsizeof80x45mm,shutter frame section size of 52 x25mm, vertical mullion section size of 80x60mm	1sqm	**5550**
849	MAT-01466	BMT-P.58	Double openable fix shuttersize of 4’0”x3’0”(1219.2mmx914.4mm)outerframesectionsizeof80x45mm,shutterframessectionsizeof52x25mm ,Vertical mullion section size of 80 x60mm	1sqm	**5550**
850	MAT-01467	BMT-P.59	Single fixed Louvers Ventilator size of2’ 0” x 2’ 0” (609.6 x 609.6mm) outerframeboxsectionsize of80x45mm	1sqm	**3797**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
851	MAT-01468	BMT-P.60	Double fixed Louvers ventilatorSize of4'0"x2'0"(1219.2mmx609.6mm) outerframeboxsectionsizeof80x45mm, vertical mullion section size of 80x60mm	1sqm	**3797**
852	MAT-01469	BMT-P.61	Double fixed Louvers Ventilatorsize of4'0" x 3'0" (1219.2mm x 914.4mm) outerframe box section size of 80 x 45mm ,Vertical mullion section size of 80 x 60mm	1sqm	**3797**
			Note:Theabove rates are fornormalfinish,10%extramaybeallowedf orWoodGrainfinish		
			Providingandfixingof**tophungVentilator with fly mesh** made of pre-painted steel (Base steel as per IS 513of0.80mmthickgalvanizedasperIS 277withZincof120GSM),finishpainted with a polyester paint of 60-65micronsthickandsectionforouterframe of 100 x 45 mm, centre mullion of100 x 60 mm, section for shutter of 52 x25 mm x 0.6 mm thick, section for fly-shutter of 52 x 25 mm x 0.6 mm thickand fitted with stainless steel 32 gaugefly mesh of 304grade with 144holesper sq.inch and mullions to have doublerebate for glazed shutter and fly-shutterwith a provision for guard bars/grills andthe sections cut to length metre joinedwith corner bracket, centre mullion fixedwith mullion cap, 1 No. of High gradenylon latch handle, window stopper, 2nos. of with MS Powder coated /SS ballbearing butt Hinges provided per shutterand windows fitted with 4 mm thick plainfloat glass with rubber gaskets includingfixingtheframesinconcrete/mas onrywallbymeansofselfexpandingscrews , Including 10 mm Square guardbarswith6"(152.4mm)pitchetc.,com pleteforfinished itemofwork.		
853	MAT-01470	BMT-P.62	Singleopenableventilatorshutterwindow size of 2' 0" x 2' 0" (609.6 x609.6mm)outer framesectionsizeof 100x45mm,Glazedandflymeshshutter frame section size of 52 x 25mmthick	1sqm	**6865**
854	MAT-01471	BMT-P.63	Doubleopenableventilatorshutterwindow Sizeof 4' 0" x 2' 0" (1219.2mmx609.6mm)outerframesectio nsizeof 100 x 45mm, Glazed and flymesh	1sqm	**6865**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			shutterframesectionsizeof52x25mm,verticalmullionsectionsizeof100x 60mm		
855	MAT-01472	BMT-P.64	Double openable fix shutter window sizeof4'0"x3'0"(1219.2mmx914.4mm) outer frame section size 100 x 45mm ,Glazedandflymeshshutterframesectionsize52x25mm,Verticalmullionsectionsizeof 100x60mm	1sqm	**6865**
856	MAT-01473	BMT-P.65	Single fixed Louvers Ventilator windowsize of 2' 0" x 2' 0" (609.6 x 609.6mm)outer frame box section size of100 x45mm,flymeshshutterframesectionsize 52x 25mm	1sqm	**4625**
857	MAT-01474	BMT-P.66	Double fixed Louvers ventilator windowSizeof4'0"x2'0"(1219.2mmx609.6mm) outer frame box section sizeof 100 x 45mm, flymesh shutter framesection size 52 x 25 mm, vertical mullionsectionsizeof 100x60 mm	1sqm	**4625**
858	MAT-01475	BMT-P.67	Double fixed Louvers Ventilator windowsizeof4'0"x3'0"(1219.2mmx914.4mm)outerframeboxsectionsize 100x45mm,flymeshshutterframesection size 52 x 25 mm Vertical mullionsectionsizeof 100x60 mm	1sqm	**4625**
			Note:Theabove rates are fornormalfinish,10%extramaybeallowedforWoodGrainfinish		
			SupplyingandfixingofTopHungVentilators made of pre - painted steel(base steel as per IS 513 of -0.58 mmthick'D"quality,galvanizedasperIS 277withzincof120GSM)primercoated with epoxy primer of 5-7 micronsthick,finishpaintedwithapolyester paint of 12-16 microns thick and backcoatedwith5-7micronsthickalkydbacker,sectionforouterframeof46x52 mm section and for shutter of 46 x 46mmsectionformullion46x70mm,TheVentilatortobepanelled4mmpinheadglasswithEthylpropyleneDiamine monomer Gasket (EPDM) andthe sections cut to length mitre joinedwith corner brocket mullions fixed usingmullioncapandwithhandlemadeofhighgradealuminiumpowdercoatedandnylonreceiver,cornerbracketsmadeofCRCAwithZincPhosphate,Mullion caps made of glass filled nylon,framesfixedtotheconcrete/masonry		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			wall by means of self expanding screwsincluding 10 mm square guard bars with6"pitchcompleteforfinisheditemofwork.		
859	MAT-01418	BMT-P.10	Ventilators:TopHung2'-0"x2'-0"(609.6x609.6mm)outerframesectionsize of 46mm x 52 mmshutter framesectionsizeof 46mmx46mm	1 Sqm	**6295**
860	MAT-01419	BMT-P.11	Ventilators:TopHung4'-0"x2'-0"(1219.2x609.6mm)outer frame sectionsize of 46 x 52 m shutter frame sectionsize of 46 x 46 mm Mullion section sizeof46x 70mm	1 Sqm	**6295**
861	MAT-01420	BMT-P.12	Ventilators:TopHung4'-0"x3'-0"(1219.2x914.4mm) outer frame sectionsizeof46x52mmshutterframesectionsizeof46x46mmMullionsectionsizeof46x 70mm	1 Sqm	**6295**
			Supplying and fixing of Fixed LouveredVentilatorsmade of pre -painted steel(base steel as per IS 513 of -0.58 mmthick'D"quality,galvanizedasperIS 277withzincof120GSM)primercoated with epoxy primer of 5-7 micronsthick,finishpaintedwithapolyester paint of 12-16 microns thick and backcoatedwith5-7micronsthickalkydbacker,Thesectionforlouveredventilators should be of of 33 x 56 mmBox section paneled with4 mm pinheadglasswithEthylpropyleneDiaminemonomerGasket(EPDM)andthesections cut to length mitre joined withcornerbracket.cornerbracketsmadeofCRCAwithZincPhosphate.Theframestobefixedtotheconcrete /masonrywallbymeansofselfexpandingscrewsincluding10mmsquareguardbarswith6"pitchcompleteforfinished itemofwork.		
862	MAT-01421	BMT-P.13	Ventilators:Fixedlouvers2'-0"x2'-0"(609.6x609.6mm)(Boxsection)outerframesectionsizeof33x 56mm	1 Sqm	**4306**
863	MAT-01422	BMT-P.14	Ventilators:Fixedlouvers4'-0"x2'-0"(1219.2 x 609.6 mm) (Box section) outerframesectionsizeof33x56mmMullionsectionsizeof33x56mm	1 Sqm	**4306**
864	MAT-01423	BMT-P.15	Ventilators:Fixedlouvers4'-0"x3'-0"(1219.2 x 914.4 mm) (Box section) outerframesectionsizeof33x56mmMullionsectionsizeof33x56mm	1 Sqm	**4306**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
865to 868		BMT-P.68 toP.75	**ITEMSDELETED**		
869	MAT-01488	BMT-P.77	Providing and fixing 3 Track 3 ShutterPre painted Steel sliding Window/Doorfabricatedfromrollformedsections madeofGalvanizedsteelcolourcoated /powder coated (Base Steel as per IS513 'D' quality galvanized as per IS 277with Zinc of 120 Gms./ Sq.mtr) with totalcoatedthicknessof0.58mm.PrimerCoat with epoxy primer of 5-7 micronsthick,finishedpaintwithapolyesterpaint of 12-16 microns thick and backcoated with Alkyd backer of 5-7 micronsorpowdercoatedwithpurepolyesterpowder up to 50-60 microns thick. TheExternal Section for Three Track ThreeSlidingShuttershouldbeof44x107mm with a provision for bottom trackinsertprofileof10x9mmmadeofaluminium.SectionforWindowglassshutter should be of 35x49mm, Sectionfor Window Euro grooveshould be of25x24mmmadeofplastictoaccommodatestandardaccessories,and section for window lap strip shouldbe of 21x4mm made of plastic. SectionforMeshShuttershouldbeof35x49mm.SectionforDoorshuttershould be of 35x67mm, Section for DoorEuro Groove 25x31mm made of plastictoaccommodatestandardaccessoriesandsizeoflapstripshouldbeof39x41mm.TheWindow/Doortobepanelledwith5mmthickplainfloatglass. The gaskets are to be made ofEthylPropyleneDiamineManomer[EPDM].CornerBracketsforinternaland external frame to be made of glassfilled nylon. Touch locktobe providedfor Window Shutter. Sections are to becut to length, joined and assembled bymeansofcornerbrackets.Theaboveframetobefixedto Brick/Concretemasonry by using Nylon self-expandingcapsanddrivingMSelectroplated80mmscrewsintothecapsthroughframes. The Grill for safety for windowsto be made of 10mm thick square rodbars with 152mm pitch for complete itemof work .For Door there will be noSafetyGrillincludingcostandconveyanceofallmaterials,accessories, labour charges for	1 Sqm	**6818**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			transportation,erectionatsitecompleteforfinisheditemofwork.		
		Q.SECTION	**STRUCTURALGLAZING**		
		I.SUB-SECTION	**FIXEDGLAZING**		
870	MAT-01496	BMT-Q.08	**ITEMDELETED**		
871	MAT-01497	BMT-Q.09	**ITEMDELETED**		
		II.SUB-SECTION	**STRUCTURALGLAING**		
872	MAT-01489	BMT-Q.01	Providing and fixing **Structural Glazing**fabricatedfromRollformedsectionsmadeofPre-paintedSteel/Powdercoated (Base steel as per IS 513 of 'D'quality, galvanized as per IS 277 withZinc of 120 Gm/Sqm) with total coatedthicknessof0.72mmandtheglassholdingsectionmadeof304gradestainlesssteelof0.58mmthickgalvanisedsteelsectionasstiffenersinsidethecolourcoatedsteel powdercoatedsectionsasperthedesignrequirement & calculations to suit windpressures as given in IS: 875, the primercoat with epoxy primer of 5 – 7 micronsthick,finishpaintedwithapolyesterpaint of 12-16 microns thick and backcoated with Alkyd backer of 5-7 micronsorpowdercoatedwithpurepolyesterpowder up to 50-60 microns thick andtheverticalsectionof50mmx99mmx 0.72mm,33mmx56mmx0.72mmforframe horizontalsection,stiffenersection of 47 mm x97mm x1 mm,cover profiles sections of 20 mm x 58mmx0.58mm,glassholdingsectionof 37 mm x 37 mm & 37 mm x 18 mmincluding fixing 5mm thick Ocean Bluereflective glass, brackets made of CRCApowder coated/Electroplated to connectvertical to horizontal, vertical to slab, tofix verticals at top & bottom as per siterequirement and gasket made of EthylPropyleneDiamineMonomer,U.V.resistantsiliconsealantincludingfixingincrete/masonrywallwithself-expandingcap&screwsinclusiveofcost and conveyance of all materials tosite,alllabourcharges,incidentalcharges,costofallconsumablesetc.and fixing charges complete for finisheditemofwork.	1 Sqm	**6625**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
873	MAT-01490	BMT-Q.02	Providing and fixing Top Hung shuttersin**StructuralGlazing**fabricatedfromRollformedsectionsmadeofPre-paintedSteel/Powdercoated(BasesteelasperIS513of'D'quality,galvanizedasperIS277withZincof 120Gm/Sqm)withtotalcoatedthicknessof 0.72mmandtheglassholdingsectionmadeof304gradestainlesssteelof0.58mmthick, dulyprovidingstiffenersinsidethecolourcoated steel/powder coated sections asper the design requirement, calculationsto suit wind pressures as given in IS 875and primer coat with epoxy primer of 5-7micronsthickandbackcoatedwithAlkyd backer of 5-7 microns or powdercoated with pure polyester powder up to50-60 microns thick and the outer frameof 20 mm x 58 mm x 0.58 mm, shuttersections of 57 mm x 33 mm x 0.72 mm,stiffener sections of 55 mm x 31 mm x1mm, hinges – 2 Nos for each shutterand aluminium Stays – 2 Nos. for eachshutter, aluminium Handle– 1 no. foreachshutterincludingcostandconveyance of all materials to site, alllabour charges, incidental charges, costofallconsumablesetc.andfixingchargesetcforfinisheditemofwork	1 Sqm	**5355**
		III	**CURTAINWALLING**		
874	MAT-01491	BMT-Q.03	Supplying and fixing of **curtain Glazing**made of pre painted steel (base steel asper IS 513 of 0.58 mm thick D quality,galvanizedasperIS277withZincof 120GSM)Primercoatedwithepoxyprimer of5-7micronsthick,finishpainted with a polyester paint of 12- 16microns thick and back coated with 5-7micronsthickalkydbackerusingthesection for outer frame of 46 x 52 mm,section for mullion of 46 x 70 mm andsection for beading of 18 x 25 mm andthe glazing with 5 mm thick plain floatglassfittedwithEthylPropylenediameineMonomer(EPDM)gasketsandthesectionscuttolength,mitrejoinedwithcornerbracket,centremullions fixed suing mullion cap inludinghandle made of high grade Aluminiumpowdercoatedandnylonreceiver,cornerbracketsmadeofCRCAwithzinc phosphating, mullion caps made ofGlassfillednylonincludingfixingthe	1 Sqm	**5466**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			frames in the concrete / masonry wallwithselfexpandingscrews,etc.,complete forfinisheditem.-FixedGlazing2'-0"x2'-0"(609.6x609.6mm)grid outer frames section size of 46 x 52mm		
875	MAT-01492	BMT-Q.04	Mullionsectionsizeof46x70mmBeading section size of 18 x 25 mm - FixedGlazing2'-0"x3'-0"(609.6x914.4mm)gridouterframesectionsizeof46x 52mm	1 Sqm	**5466**
876	MAT-01493	BMT-Q.05	Mullionsectionsizeof46x70mmBeadingsectionsizeof18x25mmFixedGlazing3'-0"x3'-0"(914.4x914.4mm)gridouterframesectionsizeof46x 52mm	1 Sqm	**4295**
877	MAT-01494	BMT-Q.06	Mullionsectionsizeof46x70mmBeadingsectionsizeof18x25mmFixedGlazing3'-0"x4'-0"(914.4x1219.2mm)gridouterframesectionsizeof46x 52mm	1 Sqm	**4295**
878	MAT-01495	BMT-Q.07	**ITEMDELETED**		
		S.SECTION	**DISMANTLING clearing away andcarefullystackingmaterialsusefulforreuse.**		
879	MAT-01498	BMT-S.01	Stonemasonryincementmortar	1 Cum	**415**
880	MAT-01499	BMT-S.02	Terracingwork inroofsorfloors	10 Sqm	**175**
881	MAT-01500	BMT-S.03	Flatstonesinroofor floorsincludinglifting	10 Sqm	**152**
882	MAT-01501	BMT-S.04	PantiledorMangaloretiledroofwithoutrooftimbers.	10 Sqm	**127**
883	MAT-01502	BMT-S.05	FlatandpantilesorMangaloretilesoverflattileswithoutrooftimbers	10 Sqm	**152**
884	MAT-01503	BMT-S.06	Wroughtandframedtimberinroofsorfloors	1 Cum	**219**
885	MAT-01504	BMT-S.07	Oldlimemortarplaster	10 Sqm	**46**
886	MAT-01505	BMT-S.08	Oldcementmortar plaster	10 Sqm	**58**
887	MAT-01506	BMT-S.09	Dryroughstonerevetmentforapronsandstackingwithin40 Mlead	1 Cum	**69**
888	MAT-01507	BMT-S.10	Revetmentforapronsandstackinggroutedwithin40lead	1 Cum	**51**
889	MAT-01508	BMT-S.11	KadapaslabsorShahabadstoneslabs	10	**70**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			flooringonsandbed	Sqm	
890	MAT-01509	BMT-S.12	Through scraping of old plasteredsurface	10 Sqm	**46**
891	MAT-01510	BMT-S.13	Washing of plastered surface with soap,soda and water (or with soda lime andwater)	10 Sqm	**15**
892	MAT-01511	BMT-S.14	clean removal of lime plaster from wallsand raking out joints 20mm deep or fromterraced roof and raking out joints 100mmdeep	10 Sqm	**46**
893	MAT-01512	BMT-S.15	Cleanremovalofcementplasterfromwalls and rakingoutjoint200mmdeep	10 Sqm	**57**
		T.SECTION	**READYMIXCONCRETE**		**DELETED**
		U.SECTION	**EXPANSIONJOINTFILLERS**		
894	MAT-01513	BMT-U.01	Supplyofhighperformanceexpansionjoint fillerboardconformingtoM.O.S.T -18mmTHICK	1 Sqm	**686**
895	MAT-01514	BMT-U.02	Supplyofhighperformanceexpansionjoint fillerboardconformingtoM.O.S.T -20mmTHICK	1 Sqm	**770**
896	MAT-01515	BMT-U.03	Supplyofhighperformanceexpansionjoint fillerboardconformingtoM.O.S.T -25mmTHICK	1 Sqm	**960**
897	MAT-01516	BMT-U.04	Supply of expansion joint filler board forbuildings,columns,beamsandslabs20 mmTHICK	1 Sqm	**275**
898	MAT-01517	BMT-U.05	Supply of expansion joint filler board forbuildings,columns,beamsandslabs25 mmTHICK	1 Sqm	**340**
899	MAT-01518	BMT-U.06	Supply of expansion joint filler board forbuildings, columns, beams and slabs 50mmTHICK	1 Sqm	**685**
900	MAT-01519	BMT-U.07	Supplyofbackuptocoldappliedsealant in construction and longitudinaljoint-10mmOD	1RM	**11.5**
901	MAT-01520	BMT-U.08	Supplyofbackuptocoldappliedsealant in construction and longitudinaljoint-12mmOD	1RM	**13.5**
902	MAT-01521	BMT-U.09	Supplyofbackuptocoldappliedsealant in construction and longitudinaljoint-15mmOD	1RM	**15.5**
903	MAT-01522	BMT-U.10	Supplyofbackuptocoldappliedsealant in construction and longitudinaljoint-20mmOD	1RM	**22**
904	MAT-01523	BMT-U.11	Supplyofbackuptocoldappliedsealantinc onstructionandlongitudinal	1RM	**28**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			joint-25mmOD		
		V.SECTION	LABOURCHARGES		
905	MAT-01524	BMM-V.01	Bailingoutwaterforearthworkexcavation/concreteforfoundationbelowwaterlevel.(Forbuildingitemsonly)-Otherthansandysoil-0.0Mto 1.0M	1cum	**257**
906	MAT-01525	BMM-V.02	Bailingoutwaterforearthworkexcavation/concreteforfoundationbelowwaterlevel.(Forbuildingitemsonly)-Otherthansandysoil-1.0Mto 2.0M	1cum	**304**
907	MAT-01526	BMM-V.03	Bailingoutwaterforearthworkexcavation/concreteforfoundationbelowwaterlevel.(Forbuildingitemsonly)-Otherthansandysoil-2.0Mto 3.0M	1cum	**355**
908	MAT-01527	BMM-V.04	Bailingoutwaterforearthworkexcavation/forconcretefoundationbelowwaterlevel.(Forbuildingitemsonly)Sandysoil - 0.0Mto1.0M	1cum	**408**
909	MAT-01528	BMM-V.05	Bailingoutwaterforearthworkexcavation/forconcretefoundationbelowwaterlevel.(Forbuildingitemsonly)Sandysoil - 1.0Mto2.0M	1cum	**635**
910	MAT-01529	BMM-V.06	Bailingoutwaterforearthworkexcavation/concreteforfoundationbelowwaterlevel.(Forbuildingitemsonly)Sandysoil - 2.0Mto3.0M	1cum	**767**
911	LAB-00418	BMM-V.07	Labour charges for making, fabricatingofficefurniture,racks,work-stationfurniture,cup-boardshutterswithply-wood/MDFsheets,decolam/veneerlaminationsincludingfixingcutting,making, assembling, fixing hinges, fixingfixtures,fixinglocks,pastingsheets/laminationsfixinginpositionwithnecessaryscrewsexcludingcostofmaterials, accessories,fittings	1 Sqm	**644**
912	LAB-00419	BMM-V.08	Labour charges for making, fabricatingkitchenfurniture,cup-boardswithshutters,boxcup-boards,boxracks,withply-wood/MDFsheets,decolam/veneerlaminationsincludingfixingcutting,making,assembling,fixinghinges,fixingfixtures,fixinglocks,pastingsheets/laminationsfixinginpositionwithnecessaryscrewsexcluding cost of materials, accessories,fittings	1 Sqm	**984**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
913	LAB-00503	BMM-V.09	RoundingtheedgesofKadapa/Shahabad stone slabs of any thicknessincludingpolishingthesame	1Rm	**111**
914	LAB-00504	BMM-V.10	HalfRoundingtheedgesofMarble/Granite stoneslabsofallthicknessesincludingpolishingthesame.	1Rm	**338**
915	LAB-00505	BMM-V.11	FullRoundingtheedgesofMarble/Granitestoneslabsofallthicknessesincludingpolishingthesame.	1Rm	**438**
916	LAB-00506	BMM-V.12	Machine Cutting charges- for Marble/Graniteslabsupto50mmthickbymechanicaldevice.	1RM	**18**
917	LAB-00507	BMM-V.13	FlatnosingtoKadapa/Shahabadstoneslabsofany thick	1Rm	**53**
918	LAB-00420	BMM-V.14	LabourchargesforfabricatingsteelworkslikeWindowGrills,CompoundWallGrills,IronDoors,Windowsincludingcostofweldingrods,powercharges,excludingcostoffixinginposition	1Kg	**28**
919	LAB-00421	BMM-V.15	LabourchargesforfixingIronDoors,IronWindowsandWindowGrillsinposition	1Kg	**5**
920	LAB-00422	BMM-V.16	Labour charges for fabricating all heavysteelworkslikeTrusses,Stanchions, HeavyBeamsandGirdersincludingcost of welding rods, power charges, etcexcludingcostoffixing inposition	1Kg	**25**
921	LAB-00423	BMM-V.17	Labourchargesforfixingheavyirongrills,Trusses,Stanchions,HeavyBeams and Girders erecting in positionand fixing by using chain pulley blocks,Derekpolearrangementsandcranesetc.,completeinposition	1Kg	**22**
922	LAB-00424	BMM-V.18	LabourchargesforFabricationofstainless steelrailingworksusingstainlesssteelweldingrodsincludingbuffing,polishing,lacquerfinishing,topresentseamless finish	1Kg	**139**
923	LAB-00425	BMM-V.19	LabourchargesforFabricationofstainless steelsheetcladdingworksusingstainlesssteelweldingrodsincludingbuffing,polishing,lacquerfinishing,topresentseamlessfinish	1sqm	**1817**
924	LAB-00426	BMM-V.20	LabourchargesforGlassdesigningworksonanythicknessofGlassincludingfixingatsite -Etchingworks	1 Sqm	**1017**
925	LAB-00427	BMM-V.21	LabourchargesforGlassdesigning	1	**1258**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			worksonanythicknessofGlassincluding fixing at site - Reverse Etchingwork	Sqm	
926	LAB-00428	BMM-V.22	LabourchargesforGlassdesigningworksonanythicknessofGlassincludingfixingatsite-Acidwashworks	1 Sqm	**1573**
927	LAB-00429	BMM-V.23	LabourchargesforfixingFlushdoorshutters of any thickness to the existingdoor frame including fixing the fixtures tothedoorshutterexcludingcostofshutter	1 Sqm	**407**
928	LAB-00430	BMM-V.24	Labour charges for fixing glass panes ofanythicknesstotheexistingdoor/window panesincludingfixingthebeadingexcludingcostofbeading	1 Sqm	**304**
929	LAB-00431	BMM-V.25	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixturesetc.forTeakwoodFullypanelleddoorsexternalorinternalincludingframe	1sqm	**1672**
930	LAB-00432	BMM-V.26	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixtures etc. for Teak wood Glazed andpanelleddoorsincludingfixingglassincludingframe	1sqm	**1580**
931	LAB-00433	BMM-V.27	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixtures etc. for Teak wood Framed andplankeddoorsincludingframe	1sqm	**1386**
932	LAB-00434	BMM-V.28	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixturesetc.forTeakwoodLedged,bracedandplankeddoorsincludingframe	1sqm	**1094**
933	LAB-00435	BMM-V.29	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixtures etc. for Teak wood Flush typedoorshutterincludingframe	1sqm	**836**
934	LAB-00436	BMM-V.30	Labourchargesforwroughtandputupincludingfixinginpositionframes ofany	1sqm	**1070**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			size,shuttersfordoors,windows,ventilators including fixing all necessaryfixturesetc.forTeakwoodWindowsglazed including outer frame and shutterframe		
935	LAB-00437	BMM-V.31	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixturesetc.forTeakwoodWindowspanelledincludingouterframeandshutterframe	1sqm	**1613**
936	LAB-00438	BMM-V.32	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixturesetc.forTeakwoodWindowsledged,bracedandplankedincludingouterframe	1sqm	**1100**
937	LAB-00439	BMM-V.33	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixturesetc.forTeakwoodWindowsframedandplankedincludingouterframe andshutterframe	1sqm	**1317**
938	LAB-00440	BMM-V.34	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixtures etc. for Teak wood Ventilatorsglazed, fixed with double frame with wirenetting includingframe	1sqm	**887**
939	LAB-00441	BMM-V.35	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixturesetc.forTeakwoodSwing ventilators glazed including outer frameandshutterframe	1sqm	**1121**
940	LAB-00442	BMM-V.36	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixtures etc. for Teak wood Weld meshdoorsandwindowsincludingouterframe andshutterframe	1sqm	**630**
941	LAB-00443	BMM-V.37	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilatorsincludingfixingallnecessary	1sqm	**733**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			fixtures etc. for Teak wood G.I or .ACsheetdoor&windowsincludingouterframe andshutterframe		
942	LAB-00444	BMM-V.38	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixturesetc.forOtherthanteakwoodFully panelled doors external or internalincludingframe	1sqm	**1546**
943	LAB-00445	BMM-V.39	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixturesetc.forOtherthanteakwoodGlazedandpanelleddoorsincludingfixingglass including frame	1sqm	**1478**
944	LAB-00446	BMM-V.40	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixturesetc.forOtherthanteakwoodFramedandplankeddoorsincludingframe	1sqm	**1282**
945	LAB-00447	BMM-V.41	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixturesetc.forOtherthanteakwoodLedged,bracedandplankeddoorsincludingframe	1sqm	**1000**
946	LAB-00448	BMM-V.42	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixturesetc.forOtherthanteakwoodFlushtype doorshutterincludingframe	1sqm	**800**
947	LAB-00449	BMM-V.43	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixturesetc.forOtherthanteakwoodWindows glazed includingouter frameandshutterframe	1sqm	**1000**
948	LAB-00450	BMM-V.44	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixturesetc.forOtherthanteakwoodWindows panelled including outer frameandshutterframe	1sqm	**1490**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
949	LAB-00451	BMM-V.45	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixturesetc.forOtherthanteakwoodWindowsledged,bracedandplankedincludingouter frame	1sqm	**1019**
950	LAB-00452	BMM-V.46	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixturesetc.forOtherthanteakwoodWindows framed and planked includingouterframeandshutterframe	1sqm	**1217**
951	LAB-00453	BMM-V.47	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixturesetc.forOtherthanteakwoodVentilatorsglazed,fixedwithdoubleframewith wirenettingincludingframe	1sqm	**862**
952	LAB-00454	BMM-V.48	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixturesetc.forOtherthanteakwoodSwing ventilators glazed including outerframe andshutterframe	1sqm	**1075**
953	LAB-00455	BMM-V.49	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixturesetc.forOtherthanteakwoodWeldmeshdoorsandwindowsincludingouterframeandshutterframe	1sqm	**600**
954	LAB-00456	BMM-V.50	Labour charges for wrought and put upincluding fixing in positionframes of anysize,shuttersfordoors,windows,ventilators including fixing all necessaryfixtures etc. for Other than teakwood G.Ior .ACsheet door & windows includingouterframeandshutterframe	1sqm	**700**
955	LAB-00508	BMM-V.51	Grooves2-3mm	1Rm	**58**
		W.SECTION	**MISCELLANEOUSITEMS**		
956	MAT-01575	BMS-W.01	Supplying Aluminium anodised SectionsforDoors,partitions,windows,Ventilators(includingannodizationcost)	1Kg	**306**
957	MAT-01576	BMS-W.02	SunControlfilmtotheglazedwindowspartition includinglabourcharges.	1sqm	**313**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
958	MAT-01577	BMS-W.03	AluminiumVenetianBlindshorizontal 25.4mm widewith allaccessories.	1sqm	**798**
959	MAT-01578	BMS-W.04	AluminiumVenetianBlindshorizontal 20.0mm widewith allaccessories.	1sqm	**760**
960	MAT-01579	BMS-W.05	VenetianblindsVerticalblinds100mmwide withallaccessories.	1sqm	**1290**
961	MAT-01580	BMS-W.06	RubberBeading	1RM	**2**
962	MAT-01581	BMS-W.09	Chlorpyriphos/ Lindane emulsifiableconcentrate of20%	1Litre	**217**
963	MAT-01582	BMS-W.10	SoftBrush	Each	**141**
964	MAT-01583	BMS-W.11	WireBrush	Each	**31**
965	MAT-01584	BMS-W.12	Supplyingandfixing**aluminiumcompositecladdingwithskinmaterial0.25mmthickaluminiumsheet**covermaterialnatural polyethylene aluminium cladding panelfixedwithextrudedaluminiumbasisframe(50x25x1.5mm)anglecleats,weather sealants, rivets, GI brackets allasapproved,usingsuitableboltsonstructural steel work including necessaryaccessoriescompleteinallrespectsincludingallscaffoldingandlabourcharges etc., complete for finished itemof work but excluding cost of structuralsteel fabrication, if any, ACP Cladding**-3mmthk**	1 Sqm	**2189**
966	MAT-01585	BMS-W.13	Supplyingandfixing**aluminiumcompositecladdingwithskinmaterial0.25mmthickaluminiumsheet**covermaterialnatural polyethylene aluminium cladding panelfixedwithextrudedaluminiumbasisframe(50x25x1.5mm)anglecleats,weather sealants, rivets, GI brackets allasapproved,usingsuitableboltsonstructural steel work including necessaryaccessoriescompleteinallrespectsincludingallscaffoldingandlabourcharges etc., complete for finished itemof work but excluding cost of structuralsteel fabrication, if any, ACP Cladding**-4mmthk**	1 Sqm	**2387**
967	MAT-01586	BMS-W.14	Supplyingandfixing**aluminiumcompositecladdingwithskinmaterial0.5mmthickaluminiumsheet**covermaterialnaturalpolyethylene aluminium cladding panelfixedwithextrudedaluminiumbasisframe(50x25x1.5mm)anglecleats,	1 Sqm	**2678**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			weather sealants, rivets, GI brackets allasapproved,usingsuitableboltsonstructural steel work including necessaryaccessoriescompleteinallrespectsincludingallscaffoldingandlabourcharges etc., complete for finished itemof work but excluding cost of structuralsteel fabrication, if any, ACP Cladding**-4mmthk**		
968	MAT-01587	BMS-W.15	CEMENTJALI-25mmthick	1sqm	**198**
969	MAT-01588	BMS-W.16	CEMENTJALI-40mmthick	1sqm	**257**
970	MAT-01589	BMS-W.17	CEMENTJALI-50mmthick	1sqm	**353**
971	MAT-01590	BMS-W.18	Aluminiumsheet24Gauge	1 Sqm	**256**
972	MAT-01591	BMS-W.19	7.5mmthickAluminiumGrill(asapprovedbythedepartment)3.58Kg/Sqm.	1 Sqm	**941**
973	MAT-01592	BMS-W.20	Mastic pad2'0 "x4'0"(0.60M x 1.2M)of1"(25.4mm) thick	1 Sqm	**839**
974	MAT-01593	BMS-W.21	Mastic pad2'0 "x4'0"(0.60M x 1.2M)of1/2"(12.7mm)thick	1 Sqm	**481**
			Supplyofhotpressedcompressionmouldedsignplatesformakingroadsigns ass per the approved dimensionsof National Highway Authority Of India,complete, forfinished itemofwork.		
975	MAT-01594	BMS-W.22	CircularsignplateDia400mm.	Each.	**488**
976	MAT-01595	BMS-W.23	CircularsignplateDia600mm.	Each.	**1284**
977	MAT-01596	BMS-W.24	CircularsingplateDia870mm	Each.	**2574**
978	MAT-01597	BMS-W.25	Triangularsignplate600mm.	Each.	**659**
979	MAT-01598	BMS-W.26	Triangularsign plate900mm.	Each.	**1489**
980	MAT-01599	BMS-W.27	Squaresignplate600mm.	Each.	**1194**
981	MAT-01600	BMS-W.28	Squaresignplate1000mm.	Each.	**4433**
982	MAT-01601	BMS-W.29	**ITEMDELETED**		
			Design,fabrication&supplyoflightweightpreengineeredbuildingsforamaximum span of 9 metres with 50 x 50x 2.8 mm M.S hollow square tubes forcolumns,trusses&purlinswallswithsandwichpanelsmadeupof2Nos10mmthickcementbondedparticle/fibre boards with 25mm thick 12 kg/cumdensityexpandedpolystyreneinbetweenencasedin1.25mmthick24x7x26 mm 'W' tracks in bottom & topand'H'sectionforsideswithdoors,		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			windows & ventilators, roofing with 26gauge pre painted profiled sheets fixedwithselftapping/drillingscrews,painting withenamelpaintforsteelitems,OBDforinteriorsandaceforexteriors&providingbaseplates,templates & anchor bolts along with civilfoundation designs & drawings for thefinished itemofwork		
983	MAT-01602	BMS-W.30	SteelStructure:-Structureismadeupof 50x50X 2.8 mm/33x66x2.8mm thickhollowM.S.sectionsforTrusses,columns,andpurloins.-Columns	1RM	**363**
984	MAT-01603	BMS-W.33	Sandwichpanels:Sandwichpanelsof50 mm thick with 25 mm thermocol of 12kg / cum, fixed in between 2 Nos 10 mmcementbondedwoodparticle/fibreboards properly fixed together with 30mmx30mmx30mmwoodpiecesalongwidth& lengthwherevernecessary	1 Sqm	**1312**
985	MAT-01604	BMS-W.34	U' Tracks & 'H' Section:- Bottom & Top'U' Tracks are made of 1.25 mm thick120 GSM G.I. Sheet of size 24x51x26mmsize.	1RM	**141**
986	MAT-01605	BMS-W.35	Fabricated 'H' sections are made up of 2Nos 1.25 mm thick C.R. Of 40 mm widthforflangesand1Nosof 2mmthick C.R. of 50 mm width plate for web. willbeused	1RM	**204**
987	MAT-01606	BMS-W.36	Sandwich Panel joinery is made up ofcouplersorequivalentmadefrom0.6mm G.I. rollformedsection tohold2Nos of 10 mm board on both sides with25mm thermocolinbetween.	1RM	**233**
988	MAT-01607	BMS-W.37	Window:- windows are made up of 51x51 mm step 'U' section made from 1.25thickMSColdrolledSteelSheetandWindows Shutters & Grill are made of48x25mm mm size pre painted sectionwith4mmglasscompletewithnecessaryhardware.Grillsaremadefrom8mmsquarerodat100mmspacing.	1 Sqm	**4211**
989	MAT-01608	BMS-W.38	DoorFrames:-51X51Stepped'U'section made from 1.25 mm thick C.R.section with a 32 mm rebate for 30 mmflushdoorandDoorShutterswith30mm thick block board / flush doors withboilingwaterproofplywoodcompletewith necessaryHardware.	1 Sqm	**3838**
990	MAT-01609	BMS-W.39	Ventilators:-Ventilatorsaremadeof	1	**4294**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			51x51mmstep'U'sectionmadeFrom 1.25mmthickC.R.sheetwithfixedlouvers andglass.	Sqm	
991	MAT-01610	BMS-W.40	Painting:-1)Steelstructureistobepainted with 2 coats of Grade I enamelpaint.	1 Sqm	**114**
992	MAT-01611	BMS-W.41	2) Exterior walls arepainted with onecoast of primer and 2 coats of exterioremulsionpaint.	1 Sqm	**102**
993	MAT-01612	BMS-W.42	3)Interiorsarepaintedwith1+2coatofO.B. D.	1 Sqm	**85**
994	MAT-01613	BMS-W.43	Toilets:-Toiletsareprovidedasperplan with a provision for fixing the washbasin, W.C. etc only is made with M.S.steel section secured to the walls withtoilet bracket provision excluding cost ofWC/ Washbasinetc	Each	**998**
995	MAT-01614	BMS-W.44	Sunshades:-Sunshadeswillbeprovided wherever necessary with 300mmmorethanthewidthofwindow.25x25 mm angle frame to cover 450 mmin the front and the sides. 10mm cementbonded particle boardwillbe fixed onthe frame work and sealed with greenpasteorequivalent.	Each	**3364**
996	MAT-01615	BMS-W.45	Roofing: - Roofing will be provided with0.5mmthickgalvanized/prepainted G.I. profiled sheets fixed to the purlinswith14sizeselfdrillingscrewswithneoprene washer. Side laps are stitchedwith self tapping / drilling screws. Endlapsaretobesealedwith25x3mmButyl tape. The sheets are provided withanticapillarygrove.	1 Sqm	**760**
997	MAT-01617	BMS-W.47	Preparinggabionswithjunglewood	Each	**3**
998	MAT-01618	BMS-W.48	Plantingplants	Each	**2**
999	MAT-01619	BMS-W.49	Pruningplants	Each	**3**
1000	MAT-01620	BMS-W.50	Maintainingavenuesincludingfencing,weeding, mulching, watering etc perplant.	Each	**7.5**
1001	MAT-01621	BMS-W.51	-do- Whenscatteredinhotweatherwith extra conveyance from March toJune	Each	**8.5**
1002	MAT-01622	BMS-W.52	Hoistingorloweringofslab	1cum	**118**
1003	MAT-01623	BMS-W.53	Dressingfacesofgranitestone(doublelinedressing)	1 Sqm	**194**
1004	MAT-01624	BMS-W.54	Dressingfacesofotherthangranite	1	**121**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			stone(doublelinedressing)	Sqm	
1005	MAT-01625	BMS-W.55	Supply of Pre-painted GalvalumeTrapezoidal Profile Roofing sheets with0.50mm thickness, Coating: Alu-Zinccoating AZ150 GSM. Tensile Strength:550 MPA. Paint coating: RegularModified Polyester painting. PaintingThickness (Top): 18 to 20 Microns,(Bottom): 5 to 7 Microns. Sheet Width:1.020,Length:Maximum12Meters withRegularRangeColours	1 Sqm	**421**
1006	MAT-01626	BMS-W.56	Supply of Pre-painted GalvalumeTrapezoidal Profile Roofing sheets with0.47mm thickness, Coating: Alu-Zinccoating AZ150 GSM. Tensile Strength:550 MPA. Paint coating: RegularModified Polyester painting. PaintingThickness (Top): 18 to 20 Microns,(Bottom): 5 to 7 Microns. Sheet Width:1.020,Length:Maximum12Meters withRegularRangeColours	1 Sqm	**411**
1007	MAT-01627	BMS-W.57	Supply of Pre-painted GalvanizedTrapezoidal Profile Roofing sheets with0.50mmthickness,Coating:Zinccoating Z120 GSM. Tensile Strength:300 MPA. Paint coating: RegularModified Polyester painting. PaintingThickness (Top): 18 to 20 Microns,(Bottom): 5 to 7 Microns. Sheet Width:1.020,Length:Maximum12Meters withRegularRangeColours	1 Sqm	**370**
1008	MAT-01628	BMS-W.58	SupplyofPre-paintedGalvanizedTrapezoidal Profile Roofing sheets with0.47mmthickness,Coating:ZinccoatingZ120GSM.TensileStrength: 300MPA.Paintcoating:RegularModifiedPolyesterpainting.PaintingThickness(Top):18to20Microns,(Bottom): 5 to 7 Microns. Sheet Width:1.020, Length: Maximum 12 Meters withRegularRangeColours	1 Sqm	**347**
1009	MAT-01629	BMS-W.59	SupplyofRoofAccessoriesmediumsize: Ridge, Barge Cap, Corner Trim, L-Flashing, Down Pipes, Gutter etc., with0.50mmthick,Width:0.585,Length:Maximum 2½Meters	1RM	**283**
1010	MAT-01630	BMS-W.60	SupplyofRoofAccessoriesmediumsize: Ridge, Barge Cap, Corner Trim, L-Flashing, Down Pipes, Gutter etc., with0.47mmthick,Width:0.585,Length:Maximum 2½Meters	1RM	**253**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
1011	MAT-01631	BMS-W.61	75mmlong screws-	1 Each	**4**
1012	MAT-01632	BMS-W.62	G.Iscambolts&nuts	1 Each	**5**
1013	MAT-01633	BMS-W.63	G.Ibolts&nuts	1 Each	**5**
1014	MAT-01634	BMS-W.64	G.I'J'bolts8mmdia	1 Each	**10**
1015	MAT-01635	BMS-W.65	G.IWashers	1 Each	**2**
1016	MAT-01636	BMS-W.66	Limpetwashers(forscam&'J'bolts)	1 Each	**2**
1017	MAT-01637	BMS-W.67	Bitumenwashers	1 Each	**2**
1018	MAT-01638	BMS-W.68	WhiteCement (Rate as per Common SoR)	1Kg	**27.95**
1019	MAT-01639	BMS-W.69	MSZHoldfasts - 300mm long of40x40x 5mmISA	1 Each	**35**
1020	MAT-01640	BMS-W.70	Rubber/Nylondoorstopbushes	1 Each	**10**
1021	MAT-01641	BMS-W.71	Nylonrollersforslidingglasses/allumin ium windows	1 Each	**15**
1022	MAT-01642	BMS-W.72	Powdercoatingorcolourannodization-anysection	1RM	**49**
1023	MAT-01643	BMS-W.73	Continuous Piano Hinges PowdercoatedMildsteelasperIS-3818:1992ofnominalsize25mm(B)ofthicknes s 0.8to1.0mm	1RM	**35**
1024	MAT-01644	BMS-W.74	Boxhingesforcup boards	1 Each	**44**
1025	MAT-01645	BMS-W.75	MagneticCatchers	1 Each	**15**
1026	MAT-01646	BMS-W.76	Drillingholesinhardrocksurfacesupto18mmdia	1RM	**200**
1027	MAT-01647	BMS-W.77	Drillingholes inhardrockabove18mmdia	1RM	**278**
1028	MAT-01648	BMS-W.78	Makingholes upto18mmdiainRCC/anystonesupto50 mmthick	1 Each	**34**
1029	MAT-01649	BMS-W.79	MakingholesabovE18mmdiainRCC/anystones above50 mmthick	1 Each	**47**
1030	MAT-01650	BMS-W.80	Pressure grouting the drilled holes withneatcementslurryorwithapprovedepoxybo nding agentusingpump	1 Each	**48**
1031	MAT-01651	BMS-W.81	**ITEMDELETED**		
1032	MAT-01652	BMS-W.82	**ITEMDELETED**		

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			CASURINA BALLIES / STEELBARRICADING		
1033	LAB-00552	BMS-W.83	Fixing steel barricading with MS AngleIron Pegs and GI Pipes with nuts & boltsdulyexcavatingpitsanditsremovalafterthefunctionisoverincludingtransportingoftheentirebarricadingmaterials from the Divisional stores tothebarricadingsitedulyengaginglabour to load, transport and unload thematerials at barricading site & as per theschedulegivenbythedepartmentalauthoritiesandloadingbackintothetrucks,unloadingatDivisionalstores,accountingforthereceivedmaterials,labourforloading,unloading,fixing,handling etc, complete for finished itemofwork		
			2-TIER(3days)	1RM	**38.2**
		BMS-W.84	Providing barricading arrangement withcasurina ballies as per the design dulyexcavating pits and its removal after thefunction is over including hire charges ofthebarricadingmaterialsaspertheschedulegivenbythedepartmentalauthorities complete for finished item ofwork		
1034	LAB-00553	BMS-W.84.A	2-TIER(2days)	1RM	**47.6**
1035	LAB-00554	BMS-W.84.B	2-TIER(3days)	1RM	**47.8**
1036	LAB-00555	BMS-W.84.C	2-TIER(4days)	1RM	**48**
1037	LAB-00556	BMS-W.84.D	3-TIER(2days)	1RM	**49.75**
1038	LAB-00557	BMS-W.84.E	3-TIER(3days)	1RM	**50**
1039	LAB-00558	BMS-W.84.F	3-TIER(4days)	1RM	**50.5**
			Testingcharges		
		BMS-W.85	**CoarseAggregates**		
1040	LAB-00559	BMS-W.85.A	GradationTest	1No.	**627**
1041	LAB-00560	BMS-W.85.B.	AggregateImpactValueTest	1No.	**627**
1042	LAB-00561	BMS-W.85.C	FlakinessandElongationIndicesTests	1No.	**730**
1043	LAB-00562	BMS-W.85.D	WaterabsorptionTest	1No.	**575**
1044	LAB-00563	BMS-W.85.E	AbrasionTest	1No.	**890**
1045	LAB-00564	BMS-W.85.F	SpecificGravityTest	1No.	**627**
		BMS-W.86	**FineAggregates**		
1046	LAB-00565	BMS-W.86.A	SieveAnalysisTest	1No.	**627**
1047	LAB-00566	BMS-W.86.B	Bulking&Moisturecontent	1No.	**627**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
1048	LAB-00567	BMS-W.86.C	SpecificGravityTest	1No.	**627**
		BMS-W.87	**Cement**		
1049	LAB-00568	BMS-W.87.A	FinenessofcementTest	Each	**627**
1050	LAB-00569	BMS-W.87.B	Initial&Finalsettingtimeofcement	Each	**627**
		BMS-W.88	**Bricks**		
1051	LAB-00570	BMS-W.88.A	CompressivestrengthofBricks	Each	**365**
1052	LAB-00571	BMS-W.88.B	WaterabsorptionTestforBrick	Each	**575**
		BMS-W.89	**Concrete**		
1053	LAB-00572	BMS-W.89.A.	Compressivestrengthofconcretei.eCubestrengthtest	Each	**365**
1054	LAB-00573	BMS-W.89.B	Designmixofonegrade		**16720**
1055	LAB-00574	BMS-W.89.C	DesignmixofTwograde s		**27170**
1056	LAB-00575	BMS-W.89.D	Design mixofthree grades		**37620**
1057	LAB-00576	BMS-W.89.E	Designmixoffourgrades		**44935**
1058	LAB-00577	BMS-W.89.F	Designmixoffivegrades		**53295**
			Steel		
1059	LAB-00578	BMS-W.90	TensileStrengthofEachDia1set(3rods)	Each	**730**
		BMS-W.91	**Soils**		
1060	LAB-00579	BMS-W.91.A	G.S.BMixdesign	Each	**5225**
1061	LAB-00580	BMS-W.91.B	W.M.MMixdesign	Each	**6375**
1062	LAB-00581	BMS-W.91.C	B.MMixdesign	Each	**7840**
1063	LAB-00582	BMS-W.91.D	SDBC/BC	Each	**8465**
1064	LAB-00583	BMS-W.91.E	UDsamples	Each	**1880**
1065	LAB-00584	BMS-W.91.F	SoilsMDDandCBR	Each	**3865**
		Note:ItemBMS-W.46isremovedinthesectionWandisbroughtasnew itemintheSection NasBMT-N.82.			
		X.	**MACHINERY CHARGES, HIRECHARGESFOR CENTRING**		
1066	MAT-01653	BMC-X.01	Machinechargesofrubbing/polishingfloor	1day	**1900**
1067	HIR-00206	BMC-X.02	Power Saw Cutter - Hand Operated - Hirecharges	1Hr	**110**
1068	HIR-00207	BMC-X.03	PowerDrill-HandOperated-HireCharges	1Hr	**103**
1069	MAT-01656	BMC-X.04	GrindingMortar(SplGrinding)	1day	**950**
1070	MAT-01657	BMC-X.05	Casuarina Balli Props - 3" to 4" dia - 12'-0"Height	Each	**65**
1071	MAT-01658	BMC-X.06	CasuarinaBalliProps-4"to8"dia-20'-	Each	**107**

S.No	CFMScode	ItemCode	Descriptionofitem	Unit	BasicRate forSoR 2021-22 (Rs.)
1		2	3	4	5
			0"Height		
1072	MAT-01659	BMC-X.07	WallPlateBrackets/beambottomsupports	Each	**190**
1073	MAT-01660	BMC-X.08	WedgePlatefixture	Each	**10**
1074	MAT-01661	BMC-X.09	Runnerbeamsofapproximately 4"x4"size	RM	**378**
1075	MAT-01662	BMC-X.10	SteelPlatesforformworks	1 Sqm	**1430**
1076	MAT-01663	BMC-X.11	ScaffoldingPipes&Centeringaccessories	1Kg	**107**
1077	MAT-01664	BMC-X.12	ScaffoldBoards-Bambooscaffolds-Bamboos - 8'0" long	Each	**116**
1078	MAT-01665	BMC-X.13	Hire charges for stationary Concretepump conforming to IS 21573 Part-1:2006todeliverthefreshgreenconcrete	1Hr	**305**
1079	MAT-01666	BMC-X.14	ConcretedeliverypipesconformingtoIS15947PartI:2012tobeconnectedtothe pump to delivery point (150 mmDiameter)hirechargesper10RM	1Hr	**4**
		Y SECTION	**POST TENSIONING WORKS**		
1080	MAT-08749	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	**1,900**
1081	MAT-08750	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	**50**
1082	MAT-08751	BMC-Y.03	Supply of HDPE grout hose with flanges for bonded post tensioning work as per IS 1343 : 2012	1 RM	**30**
1083	MAT-08752	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	**1,90,000**

			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.,		

1 All the items to be used on the works shall be of first quality & ISI marked wherever possible and as approved,workmanshipshallbeasapprovedbytheEngineer-In-chargeofthework.
2 SupplyRatesforallthematerialsarebasedonmarketratesexcludingGST.
3 SSRRatesforBuildingitemsarepurelyfortheguidanceoftheofficersinpreparationofestimatesvidepara.113ofAPPWDcode. Authority who prepares the estimate is however responsible for proper rates as envisaged in para.45 of APPWDcode.

LEGEND:

"BMT"-X.XX,

"BMM"-X.XX,

"BMS"-X.XX,

"BMC"-X.XX

XXX- "A".XX-DenotestheSection

XXX-X."01"-DenotestheSerialNumberoftheIteminthecorrespondingSection

Sl	NAMEOFTHESTRUCTURALMEMBER	Material Hirecharges		Labouc harges		Centring Charges for2019-20		Unit ofMeasurement
1	2	3		4		5		6
	HIRE CHARGES FOR CENTERING AND SCAFFOLDING							
A	FOOTINGS	Rs.	**301**	Rs.	**672**	Rs.	**973**	per1cum
B	BEDBLOCKS,BANDS	Rs.	**67**	Rs.	**363**	Rs.	**430**	per1cum
C	PEDESTALS	Rs.	**343**	Rs.	**1069**	Rs.	**1412**	per1cum
D	PLINTHBEAMS	Rs.	**1453**	Rs.	**1620**	Rs.	**3073**	per1cum
	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**	per1cum
F	CHAJJAS-SUNSHADES	Rs.	**243**	Rs.	**264**	Rs.	**507**	per1sqm
G	COLUMNS	Rs.	**371**	Rs.	**2415**	Rs.	**2786**	per1cum
H	BEAMS	Rs.	**2179**	Rs.	**2027**	Rs.	**4206**	per1cum
I	SLABS- Up to150mmthick	Rs.	**247**	Rs.	**241**	Rs.	**488**	per1sqm
J	SLABS -above150mm - Upto300mmthick	Rs.	**254**	Rs.	**248**	Rs.	**502**	per1sqm
K	SLABS-above 300mmthick	Rs.	**265**	Rs.	**260**	Rs.	**525**	per1sqm
L	WAFFLE-(GRID)SLABS(RibBeamswithSlabs)	Rs.	**897**	Rs.	**834**	Rs.	**1731**	per1sqm
M	PERGOLASLABS(OnlyRibBeams)	Rs.	**629**	Rs.	**585**	Rs.	**1214**	per1sqm
N	ARCHBEAMS-upto1.5MSpan	Rs.	**2477**	Rs.	**2304**	Rs.	**4781**	per1cum
O	ARCHBEAMS-above1.5MSpan	Rs.	**2512**	Rs.	**2336**	Rs.	**4848**	per1cum
P	DOMESLABS	Rs.	**4005**	Rs.	**3723**	Rs.	**7728**	per1cum
Q	HELICALSTAIRCASES	Rs.	**305**	Rs.	**284**	Rs.	**589**	per1sqm
Q	SHEAR WALLS, RCC WALLS, WATER TANK WALLS	Rs.	**472**	Rs.	**510**	Rs.	**982**	per1sqm

	HIRECHARGESFORCENTERING &SCAFFOLDING -UnsupportedHeightupto3.66MCasurinaBallies, Bamboos,WoodenReapers,Runners,WoodPosts,WallPlatesetc.,							
E	LINTELS	Rs.	**826**	Rs.	**1332**	Rs.	**2158**	per1cum
F	CHAJJAS-SUNSHADES	Rs.	**163**	Rs.	**204**	Rs.	**367**	per1sqm
G	COLUMNS	Rs.	**249**	Rs.	**1871**	Rs.	**2120**	per1cum
H	BEAMS	Rs.	**1458**	Rs.	**1569**	Rs.	**3027**	per1cum
I	SLABS- Up to150mmthick	Rs.	**165**	Rs.	**186**	Rs.	**351**	per1sqm
J	SLABS -above150mm - Upto300mmthick	Rs.	**170**	Rs.	**193**	Rs.	**363**	per1sqm
K	SLABS-above 300mmthick	Rs.	**178**	Rs.	**201**	Rs.	**379**	per1sqm
L	WAFFLE-(GRID)SLABS(RibBeamswith Slabs)	Rs.	**601**	Rs.	**646**	Rs.	**1247**	per1sqm
M	PERGOLASLABS(OnlyRibBeams)	Rs.	**421**	Rs.	**453**	Rs.	**874**	per1sqm
N	ARCHBEAMS-upto1.5MSpan	Rs.	**1657**	Rs.	**1784**	Rs.	**3441**	per1cum
O	ARCHBEAMS-above1.5MSpan	Rs.	**1681**	Rs.	**1808**	Rs.	**3489**	per1cum
P	DOMESLABS	Rs.	**2681**	Rs.	**2884**	Rs.	**5565**	per1cum
Q	HELICALSTAIRCASES	Rs.	**205**	Rs.	**220**	Rs.	**425**	per1sqm

Sl	NAMEOFTHESTRUCTURALMEMBER	Material Hirecharges		Labourcharges		Centring Charges for2018-19		Unit ofMeasurement
1	2	3		4		5		6
	HIRE CHARGES FOR ACCESS SCAFFOLDING - upto 3.66 M using Casurina Ballies, Bamboos, Wooden Reapers,Runners,WoodPosts,WallPlatesetc.,forBRICK MASONRY/STONEMASONRY-1sqm(WallArea)							
A	1st-Floor	Rs.	**10.78**	Rs.	**84.62**	Rs.	95.40	per1sqm
B	2nd-Floor	Rs.	**10.78**	Rs.	**121.18**	Rs.	131.96	per1sqm
C	3rd-Floor	Rs.	**10.78**	Rs.	**157.72**	Rs.	168.50	per1sqm
D	4th-Floor	Rs.	**10.78**	Rs.	**194.27**	Rs.	205.05	per1sqm
E	5th-Floor	Rs.	**10.78**	Rs.	**230.81**	Rs.	241.59	per1sqm
F	6th-Floor	Rs.	**10.78**	Rs.	**267.35**	Rs.	278.13	per1sqm
G	7th-Floor	Rs.	**10.78**	Rs.	**303.88**	Rs.	314.66	per1sqm
H	8th-Floor	Rs.	**10.78**	Rs.	**340.43**	Rs.	351.21	per1sqm
I	9th-Floor	Rs.	**10.78**	Rs.	**376.98**	Rs.	387.76	per1sqm
J	10th-Floor	Rs.	**10.78**	Rs.	**413.51**	Rs.	424.29	per1sqm
K	11th-Floor	Rs.	**10.78**	Rs.	**450.06**	Rs.	460.84	per1sqm
L	12th-Floor	Rs.	**10.78**	Rs.	**486.61**	Rs.	497.39	per1sqm

M	13th-Floor	Rs.	**10.78**	Rs.	**523.15**	Rs.	533.93	per1sqm
N	14th-Floor	Rs.	**10.78**	Rs.	**559.68**	Rs.	570.46	per1sqm
O	15th-Floor	Rs.	**10.78**	Rs.	**596.23**	Rs.	607.01	per1sqm

HIRE CHARGES FOR ACCESS SCAFFOLDING - upto 3.66 M using Casurina Ballies, Bamboos, Wooden Reapers, Runners,WoodPosts,WallPlatesetc.,forPLASTERINGtoWALLS-1sqm

SI	NAMEOFTHESTRUCTURALMEMBER	MaterialHire charges		Labour charges		Centring Chargesfor 2018-19		Unitof Measurement
1	2	3		4		5		6
A	1st-Floor	Rs.	**1.08**	Rs.	**8.47**	Rs.	**9.55**	per1sqm
B	2nd-Floor	Rs.	**1.08**	Rs.	**12.12**	Rs.	**13.20**	per1sqm
C	3rd-Floor	Rs.	**1.08**	Rs.	**15.77**	Rs.	**16.85**	per1sqm
D	4th-Floor	Rs.	**1.08**	Rs.	**19.43**	Rs.	**20.51**	per1sqm
E	5th-Floor	Rs.	**1.08**	Rs.	**23.08**	Rs.	**24.16**	per1sqm
F	6th-Floor	Rs.	**1.08**	Rs.	**26.73**	Rs.	**27.81**	per1sqm
G	7th-Floor	Rs.	**1.08**	Rs.	**30.38**	Rs.	**31.46**	per1sqm
H	8th-Floor	Rs.	**1.08**	Rs.	**34.05**	Rs.	**35.13**	per1sqm
I	9th-Floor	Rs.	**1.08**	Rs.	**37.70**	Rs.	**38.78**	per1sqm
J	10th-Floor	Rs.	**1.08**	Rs.	**41.35**	Rs.	**42.43**	per1sqm
K	11th-Floor	Rs.	**1.08**	Rs.	**45.01**	Rs.	**46.09**	per1sqm
L	12th-Floor	Rs.	**1.08**	Rs.	**48.66**	Rs.	**49.74**	per1sqm
M	13th-Floor	Rs.	**1.08**	Rs.	**52.31**	Rs.	**53.39**	per1sqm
N	14th-Floor	Rs.	**1.08**	Rs.	**55.97**	Rs.	**57.05**	per1sqm
O	15th-Floor	Rs.	**1.08**	Rs.	**59.62**	Rs.	**60.70**	per1sqm

HIRECHARGESFORSTAGESCAFFOLDING-upto3.66MusingCasurinaBallies, Bamboos,WoodenReapers,Runners,WoodPosts,WallPlatesetc.,forCEILINGPLASTERING-1sqm								
A	1st-Floor	Rs.	**2.57**	Rs.	**16.94**	Rs.	**19.51**	per1sqm
B	2nd-Floor	Rs.	**2.57**	Rs.	**24.04**	Rs.	**26.61**	per1sqm
C	3rd-Floor	Rs.	**2.57**	Rs.	**31.13**	Rs.	**33.70**	per1sqm
D	4th-Floor	Rs.	**2.57**	Rs.	**38.23**	Rs.	**40.80**	per1sqm
E	5th-Floor	Rs.	**2.57**	Rs.	**45.33**	Rs.	**47.90**	per1sqm
F	6th-Floor	Rs.	**2.57**	Rs.	**52.42**	Rs.	**54.99**	per1sqm
G	7th-Floor	Rs.	**2.57**	Rs.	**59.52**	Rs.	**62.09**	per1sqm
H	8th-Floor	Rs.	**2.57**	Rs.	**66.62**	Rs.	**69.19**	per1sqm
I	9th-Floor	Rs.	**2.57**	Rs.	**73.72**	Rs.	**76.29**	per1sqm
J	10th-Floor	Rs.	**2.57**	Rs.	**80.81**	Rs.	**83.38**	per1sqm
K	11th-Floor	Rs.	**2.57**	Rs.	**87.91**	Rs.	**90.48**	per1sqm
L	12th-Floor	Rs.	**2.57**	Rs.	**95.01**	Rs.	**97.58**	per1sqm
M	13th-Floor	Rs.	**2.57**	Rs.	**102.03**	Rs.	**104.60**	per1sqm
N	14th-Floor	Rs.	**2.57**	Rs.	**109.19**	Rs.	**111.76**	per1sqm
O	15th-Floor	Rs.	**2.57**	Rs.	**116.30**	Rs.	**118.87**	per1sqm

CENTERING&SCAFFOLDING CHARGES-FLOORWISERATES forSteelscaffoldingpipes,jackProps,SteelCenteringPlates,etc.,forunsupported height3.66M																
FLOOR		LINTELS	CHAJJAS-SUNSHADES	COLUMNS	BEAMS	SLABS-Upto150 mmthick	SLABS-above150mm - Up to 300 mmthick	SLABS-above300 mmthick	WAFFLE-(GRID)SLABS (Rib BeamswithSlabs)	PERGOA SLAB (Only RibBeams	S)	ARCH BEAMS - up to 1.5 MSpan	ARCH BEAMS -above 1.5 MSpan	DOME SLABS	HELICAL STAIR-CASES	SHEAR WALLS, RCC WALLS, WATER TANK WALLS
Material Hirefor anyFloor	H	**1233**	**243**	**371**	**2179**	**247**	**254**	**265**	**897**	**629**		**2477**	**2512**	**4005**	**305**	**472**
LabourCharges for1st Floor	**L**	**1720**	**264**	**2415**	**2027**	**241**	**248**	**260**	**834**	**585**		**2304**	**2336**	**3723**	**284**	**510**
Total HireCharges(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&scaffoldingcharges forsteelscaffoldingwithpipes,jack props,steelcentringplatesforunsupportedheightsofevery610mmheightabove3.66M,maybeallowedat16.666%more thanthe basicmaterialhirechargesand relevantlabour chargesofthe applicablefloorand item																

CENTERING&SCAFFOLDING CHARGES-FLOORWISERATES forCasurinaBallies,Bamboos,WoodenReapers,Runners,WoodPosts,WallPlates,SteelCentringPlatesetc.,forunsupported height3.66M														
FLOOR		LINTELS	CHAJJAS-SUNSHADES	COLUMNS	BEAMS	SLABS-Upto150 mmthick	SLABS-above 150mm - Upto300 mmthick	SLABS-above 300 mmthick	WAFFLE-(GRID)SLABS (RibBeams with Slabs)	PERGOLASLABS (Only RibBeams)	ARCHBEAMS -upto 1.5M Span	ARCH BEAMS -above 1.5 MSpan	DOME SLABS	HELICALS TAIRCASES
Material Hire foranyFloor	H	**826**	**163**	**249**	**1458**	**165**	**170**	**178**	**601**	**421**	**1657**	**1681**	**2681**	**501**
Labour Chargesfor1st Floor	L	**1332**	**204**	**1871**	**1569**	**186**	**193**	**201**	**646**	**453**	**1784**	**1808**	**2884**	**220**
Total HireCharges (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 orrelevant International StandardsshallbeusedinallCIVIL,WaterSupply&SanitaryFittings, ElectricalandElectro-MechanicalWorks.

2) Concerneddepartmentsshallapprovethematerialseitherfromthe manufacturer or from its authorized /certified dealer only andalsoto approve the brands of the products / materialsto beadopted in their estimates at their end.In case common approvalis required by the committee, concerned authority shall proposewith all the details after thorough verification, to the committee forconsidering theproposal.

3) SoR rates forCiviland Water supply & Sanitary items are purelyforguidanceoftheofficersinpreparationofestimatesvidepara 113ofAPPWDCode.Authoritywhopreparestheestimateis,howeve rresponsible for proper rates as envisaged in Para 45 ofAPPWDCode.

4) The rates published in the Buildings SoR 2021-22 are theceilingratesonlyandtheestimatepreparingauthoritiesarerespon sible for the correctness and reasonableness of the ratesand technicalspecificationsadoptedintheestimates.

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

NOTE :

This 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 these 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**
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, SUNHEARRT CERAMIK
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, SUNHEARRT CERAMIK
III	SUB-SECTION	CERAMIC WALL TILES - Somany, H & R Johnson, Kajaria, Sphinx, Orient Bell, AGL, Hindware, RicasilCermaics Exxaro, Cera, Varmora, Vitero, Ambani, SUNHEARRT CERAMIK
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 Marbostik for fixing Marble stones, SUNHEARRT CERAMIK
V	SUB-SECTION	GLASS MOSAIC TILES – Bisazza * Palladio * Expansive acqua reactive water barrier grouting system – NCL Tile grout
VI	SUB-SECTION	WALL CLADDING TILES - Somany, H & R Johnson, Kajaria, Sphinx, Orient Bell, Hindware, Cera, SUNHEARRT CERAMIK
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
II	SUB-SECTION	CEMENT CONRETE FLOOR TILES (PLAIN & CHEQUERED) - Super Decorative, Aditya Designer, Maha Bhima, Tricon, Pheonix, Eurocon, Ultra, Sphinx
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, BMI Monier
IV	SUB-SECTION	VINYL FLOORING - Marblex, Amstrong
		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 Marbostik for fixing Marble stones * Cement based Polymer modified jointing mortar – NCL Masonry glue * Cement based Polymer modified plastering mortar – NCL Render
		GLASS FIBRE REINFORCED CONCRETE TILES-ABC GRC Tiles
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

Sl. No	SECTION	NAMES OF THE RECOMMENDED BRAND/ MANUFACTURER/ SUPPLIER
		Abloy, M/s DEC Industries Pvt Ltd
H	**SECTION**	**CONSTRUCTION CHEMICALS AND ADMIXTURES**
I	SUB-SECTION	**REPAIRING & TREATMENT WORKS**
		Armstrong / Fosroc ,PMCC, Asian LeakShield, M/S DEC Industries PVT LTD.
II	SUB-SECTION	**INTEGRAL WATER PROOFING COMPOUNDS**
	TBSC-Q.II-01	Armstrong Chemicals Pvt Ltd Bengaluru , Fosroc Chemicals India Pvt Ltd Bengaluru, Zoriproof No.1 of Protect More construction, PIDILITE INDUSTRIES LIMITED,Sunanda Speciality Coatings Pvt Ltd, Asian Paints, M/S DEC Industries PVT LTD.
III	SUB-SECTION	**PLASTICIZERS**
		Armstrong Chemicals Pvt Ltd, Bengaluru, Fosroc Chemicals India Pvt Ltd, Bengaluru, Zoriplax of Protect More Construction chemicals, Hyderabad * BONDTUF CONSTRUCTION CHEMICALS , Sunanda Speciality Coatings Pvt Ltd , Asian Paints, M/S DEC Industries PVT LTD.
IV	SUB-SECTION	**GROUTS**
		Armstrong Chemicals Pvt Ltd, Bengaluru, Fosroc Chemicals India Pvt Ltd, Bengaluru, Protect More Construction Chemicals (Yield 0.5 Ltrs / 1 Kg Pack), M/S DEC Industries PVT LTD.
V	SUB-SECTION	**BONDING AGENTS/ ADHESIVES**
		Armstrong Chemicals Pvt Ltd Bengaluru, Fosroc Chemical India Pvt Ltd Bengaluru, Protect More Construction Chemicals. M/S DEC Industries PVT LTD.
VIII	SUB-SECTION	**ANTI-CORROSIVE AGENTS**
		Armstrong Chemicals Pvt Ltd Bengaluru , Fosroc Chemicals India Pvt Ltd Bengaluru, Protect More Construction Chemicals.(40 SFT Per Ltr / Coat) * CLEAN TECH CORROSION , Protect More Construction Chemicals Hyderabad, M/S DEC Industries PVT LTD.
I	**SECTION**	**GLASS MATERIALS** - Modifloat, Asahi, Saint-Gobain, Binani, HNG.
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
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
L	**SECTION**	**PLYWOODS, LAMINATES & VENEERS** - Kitply, Century Ply, National Ply, Bhutan 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
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

Sl. No	SECTION	NAMES OF THE RECOMMENDED BRAND/ MANUFACTURER/ SUPPLIER
	SUB-SECTION	**UPVC DOORS AND WINDOWS :** Sintex, NCL Veka, Fenesta, LG, ,Eumax by EUREKA Window systems pvt.ltd,, Sudhakar profile systems, REHAU
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
Q	**SECTION**	**STRUCTURAL GLAZING & CURTAIN WALLING** - NCL Buildtek, NCL-Bison, Elixir, Sintex, Elgi, Oasis, Polywood, Sintex, NCL-Wintech, Fenesta, LG, Rehau, Arpitha, , Galwin Techno Fab industries Pvt.Ltd
R	**SECTION**	**MISCELLANEOUS ITEMS**
		(a) Sintex, Aquatech for PVC 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

WATERSUPPLY
&
SANITARYITEMS

WATERSUPPLY&SANITARYITEMS

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(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-1pipes of ISI make conforming to ISI 651 & 4127 with airtightcementjointsinCM1.5:1prop.Includingexcavationoftrenches and socket pits in any soil (except rock requiringblasting)upto1524mm(5'0")depthandrefillingwithwatering andtamping.	1RM	**396**
2	MAT-01668	BMW-A.02	Supplying, laying, jointing and testing 101.6 mm SWG SP-1pipes of ISI make conforming to ISI 651 & 4127 with airtightcementjointsinCM1:5:1prop.includingexcavationoftrenches and socket pits in any soil (except rock requiringblasting)upto914.4mm(3'0")depthandrefillingwithwatering andtamping.	1RM	**394**
3	MAT-01669	BMW-A.03	Supplying, laying, jointing and testing 152.4 mm SWG SP-1pipes of ISI make conforming to ISI 651 & 4127 with airtightcementjointsinCM1.5:1prop.includingexcavationoftrenches and socket pits in any soil (except rock requiringblasting)upto1524mm(5'0")depthandrefillingwithwatering andtamping.	1RM	**586**
4	MAT-01670	BMW-A.04	Supplying, laying, jointing and testing 152.4 mm SWG SP-1pipes of ISI make conforming to ISI 651 & 4127 with airtightcementjointsinCM1.5:1prop.includingexcavationoftrenches and socket pits in any soil (except rock requiringblasting)upto914.4mm(3'0"))depthandrefillingwithwatering andtamping.	1RM	**576**
5	LAB-00411	BMW-A.05	labour charges only for laying, jointing and testing SWGpipesofanydiawithairtightcementjointsincludingexcavationoftrenchesandsocketpitsinanysoilupto 914.4 mm (3'0") depth (except rock requiring blasting) andrefillingwithwateringandtamping.	1RM	**246**
6	LAB-00412	BMW-A.06	labour charges only for laying, jointing and testing SWGpipesofanydiawithairtightcementjointsincludingexcavationoftrenches andsocket pitsinanysoilupto1524mm(5'-0")depth(exceptrockrequiringblasting)andrefillingwithwateringandtamping.	1RM	**305**
7	MAT-01671	BMW-A.07	a)Supplying, laying, jointing and testing 152.4 mmCC bed1:2:4Prop:using19.05mmgaugegradedgranitemetalchips and cradling 101.6 mm SWG pipe line all round tohave76.2mmthick coveroverthesockets.	1RM	**215**
8	LAB-00413	BMW-A.08	b)-do-labourchargesonly	1RM	**10.5**
9	MAT-01672	BMW-A.09	a)Supplying , laying, jointing and testing 152.4 mmCC bed1:2:4Prop:using19.05mmgaugegradedgranitemetalchips and cradling 152.4 mm SWG pipe line all round tohave76.2mmthick coveroverthesockets.	1RM	**298**
10	LAB-00414	BMW-A.10	b)-do-labourchargesonly	1RM	**52**
11	MAT-01673	BMW-A.11	a)Supplying&Laying101.6mmSWGchannelswithcement mortar joints with suitable brick masonry for fixingthechannels inposition	1RM	**83**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
12	LAB-00150	BMW-A.12	b)-do-labourchargesonly	1RM	**39**
13	MAT-01674	BMW-A.13	a)Supplying&Laying152.4mmSWGchannelswithcement mortar joints with suitable brick masonry for fixingthechannels inposition	1RM	**153**
14	LAB-00151	BMW-A.14	b)-do-labourchargesonly	1RM	**54**
15	MAT-01675	BMW-A.15	SupplyofSWGSP-1PipeconformingtoISI651-4"dia(101.6mm)	1RM	**159**
16	MAT-01676	BMW-A.16	SupplyofSWGSP-1PipeconformingtoISI651-6"dia(152.4mm)	1RM	**277**
17	MAT-01677	BMW-A.17	SupplyofSWGSP-1PipeconformingtoISI651-8"dia(203.2mm)	1RM	**427**
18	MAT-01678	BMW-A.18	SupplyofSWGSP-1PipeconformingtoISI651-10"dia(254mm)	1RM	**782**
19	MAT-01679	BMW-A.19	SupplyofSWGSP-1PipeconformingtoISI651-12"dia(300mm)	1RM	**1127**
20	MAT-01680	BMW-A.20	SupplyofSWGSP-1PipeconformingtoISI651-14"dia(350mm)	1RM	**1534**
21	MAT-01681	BMW-A.21	SupplyofSWGSP-1PipeconformingtoISI651-16"dia(400mm)	1RM	**1849**
22	MAT-01682	BMW-A.22	SupplyofSWGSP-1PipeconformingtoISI651-18"dia(450mm)	1RM	**2233**
23	MAT-01683	BMW-A.23	SupplyofSWGSP-2PipeconformingtoISI651-4"dia(101.6mm)	1RM	**197**
24	MAT-01684	BMW-A.24	SupplyofSWGSP-2PipeconformingtoISI651-6"dia(152.4mm)	1RM	**292**
25	MAT-01685	BMW-A.25	SupplyofSWGSP-2PipeconformingtoISI651-8"dia(203.2mm)	1RM	**527**
26	MAT-01686	BMW-A.26	SupplyofSWGSP-2PipeconformingtoISI651-10"dia(254mm)	1RM	**829**
27	MAT-01687	BMW-A.27	SupplyofSWGSP-2PipeconformingtoISI651-12"dia(300mm)	1RM	**1273**
28	MAT-01688	BMW-A.28	SupplyofSWGSP-2PipeconformingtoISI651-14"dia(350mm)	1RM	**1650**
29	MAT-01689	BMW-A.29	SupplyofSWGSP-2PipeconformingtoISI651-16"dia(400mm)	1RM	**1901**
30	MAT-01690	BMW-A.30	SupplyofSWGSP-2PipeconformingtoISI651-18"dia(450mm)	1RM	**2426**
31	MAT-01691	BMW-A.31	SupplyofSWGSP-3PipeconformingtoISI651-4"dia(101.6mm)	1RM	**251**
32	MAT-01692	BMW-A.32	SupplyofSWGSP-3PipeconformingtoISI651-6"dia(152.4mm)	1RM	**365**
33	MAT-01693	BMW-A.33	SupplyofSWGSP-3PipeconformingtoISI651-8"dia(203.2mm)	1RM	**646**
34	MAT-01694	BMW-A.34	SupplyofSWGSP-3PipeconformingtoISI651-10"dia(254mm)	1RM	**982**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
35	MAT-01695	BMW-A.35	SupplyofSWGSP-3PipeconformingtoISI651-12"dia(300mm)	1RM	**1372**
36	MAT-01696	BMW-A.36	SupplyofSWGSP-3PipeconformingtoISI651-14"dia(350mm)	1RM	**1742**
37	MAT-01697	BMW-A.37	SupplyofSWGSP-2PipeconformingtoISI651-16"dia(400mm)	1RM	**2005**
38	MAT-01698	BMW-A.38	SupplyofSWGSP-3PipeconformingtoISI651-18"dia(450mm)	1RM	**2728**
39	MAT-01699	BMW-A.39	SupplyofSWGBendsconformingtoISstandards-100mmdia	Each	**80**
40	MAT-01700	BMW-A.40	SupplyofSWGBendsconformingtoISstandards-150mmdia	Each	**148**
41	MAT-01701	BMW-A.41	SupplyofSWGBendsconformingtoISstandards-200mmdia	Each	**279**
42	MAT-01702	BMW-A.42	SupplyofSWGBendsconformingtoISstandards-250mmdia	Each	**566**
43	MAT-01703	BMW-A.43	SupplyofSWGBendsconformingtoISstandards-300mmdia	Each	**719**
44	MAT-01704	BMW-A.44	SupplyofSWGBendsconformingtoISstandards-350mmdia	Each	**898**
45	MAT-01705	BMW-A.45	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for- 100x100	Each	**154**
46	MAT-01706	BMW-A.46	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for- 150x100	Each	**227**
47	MAT-01707	BMW-A.47	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for- 150x150	Each	**248**
48	MAT-01708	BMW-A.48	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for-200x 100	Each	**353**
49	MAT-01709	BMW-A.49	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for- 200x150	Each	**412**
50	MAT-01710	BMW-A.50	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for- 200x200	Each	**473**
51	MAT-01711	BMW-A.51	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for- 250x100	Each	**555**
52	MAT-01712	BMW-A.52	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for- 250x150	Each	**733**
53	MAT-01713	BMW-A.53	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for- 250x200	Each	**908**
54	MAT-01714	BMW-A.54	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for- 250x250	Each	**1087**
55	MAT-01715	BMW-A.55	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for- 300x100	Each	**792**
56	MAT-01716	BMW-A.56	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for- 300x150	Each	**1015**
57	MAT-01717	BMW-A.57	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswithl engthof barrel60cm for-300x 200	Each	**1237**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
58	MAT-01718	BMW-A.58	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for- 300x250	Each	**1460**
59	MAT-01719	BMW-A.59	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for- 300x300	Each	**1683**
60	MAT-01720	BMW-A.60	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for- 350x100	Each	**989**
61	MAT-01721	BMW-A.61	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for- 350x150	Each	**1268**
62	MAT-01722	BMW-A.62	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for- 350x200	Each	**1546**
63	MAT-01723	BMW-A.63	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for- 350x250	Each	**1822**
64	MAT-01724	BMW-A.64	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for- 350x300	Each	**2102**
65	MAT-01725	BMW-A.65	SupplyofSWGJunctions(T's&Y's)conformingtoISstandardswith lengthof barrel60cm for- 350x350	Each	**2378**
66	MAT-01726	BMW-A.66	SupplyofSWGPlugsconformingtoISstandardsfor100mmdia	Each	**29**
67	MAT-01727	BMW-A.67	SupplyofSWGPlugsconformingtoISstandardsfor150mmdia	Each	**55**
68	MAT-01728	BMW-A.68	SupplyofSWGPlugsconformingtoISstandardsfor200mmdia	Each	**106**
69	MAT-01729	BMW-A.69	SupplyofSWGPlugsconformingtoISstandardsfor250mmdia	Each	**183**
70	MAT-01730	BMW-A.70	SupplyofSWGPlugsconformingtoISstandardsfor300mmdia	Each	**290**
71	MAT-01731	BMW-A.71	SupplyofSWGPlugsconformingtoISstandardsfor350mmdia	Each	**364**
72	MAT-01732	BMW-A.72	Supplying&fixing150mmx100mmSWGgullytrapsconforming to ISI 651 & 4127 with C.I Grating & Cost.Brick masonry in CM 1:6 prop. Intermediate chamber andfittedwith304.8mmx288.6mm(12"x9")C.IFrameandhinge dcover	Each	**508**
73	MAT-01733	BMW-A.73	SupplyofSWGGullyTraps(Round&Square)conformingtoISstandards150x 100mm	Each	**229**
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 perstandard practice	Each	**32**
75	MAT-01734	BMW-A.75	SupplyofSWGSaddlesconformingtoISstandards150x100 mm	Each	**162**
76	MAT-01735	BMW-A.76	SupplyofSWGSaddlesconformingtoISstandards200x100 mm	Each	**279**
77	MAT-01736	BMW-A.77	SupplyofSWGSaddlesconformingtoISstandards250x100 mm	Each	**451**
		B	**MAN HOLES & INSPECTION CHAMBERS -AS PER - IS4111 : Part 1: 1986**		

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
78	MAT-05233	BMW-B.01	Constructing904.0mm(3'0")diasolidblockmasonryinspectionchamberasperIS-4111:Part-1:1986withcement mortar (1:6) prop usingfly-ash blocks of 225 mmthickfromapprovedsourcehavingaminimumcrushingstrengthof10N/sq.mmincludingplasteringwithcementmortar 1:3 prop; ½" thick both inside and outside fitted with20"diaRCCmanholecoversandframesincludingexcavating pits up to a depth of 904 mm (3'-0") in all sorts ofsoils (excluding rock) and laying cement concrete(1:4:8)150 mm thick using 40 mm HBG Metal and P.C.C. 1:2:4benchingandchannel100mmthickasperStandardspecification andincludingcostandconveyanceofallmaterialslikecement,sand,bricks,wateretc.,tosite,costof seigniorage charges on all materials and all incidentalandoperational, labour charges like mixing cement mortar,constructing masonry, lift charges, curing etc., complete forfinished itemofwork asperStandardspecification.	Each	**5970**
79	MAT-05234	BMW-B.02	Constructing904.0mm(3'0")diasolidblockmasonryinspectionchamberasperIS-4111:Part-1:1986withcement mortar (1:6) prop usingfly-ash blocks of 225 mmthickfromapprovedsourcehavingaminimumcrushingstrengthof10N/sq.mmincludingplasteringwithcementmortar 1:3 prop; ½" thick both inside and outside fitted with20"diaRCCmanholecoversandframesincludingexcavating pits up to a depth of 1524 mm (5'-0") in all sortsof soils (excluding rock) and laying cement concrete (1:4:8)150 mm thick using 40 mm HBG Metal and P.C.C. 1:2:4benchingandchannel100mmthickasperStandardspecification andincludingcostandconveyanceofallmaterialslikecement,sand,bricks,wateretc.,tosite,costof seigniorage charges on all materials and all incidentalandoperational, labour charges like mixing cement mortar,constructing masonry, lift charges, curing etc., complete forfinished itemofwork asperStandardspecification.	Each	**9395**
80	MAT-05235	BMW-B.03	Constructing 904.0 mm (3'0") dia brick masonry inspectionchamber as per IS - 4111: Part-1:1986 with cement mortar(1:6) prop using 2nd Class Clay Bricks of 225 mm thick fromapproved source having a minimum crushing strength of 5N/sq.mmincludingplasteringwithcementmortar1:3prop; ½" thick both inside and outside fitted with 20" dia RCCmanholecoversandframesincludingexcavatingpitsuptoa depth of 904 mm (3'-0") in all sortsof soils (excludingrock)andlayingcementconcrete(1:4:8)150mmthick using 40 mm HBG Metal and P.C.C. 1:2:4 benching andchannel100mmthickasperStandardspecificationandincluding costandconveyanceofallmaterialslikecement, sand, bricks, water etc., to site, cost of seignioragecharges on all materials and all incidental andoperational,labourchargeslikemixingcementmortar,constructingmasonry, lift charges, curing etc., complete for finished itemofwork as perStandardspecification.	Each	**5783**
81	MAT-05236	BMW-B.04	Constructing 904.0 mm (3'0") dia brick masonry inspectionchamber as per IS - 4111: Part-1:1986 with cement mortar(1:6) prop using 2nd Class Clay Bricks of 225 mm thick fromapproved source having a minimum crushing strength of 5N/sq.mmincludingplasteringwithcementmortar1:3prop;	Each	**9033**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
			½" thick both inside and outside fitted with 20" dia RCCmanholecoversandframesincludingexcavatingpitsuptoa depth of 1524 mm (5'-0") in all sorts of soils (excludingrock)andlayingcementconcrete(1:4:8)150mmthick using 40 mm HBG Metal and P.C.C. 1:2:4 benching andchannel100mmthickasperStandardspecificationandinclu dingcostandconveyanceofallmaterialslikecement, sand, bricks, water etc., to site, cost of seignioragecharges on all materials and all incidental andoperational,labourchargeslikemixingcementmortar,const ructingmasonry, lift charges, curing etc., complete for finished itemofwork as perStandardspecification.		
82	MAT-01737	BMW-B.05	Constructing 914.4 mm x 457.2 mm (3'0"x1'6") brick in CM1:6prop.MasonryInspectionchamberupto914.4mm(3'0") and fitted with light weight 914.4 mm x 457.2 mm(3'0"x1'6")C.Iframeandcoverof40Kg.	Each	**5630**
83	MAT-01738	BMW-B.06	Constructing 457.2 mm x 457.2 mm (1'6"x1'6") brick in CM1:6 prop.Masonry. Inspection chamber upto914.4 mm(3'0") and fitted with light weight 457.2 mm x 457.2 mm(1'6"x1'6")C.Iframeandcoverof20Kg.	Each	**3393**
84	MAT-01739	BMW-B.07	a)Makingdrainageconnectionintheexistinginspectionincludingal lrepairs	Each	**112**
85	LAB-00157	BMW-B.08	b)-do-labourchargesonly	Each	**75**
		C	C.I. PIPES & FITTINGS -AS PER - IS 1729:1979 (MaterialsshallbeprocuredfromthelistofapprovedBrands/Man ufacturers/Suppliers)		
			Supplying and fixing of C.I. Single/ Double Socket soil pipesISI marked conforming to IS:1729-1979 of reputed makewithcementcaulkedjointsandfixingaspersiterequirement s including painting black with Japan paint andfixing with necessary wooden blocks fixed in the masonrywalls 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 (76.2mm)Single Socket	1RM	**711**
87	MAT-01741	BMW-C.02	4"dia(101.6mm)SingleSocket	1RM	**922**
88	MAT-01742	BMW-C.03	6"dia(152.4mm)SingleSocket	1RM	**1455**
89	MAT-01743	BMW-C.04	3"dia (76.2mm)DoubleSocket	1RM	**773**
90	MAT-01744	BMW-C.05	4"dia(101.6mm)DoubleSocket	1RM	**1021**
91	MAT-01745	BMW-C.06	6"dia(152.4mm)DoubleSocket	1RM	**1669**
92	LAB-00158	BMW-C.07	Labour charges only forfixing of C.I. Single/ Double Socketsoil pipes of any dia with cement caulked joints and fixing asper site requirements including painting black with Japanpaint and fixing with necessary wooden blocks fixed in themasonry walls in cement mortar and including fixing of M.S.clampsifnecessary withrequirednails	1RM	**241**
93	MAT-01746	BMW-C.08	Supplying & fixing CIPlain bends Ist quality ISI markedconforming to IS:1729-1979 with cement caulked joints andfixing as per site requirements with standard practice for3"dia(76.2mm)	Each	**275**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
94	MAT-01747	BMW-C.09	Supplying & fixing CIPlain bends Ist quality ISI markedconforming to IS:1729-1979 with cement caulked joints andfixing as per site requirements with standard practice for4"dia(101.6mm)	Each	**345**
95	MAT-01748	BMW-C.10	Supplying & fixing CIPlain bends Ist quality ISI markedconforming to IS:1729-1979 with cement caulked joints andfixing as per site requirements with standard practice for6"dia(152.4mm)	Each	**565**
96	MAT-01749	BMW-C.11	Supplying&fixingCIPlug(Door)bendsIstqualityISImarked conforming to IS:1729-1979 with cement caulkedjointsandfixingaspersiterequirementswithstandardpr acticefor3" dia(76.2mm)	Each	**337**
97	MAT-01750	BMW-C.12	Supplying&fixingCIPlug(Door)bendsIstqualityISImarked conforming to IS:1729-1979 with cement caulkedjointsandfixingaspersiterequirementswithstandardpr acticefor4" dia(101.6mm)	Each	**415**
98	MAT-01751	BMW-C.13	Supplying&fixingCIPlug(Door)bendsIstqualityISImarked conforming to IS:1729-1979 with cement caulkedjointsandfixingaspersiterequirementswithstandardpr acticefor6" dia(152.4mm)	Each	**894**
99	LAB-00159	BMW-C.14	Labour charges only for fixing CI Plain/ Plug (Door) bendswithcementcaulkedjointsandfixingaspersiterequireme ntswithstandardpractice	Each	**76**
100	MAT-01752	BMW-C.15	Supplying and fixing of 76.2 mm (3") CI soil single junctionwith plug : conforming to IS:1729-1979 with cement caulkedjointsandfixing	Each	**427**
101	MAT-01753	BMW-C.16	Supplying and fixing of 101.6 mm (4") CI soil single junctionwith plug : conforming to IS:1729-1979 with cement caulkedjointsandfixing	Each	**658**
102	MAT-01754	BMW-C.17	Supplying and fixing of 152.4 mm (6") CI soil single junctionwith plug : conforming to IS:1729-1979 with cement caulkedjointsandfixing	Each	**1537**
103	MAT-01755	BMW-C.18	Supplying and fixing of 76.2 mm (3") CI soil plain singlejunction : conforming to IS:1729-1979 with cement caulkedjointsandfixing	Each	**361**
104	MAT-01756	BMW-C.19	Supplying and fixing of 101.6 mm (4") CI soil plain singlejunction : conforming to IS:1729-1979 with cement caulkedjointsandfixing	Each	**487**
105	MAT-01757	BMW-C.20	Supplying and fixing of 152.4 mm (6") CI soil plain singlejunction : conforming to IS:1729-1979 with cement caulkedjointsandfixing	Each	**1149**
106	LAB-00160	BMW-C.21	LabourchargesonlyfixingCIsoilsinglejunctionswithcement caulked joints and fixing as per site requirementswithstandardpractice	Each	**107**
107	MAT-01758	BMW-C.22	Supplying and Fixing of 76.2 mm (3") CI soil Double junctionwith plug : conforming to IS:1729-1979 with cement caulkedjointsandfixing	Each	**640**
108	MAT-01759	BMW-C.23	SupplyingandFixingof101.6mm(4")CIsoilDoublejunction with plug : conforming to IS:1729-1979 with cementcaulkedjoints andfixing	Each	**774**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
109	MAT-01760	BMW-C.24	SupplyingandFixingof152.4mm(6")CIsoilDoublejunction with plug : conforming to IS:1729-1979 with cementcaulkedjoints andfixing	Each	**1789**
110	MAT-01761	BMW-C.25	Supplying and Fixing of 76.2 mm (3") CI soil plain Doublejunction : conforming to IS:1729-1979 with cement caulkedjointsandfixing	Each	**555**
111	MAT-01762	BMW-C.26	Supplying and Fixing of 101.6 mm (4") CI soil plain Doublejunction : conforming to IS:1729-1979 with cement caulkedjointsandfixing	Each	**724**
112	MAT-01763	BMW-C.27	Supplying and Fixing of 152.4 mm (6") CI soil plain Doublejunction : conforming to IS:1729-1979 with cement caulkedjointsandfixing	Each	**1677**
113	LAB-00161	BMW-C.28	LabourchargesonlyfixingCIsoilDoublejunctionswithcement caulked joints and fixing as per site requirementswithstandardpractice	Each	**107**
114	MAT-01764	BMW-C.29	SupplyingandFixingof75mmC.I.OffsetsIstqualityconforming to IS:1729-1979 with cement caulked joints andfixing-for76.20mm(3") C.I.Pipe	Each	**271**
115	MAT-01765	BMW-C.30	SupplyingandFixingof75mmC.I.OffsetsIstqualityconforming to IS:1729-1979 with cement caulked joints andfixing-for101.6mm(4") C.I.Pipe	Each	**377**
116	MAT-01766	BMW-C.31	SupplyingandFixingof75mmC.I.OffsetsIstqualityconforming to IS:1729-1979 with cement caulked joints andfixing-for152.4mm(6") C.I.Pipe	Each	**813**
117	MAT-01767	BMW-C.32	SupplyingandFixingof115mmC.I.OffsetsIstqualityconforming to IS:1729-1979 with cement caulked joints andfixing-for76.20mm(3")C.I.Pipe	Each	**322**
118	MAT-01768	BMW-C.33	SupplyingandFixingof115mmC.I.OffsetsIstqualityconforming to IS:1729-1979 with cement caulked joints andfixing-for101.6mm(4")C.I.Pipe	Each	**425**
119	MAT-01769	BMW-C.34	SupplyingandFixingof115mmC.I.OffsetsIstqualityconforming to IS:1729-1979 with cement caulked joints andfixing-for152.4mm(6")C.I.Pipe	Each	**833**
120	MAT-01770	BMW-C.35	SupplyingandFixingof150mmC.I.OffsetsIstqualityconforming to IS:1729-1979 with cement caulked joints andfixingfor76.20mm(3") C.I.Pipe	Each	**371**
121	MAT-01771	BMW-C.36	SupplyingandFixingof150mmC.I.OffsetsIstqualityconforming to IS:1729-1979 with cement caulked joints andfixingfor101.6mm(4") C.I.Pipe	Each	**478**
122	MAT-01772	BMW-C.37	SupplyingandFixingof150mmC.I.OffsetsIstqualityconforming to IS:1729-1979 with cement caulked joints andfixingfor152.4mm(6") C.I.Pipe	Each	**967**
123	LAB-00162	BMW-C.38	LabourchargesonlyfixingCIsoilOffsetswithcementcaulkedjoin tsandfixingaspersiterequirementswithstandard practice	Each	**48**
124	MAT-01773	BMW-C.39	Supplying&fixingCIfloortraps1stqualityISImarkedconformingt o IS:1729-1979 with C.P. Grating fixing withwhitecementaspersiterequirementswithstandardpractice for nominal dia 75 mm (3") and grating size 165 mmdia ofweightnot less than5.5Kgs	Each	**487**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
125	MAT-01774	BMW-C.40	Supplying&fixingCIfloortraps1stqualityISImarkedwith C.P.Gratingfixingwithwhitecementaspersiterequirements with standard practicefornominal dia 100 mm(4") and grating size 100 mm dia of weight not less than 6Kgs	Each	**595**
126	MAT-01775	BMW-C.41	Supplying&fixingCIfloortraps1stqualityISImarkedconformingt o IS:1729-1979 with C.P. Grating fixing withwhitecementaspersiterequirementswithstandardpractice for nominal dia 75 mm (3") and grating size 100 mmdia ofweightnot less than4.0Kgs	Each	**302**
127	LAB-00163	BMW-C.42	LabourchargesonlyforfixingCINahany/Floortrapswith C.P.Gratingfixingwithwhitecementaspersiterequirementswithst andardpractice	Each	**53**
128	MAT-01776	BMW-C.43	BoxingofNahanytrapsinRCCfloors	Each	**168**
129	MAT-01777	BMW-C.44	BoxingofW.CTrap inR.C.Cfloors	Each	**337**
130	MAT-01778	BMW-C.45	Supplying & fixing CI Collars (double socket) Ist quality ISImarked conforming to IS:1729-1979 with cement caulkedjointsandfixingaspersiterequirementswithstandardpr acticefor76.20mm(3")C.I.Pipe	Each	**160**
131	MAT-01779	BMW-C.46	Supplying & fixing CI Collars (double socket) Ist quality ISImarked conforming to IS:1729-1979 with cement caulkedjointsandfixingaspersiterequirementswithstandardpr acticefor101.6mm(4")C.I.Pipe	Each	**201**
132	MAT-01780	BMW-C.47	Supplying & fixing CI Collars (double socket) Ist quality ISImarked conforming to IS:1729-1979 with cement caulkedjointsandfixingaspersiterequirementswithstandardpr acticefor152.4mm(6")C.I.Pipe	Each	**578**
		D	VITREOUSCHINAWARE-SANITARYAPPLIANCESas per IS:2556–1974 (Materialsshallbeprocured from the listofapproved Brands/Manufacturers/Suppliers)		
133	MAT-01781	BMW-D.01	Supplying&FixingIndianpatternwhiteglazedW.C1stqualityISI markedconformingtoIS:2556-Part-3-1981with"P"or"S" trap:580 mmLong	Each	**979**
134	MAT-01782	BMW-D.02	Supplying&FixingIndianpatternwhiteglazedW.C1stqualityISI markedconformingtoIS:2556-Part-3-1981with"P"or"S" trap:630 mmLong	Each	**979**
135	LAB-00164	BMW-D.03	LabourchargesonlyforfixingIndianpatternW.Cwith"P"or"S"tra p	Each	**320**
136	MAT-01783	BMW-D.04	Supplying & Fixing Orissa Pan white glazed W.C 1st qualityISI marked conforming toIS:2556-Part-3-1981with"P" or"S"trap:580mmx 440mm	Each	**1466**
137	MAT-01784	BMW-D.05	Supplying & Fixing Orissa Pan white glazed W.C 1st qualityISI marked conforming toIS:2556-Part-3-1981with"P" or"S"trap:630mmx 450mm	Each	**1537**
138	LAB-00165	BMW-D.06	LabourchargesonlyFixingOrissapanW.Cwith"P"or"S"trap	Each	**400**
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 thickeach foot rest 1st quality ISI marked conforming to IS:2556-Part-10:1974	Pair	**225**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
140	LAB-00166	BMW-D.08	Labourchargesonlyforfixingporcelainfootrestforsquatting I.W.C.(Rectangularpair)	Pair	**73**
141	MAT-01786	BMW-D.09	ProvidingBrickmasonryseatforOrissapan/IndianW.C.using 2nd class bricksas perstandardpractice	Each	**289**
142	MAT-01787	BMW-D.10	ProvidingCementConcreteSquattingplateforOrissapan/India n W.C. in P.C.C.1:2:4 asperstandard practice	Each	**86**
143	MAT-01788	BMW-D.11	Supplying&Fixinglowdownporcelainflushingtank10LitCapacit ywith internalcomponents	Each	**2333**
144	LAB-00167	BMW-D.12	Labourchargesonlyforfixinglowdownporcelainflushingtankwit hinternalcomponents	Each	**560**
145	MAT-01789	BMW-D.13	Supplying and Fixing European Water Closet of 1st qualityconformingtoIS:2556-Part-2-1973ofwhiteglazedwith'P'trap	Each	**1870**
146	MAT-01790	BMW-D.14	Supplying and Fixing European Water Closet of 1st qualityconformingtoIS:2556-Part-2-1973ofwhiteglazedwith'S'trap	Each	**1785**
147	LAB-00168	BMW-D.15	LabourchargesonlyforfixingEuropeanWaterClosetwith'P'or 'S'trapasperstandardpractice	Each	**280**
148	MAT-01791	BMW-D.16	SupplyingandFixingbestIndianmakeplasticseatandlidfor European water closets with rubber or plastic Buffers asperIS2548-1996	Each	**803**
149	LAB-00169	BMW-D.17	LabourchargesonlyforfixingplasticseatandlidforEuropean watercloset	Each	**81**
150	MAT-01792	BMW-D.18	Supply, Installation and commissioning approved make floormounted Close coupled EWC suitCASCADE model 'P' or'S'trapwithdualflushporcelaincisternfixedonEWCwithall internal parts of dual flush cistern, ultra solid seatcoverof approvedmake with rubber buffer and cap 15 mm anglestopcock450mmlongPVCinterconnectionpipewallflang es all of approved make etc. complete for finished itemofwork inallrespects:WhiteColour	Each	**8656**
151	MAT-01793	BMW-D.19	Supply, Installation and commissioning approved make floormountedClosecoupledEWCsuitCASCADEmodel'P'or'S't rapwithdualflushporcelaincisternfixedonEWCwithall internal parts of dual flush cistern, ultra solid seatcoverof approvedmake with rubber buffer and cap 15 mm anglestopcock450mmlongPVCinterconnectionpipewallflang es all of approved make etc. complete for finished itemofworkinallrespects:Coloured-Grade- I/Grade- II	Each	**12622**
152	MAT-01794	BMW-D.20	Supply, Installation and commissioning approved make floormounted close coupled EWC suit CASCADE model 'P' or 'S'trap with dual flush porcelain cistern fixed on EWC with allinternal parts of dual flush cistern, ultra solid seat cover ofapprovedmake with rubber bufferand cap 15 mm anglestopcock450mmlongPVCinterconnectionpipewallflang es all of approved make etc. complete for finished itemofworkinallrespects:SpecialColour-Grade-III	Each	**16062**
153	MAT-01795	BMW-D.21	Supplying&FixingIndianmakeFlatBackWashHandBasin1stqu alityconformingtoIS:2556-Part-4:1972withwastefittingslikerubberplug,chain,32mmnominalsi ze C.P.FittingwithparallelpipethreadconformingtoIS:2963-	Each	**2468**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
			1979 and fitted with 15 mm nominal bore Chromium PlatedPillarTapof1stqualityIndianmake400gramsSeiko/Senior/ Nice/ Esso or equivalent complete with standard CIbracketsincludingwoodenblock:660x460mm-Single C.P.Pillarcock		
154	MAT-01796	BMW-D.22	Supplying&FixingIndianmakeFlatBackWashHandBasin1stqualityconformingtoIS:2556-Part-4:1972withwastefittingslikerubberplug,chain,32mmnominalsize C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium PlatedPillarTapof1stqualityIndianmake400gramsSeiko/Senior/ Nice/ Esso or equivalent complete with standard CIbracketsincludingwoodenblock:630x450mm-Single C.P.Pillarcock	Each	**2191**
155	MAT-01797	BMW-D.23	Supplying&FixingIndianmakeFlatBackWashHandBasin1stqualityconformingtoIS:2556-Part-4:1972withwastefittingslikerubberplug,chain,32mmnominalsize C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium PlatedPillarTapof1stqualityIndianmake400gramsSeiko/Senior/ Nice/ Esso or equivalent complete with standard CIbracketsincludingwoodenblock:630x450mm-Double C.P.Pillarcock	Each	**2673**
156	MAT-01798	BMW-D.24	Supplying&FixingIndianmakeFlatBackWashHandBasin1stqualityconformingtoIS:2556-Part-4:1972withwastefittingslikerubberplug,chain,32mmnominalsize C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium PlatedPillarTapof1stqualityIndianmake400gramsSeiko/Senior/ Nice/ Esso or equivalent complete with standard CIbracketsincludingwoodenblock:550x400mm-Single C.P.Pillarcock	Each	**1641**
157	MAT-01799	BMW-D.25	Supplying&FixingIndianmakeFlatBackWashHandBasin1stqualityconformingtoIS:2556-Part-4:1972withwastefittingslikerubberplug,chain,32mmnominalsize C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium PlatedPillarTapof1stqualityIndianmake400gramsSeiko/Senior/ Nice/ Esso or equivalent complete with standard CIbracketsincludingwoodenblock:550x400mm-Double C.P.Pillarcock	Each	**1985**
158	MAT-01800	BMW-D.26	Supplying&FixingIndianmakeFlatBackWashHandBasin1stqualityconformingtoIS:2556-Part-4:1972withwastefittingslikerubberplug,chain,32mmnominalsize C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium PlatedPillarTapof1stqualityIndianmake400gramsSeiko/Senior/ Nice/ Esso or equivalent complete with standard CIbracketsincludingwoodenblock:450x300mm-Single C.P.Pillarcock	Each	**1436**
159	MAT-01801	BMW-D.27	Supplying&FixingIndianmakeFlatBackWashHandBasin1stqualityconformingtoIS:2556-Part-4:1972withwastefittingslikerubberplug,chain,32mmnominalsize C.P.Fittingwithparallelpipethreadconformingto IS:2963-	Each	**1849**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
			1979 and fitted with 15 mm nominal bore Chromium PlatedPillarTapof1stqualityIndianmake400gramsSeiko/Senior/ Nice/ Esso or equivalent complete with standard CIbracketsincludingwoodenblock:450x300mm-Double C.P.Pillarcock		
160	LAB-00170	BMW-D.28	Labour charges only for fixing Indian makeFlat Back WashHandBasinwithwastefittingslikerubberplug,chain,32mmnominal size C.P. Fitting Pillar Taps complete with standardCIbrackets includingwoodenblock	Each	**338**
161	MAT-01802	BMW-D.29	SupplyingandFixingPedestalforWashHandBasin(H.S.W/Parry/Earthenware)	Each	**1136**
162	LAB-00171	BMW-D.30	Labourcharges onlyforfixingpedestalforwashhand basin	Each	**144**
163	MAT-01803	BMW-D.31	Supplying&Fixing31.75mmC.Pbottletrap(Heavytype)Parrywareorequivalent	Each	**409**
164	LAB-00172	BMW-D.32	Labourchargesonlyforfixingbottletraptothewashhandbasin	Each	**48**
165	MAT-01804	BMW-D.33	Supplying&FixingwhiteglazedflatbackBowlurinalsofsize 440 mm x 265 mm x 315 mm with internal flushing rimfixedwithscrewscompleteIndianmakeconformingtoIS:2556-1995	Each	**849**
166	MAT-01805	BMW-D.34	Supplying& Fixing whiteglazed flat backhalfstallurinals1st quality conforming to IS:2556-1995 with standard C.P.Spreader of overall size 95 x 95 x 57 mm conforming toIS:2556-Part6,Sec-6-1974fixedwithscrewscompleteIndian make:410x265x305mm	Each	**2499**
167	MAT-01806	BMW-D.35	Supplying& Fixing whiteglazed flat backhalfstallurinals1st quality conforming to IS:2556-1995 with standard C.P.Spreader of overall size 95 x 95 x 57 mm conforming toIS:2556-Part6,Sec-6-1974fixedwithscrewscompleteIndian make:590x375x390mm	Each	**2774**
168	LAB-00173	BMW-D.36	LabourchargesonlyFixingflatbackBowl/Halfstallurinalswith fixingC.P.Spreaderandscrewscomplete	Each	**135**
169	MAT-01807	BMW-D.37	Supplying & Fixing Indian make white glazed vitreous chinaporcelainsinkconformingtoIS:2556-Part-5-1994oncantileverbracketswithwastefittingslikerubberplug,chain,32mmnominalsizeC.P.Fittingwithparallelpipethreadconformingto IS:2963-1979: 600x400 x250	Each	**4526**
170	MAT-01808	BMW-D.38	Supplying & Fixing Indian make white glazed vitreous chinaporcelainsinkconformingtoIS:2556-Part-5-1994oncantileverbracketswithwastefittingslikerubberplug,chain,32mmnominalsizeC.P.Fittingwithparallelpipethreadconformingto IS:2963-1979: 750x450 x250	Each	**5077**
171	LAB-00174	BMW-D.39	Labour charges only for fixing Vitreous china porcelain sinkswith waste fittings, rubber plug, chain, cantilever bracketsetc.	Each	**338**
172	MAT-01809	BMW-D.40	a) S & F 609.6 x 457.2 x 254 mmRCC terrazzo finishedsink(or constructed at sitewith 50.8mmthick) brass plugandchainincludingCIcantileverbrackets	Each	**738**
173	LAB-00175	BMW-D.41	b)-do-labourchargesonly	Each	**239**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
		E	TAPS&FAUCETS(Materialsshallbeprocuredfromthelistofapproved Brands/Manufacturers/Suppliers)		
174	MAT-01810	BMW-E.01	a)S &F12.7 mmNPstop cockIndianmakeheavyduty	Each	**425**
175	LAB-00176	BMW-E.02	b)-do-labourchargesonly	Each	**31**
176	MAT-01811	BMW-E.03	a)S&Fconcealedstopcock12.7mm(1/2")IndianMakeheavyduty	Each	**487**
177	LAB-00177	BMW-E.04	b)-do-labourchargesonly	Each	**46**
178	MAT-01812	BMW-E.05	a)S&Fanglestopcock12.7mmdiafirstqualityIndianMakeheavyduty	Each	**428**
179	LAB-00178	BMW-E.06	b)-do-labourchargesonly	Each	**46**
180	MAT-01813	BMW-E.07	a)S&F12.7mmN.Pbibtap(Long body) Indianmakeheavydutys	Each	**366**
181	LAB-00179	BMW-E.08	b)-do-labourchargesonly	Each	**31**
182	MAT-01814	BMW-E.09	a)S&F 12.7mmN.Pbibtap(Short body) Indian makeheavyduty	Each	**234**
183	LAB-00180	BMW-E.10	b)-do-labourchargesonly	Each	**31**
184	MAT-01815	BMW-E.11	a)S&F31.75mmbrassplumberUnionbestIndianfirstquality	Each	**64**
185	LAB-00181	BMW-E.12	b)-do-labourchargesonly	Each	**15**
186	MAT-01816	BMW-E.13	a)S &F12.7 mmbrassstopcock(Long body) Indian makeheavyduty	Each	**210**
187	LAB-00182	BMW-E.14	b)-do-labourchargesonly	Each	**31**
188	MAT-01817	BMW-E.15	a)S &F12.7 mmbrassstopcock (Short body)Indian makeheavyduty	Each	**185**
189	LAB-00183	BMW-E.16	b)-do-labourchargesonly	Each	**31**
190	MAT-01818	BMW-E.17	a)S &F12.7mmbrassbib cock (Long body)Indianmakeheavyduty	Each	**210**
191	LAB-00184	BMW-E.18	b)-do-labourchargesonly	Each	**31**
192	MAT-01819	BMW-E.19	a)S &F12.7mm brassbib cock(Short body) Indianmakeheavyduty	Each	**185**
193	LAB-00185	BMW-E.20	b)-do-labourchargesonly	Each	**31**
194	MAT-01820	BMW-E.21	S&FCPLongbodybibcockfancytypedeluxeheavyduty 12.7mmdiaIndianmake	Each	**573**
195	MAT-01821	BMW-E.22	S&FCPShortbodybibcockfancytypedeluxeheavyduty 12.7mmdiaIndianmake	Each	**550**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
196	MAT-01822	BMW-E.23	S&F12.7mmheavydutydiahighneckpillarcock1stqualityIndian make	Each	**1042**
197	MAT-01823	BMW-E.24	a)S&F12.7mmheavydutyNPSwan NeckPillarcock	Each	**1042**
198	LAB-00186	BMW-E.25	b)-do-labourchargesonly	Each	**43**
199	MAT-01824	BMW-E.26	a)S&F12.7mmheavydutyNPSinkcock	Each	**1040**
200	LAB-00187	BMW-E.27	b)-do-labourchargesonly	Each	**37**
201	MAT-01825	BMW-E.28	S&F12.7mmdiaNPpillarcockheavydutyIstqualityIndian make	Each	**547**
202	MAT-01826	BMW-E.29	S&F 12.7mmdiaNPpush cockIstquality	Each	**245**
203	MAT-01827	BMW-E.30	S&F 12.7mmdiaNPliftcockIstquality	Each	**215**
204	MAT-01828	BMW-E.31	a)S&F38.1mmC.PwastecouplingHalforFullThread1stQualityIndianmakeParrywareorequivalent	Each	**215**
205	LAB-00188	BMW-E.32	b)-do-labourchargesonly	Each	**31**
206	MAT-01829	BMW-E.33	a)S &F31.75 mm PVCbottletrap	Each	**131**
207	LAB-00189	BMW-E.34	b)-do-labourchargesonly	Each	**31**
208	MAT-01830	BMW-E.35	a)S&F38.1mmbrassplumberunion	Each	**64**
209	LAB-00190	BMW-E.36	b)-do-labourchargesonly	Each	**15**
210	MAT-01831	BMW-E.37	a)S&F19.05mmheavydutyNPstopcockIndianmakewith ISImark	Each	**547**
211	LAB-00191	BMW-E.38	b)-do-labourchargesonly	Each	**31**
		F	G.I.PIPES&FITTINGS(MaterialsshallbeprocuredfromthelistofapprovedBrands/Manufacturers/ Suppliers)		
212	MAT-01832	BMW-F.01	S&FGIunion 12.7mmIst Quality	Each	**40**
213	MAT-01833	BMW-F.02	S&FGIunion 19.05mmIst Quality	Each	**48**
214	MAT-01834	BMW-F.03	S&FGIunion 25.4mmIst Quality	Each	**73**
215	MAT-01835	BMW-F.04	S&FGIunion31.75 mmIst Quality	Each	**90**
216	MAT-01836	BMW-F.05	S&FGIunion 38.1mmIst Quality	Each	**108**
217	MAT-01837	BMW-F.06	S&FGIunion 50.8mmIst Quality	Each	**134**
218	MAT-01838	BMW-F.07	S&FGI connector25.4mmdia	Each	**80**
219	MAT-01839	BMW-F.08	S&F12.7mmGI'T'A classIstquality	Each	**49**
220	MAT-01840	BMW-F.09	S&F31.75mmdiaGI bendIstquality	Each	**73**
221	MAT-01841	BMW-F.10	S&F31.75mm dia GI'T'1stQuality	Each	**72**
222	MAT-01842	BMW-F.11	a) S & F25.4mm copperballcockith PVCballIndianmakeISImark	Each	**423**
223	LAB-00192	BMW-F.12	b)-do-labourchargesonly	Each	**47**
224	MAT-01843	BMW-F.13	a)S&F19.05mm copperballcockithPVCball IndianmakeISImark	Each	**347**
225	LAB-00193	BMW-F.14	b)-do-labourchargesonly	Each	**43**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
226	MAT-01844	BMW-F.15	a)S&F12.7mmcopperballcockithPVCballIndianmakeISImark	Each	**228**
227	LAB-00194	BMW-F.16	b)-do-labourchargesonly	Each	**47**
228	MAT-01845	BMW-F.17	a)S&FGunmetalGate(GMpeet)valveasperIS-778Class - I,Indian makeheavytype-25mmNBSize	Each	**1101**
229	LAB-00195	BMW-F.18	b)-do-labourchargesonly	Each	**47**
230	MAT-01846	BMW-F.19	a)S&FGunmetalGate(GMpeet)valveasperIS-778Class - I,Indian makeheavytype-20mmNBSize	Each	**768**
231	LAB-00196	BMW-F.20	b)-do-labourchargesonly	Each	**47**
232	MAT-01847	BMW-F.21	a)S&FGunmetalGate(GMpeet)valveasperIS-778Class - I,Indian makeheavytype-15mmNBSize	Each	**571**
233	LAB-00197	BMW-F.22	b)-do-labourchargesonly	Each	**47**
234	MAT-01848	BMW-F.23	a)S&FGunmetalGate(GMpeet)valveasperIS-778Class - I,Indian makeheavytype-32mmNBSize	Each	**1671**
235	LAB-00198	BMW-F.24	b)-do-labourchargesonly	Each	**41**
236	MAT-01849	BMW-F.25	a)S&FGunmetalGate(GMpeet)valveasperIS-778Class - I,Indian makeheavytype-40mmNBSize	Each	**2258**
237	LAB-00199	BMW-F.26	b)-do-labourchargesonly	Each	**71**
238	MAT-01850	BMW-F.27	a)S&FGunmetalGate(GMpeet)valveasperIS-778Class - I,Indian makeheavytype-50mmNBSize	Each	**3306**
239	LAB-00200	BMW-F.28	b)-do-labourchargesonly	Each	**95**
240	MAT-01851	BMW-F.29	a)S&FGunmetalGate(GMpeet)valveasperIS-778Class - I,Indian makeheavytype-65mmNBSize	Each	**5102**
241	LAB-00201	BMW-F.30	b)-do-labourchargesonly	Each	**5160**
242	MAT-01852	BMW-F.31	a)S&FGunmetalGate(GMpeet)valveasperIS-778Class - I,Indian makeheavytype-80mmNBSize	Each	**7557**
243	LAB-00202	BMW-F.32	b)-do-labourchargesonly	Each	**141**
244	MAT-01853	BMW-F.33	a) Supplying & fixing Gunmetal (GM) Horizontal Check (Nonreturn) Valve as per IS-778 I-class heavy duty - 15 mm NBSize	Each	**425**
245	LAB-00203	BMW-F.34	b)-do-labourchargesonly	Each	**59**
246	MAT-01854	BMW-F.35	a) Supplying & fixing Gunmetal (GM) Horizontal Check (Nonreturn) Valve as per IS-778 I-class heavy duty - 25 mm NBSize	Each	**963**
247	LAB-00204	BMW-F.36	b)-do-labourchargesonly	Each	**71**
248	MAT-01855	BMW-F.37	a) Supplying & fixing Gunmetal (GM) Horizontal Check (Nonreturn) Valve as per IS-778 I-class heavy duty - 40 mm NBSize	Each	**1956**
249	LAB-00205	BMW-F.38	b)-do-labourchargesonly	Each	**119**
250	MAT-01856	BMW-F.39	a) Supplying & fixing Gunmetal (GM) Horizontal Check (Nonreturn) Valve as per IS-778 I-class heavy duty - 50 mm NBSize	Each	**2670**
251	LAB-00206	BMW-F.40	b)-do-labourchargesonly	Each	**119**
252	MAT-01857	BMW-F.41	a) Supplying & fixing Gunmetal(GM)HorizontalCheck(Non	Each	**617**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
			return)ValveasperIS-778I-classheavyduty-20mmNBSize		
253	LAB-00207	BMW-F.42	b)-do-labourchargesonly	Each	**57**
254	MAT-01858	BMW-F.43	a) Supplying & fixing Gunmetal (GM) Vertical Check (Nonreturn) Valve as per IS-778 I-class heavy duty - 15 mm NBSize	Each	**401**
255	LAB-00208	BMW-F.44	b)-do-labourchargesonly	Each	**57**
256	MAT-01859	BMW-F.45	a) Supplying & fixing Gunmetal (GM) Vertical Check (Nonreturn) Valve as per IS-778 I-class heavy duty - 20 mm NBSize	Each	**520**
257	LAB-00209	BMW-F.46	b)-do-labourchargesonly	Each	**57**
258	MAT-01860	BMW-F.47	a) Supplying & fixing Gunmetal (GM) Vertical Check (Nonreturn) Valve as per IS-778 I-class heavy duty - 25 mm NBSize	Each	**781**
259	LAB-00210	BMW-F.48	b)-do-labourchargesonly	Each	**57**
260	MAT-01861	BMW-F.49	a) Supplying & fixing Gunmetal (GM) Vertical Check (Nonreturn) Valve as per IS-778 I-class heavy duty - 32 mm NBSize	Each	**1073**
261	LAB-00211	BMW-F.50	b)-do-labourchargesonly	Each	**57**
262	MAT-01862	BMW-F.51	a) Supplying & fixing Gunmetal (GM) Vertical Check (Nonreturn) Valve as per IS-778 I-class heavy duty - 40 mm NBSize	Each	**1295**
263	LAB-00212	BMW-F.52	b)-do-labourchargesonly	Each	**57**
264	MAT-01863	BMW-F.53	a) Supplying & fixing Gunmetal (GM) Vertical Check (Nonreturn) Valve as per IS-778 I-class heavy duty - 50 mm NBSize	Each	**2049**
265	LAB-00213	BMW-F.54	b)-do-labourchargesonly	Each	**57**
266	MAT-01864	BMW-F.55	a)S & F Gunmetal (GM) Ball valve with SS Ball and SSSpindle as per IS - Class - I, Indian make heavy type - 15mmNBSize	Each	**431**
267	LAB-00214	BMW-F.56	b)-do-labourchargesonly	Each	**57**
268	MAT-01865	BMW-F.57	a)S & F Gunmetal (GM) Ball valve with SS Ball and SSSpindle as per IS - Class - I, Indian make heavy type - 20mmNBSize	Each	**560**
269	LAB-00215	BMW-F.58	b)-do-labourchargesonly	Each	**57**
270	MAT-01866	BMW-F.59	a)S & F Gunmetal (GM) Ball valve with SS Ball and SSSpindle as per IS - Class - I, Indian make heavy type - 25mmNBSize	Each	**817**
271	LAB-00216	BMW-F.60	b)-do-labourchargesonly	Each	**57**
272	MAT-01867	BMW-F.61	a)S & F Gunmetal (GM) Ball valve with SS Ball and SSSpindle as per IS - Class - I, Indian make heavy type - 32mmNBSize	Each	**1477**
273	LAB-00217	BMW-F.62	b)-do-labourchargesonly	Each	**57**
274	MAT-01868	BMW-F.63	a)S & F Gunmetal (GM) Ball valve with SS Ball and SSSpindle as per IS - Class - I, Indian make heavy type - 40mmNBSize	Each	**2212**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
275	LAB-00218	BMW-F.64	b)-do-labourchargesonly	Each	**2238**
276	MAT-01869	BMW-F.65	a)S & F Gunmetal (GM) Ball valve with SS Ball and SSSpindle as per IS - Class - I, Indian make heavy type - 50mmNBSize	Each	**3850**
277	LAB-00219	BMW-F.66	b)-do-labourchargesonly	Each	**57**
278	MAT-05237	BMW-F.67	a)S&F15mmNominalBoreGIpipeLightGradeproperties & weight as per IS 1239 ISI mark with GI fittingsincluding the cost of pipe & its fittings & labour chargescomplete	1RM	**170**
279	LAB-00221	BMW-F.68	b)-do-labourchargesonly	1RM	**43**
280	MAT-05238	BMW-F.69	a)S&F20mmNominalBoreGIpipeLightGradeproperties & weight as per IS 1239ISI mark with GI fittingsincluding the cost of pipe & its fittings & labour chargescomplete	1RM	**194**
281	LAB-00223	BMW-F.70	b)-do-labourchargesonly	1RM	**43**
282	MAT-05239	BMW-F.71	a)S&F25mmNominalBoreGIpipeLightGradeproperties & weight as per IS 1239ISI mark with GI fittingsincluding the cost of pipe & its fittings & labour chargescomplete	1RM	**253**
283	LAB-00225	BMW-F.72	b)-do-labourchargesonly	1RM	**43**
284	MAT-05240	BMW-F.73	a)S&F32mmNominalBoreGIpipeLightGradeproperties & weight as per IS 1239ISI mark with GI fittingsincluding the cost of pipe & its fittings & labour chargescomplete	1RM	**351**
285	LAB-00227	BMW-F.74	b)-do-labourchargesonly	1RM	**43**
286	MAT-05241	BMW-F.75	a)S&F40mmNominalBoreGIpipeLightGradeproperties & weight as per IS 1239 ISI mark with GI fittingsincluding the cost of pipe & its fittings & labour chargescomplete	1RM	**394**
287	LAB-00229	BMW-F.76	b)-do-labourchargesonly	1RM	**47**
288	MAT-05242	BMW-F.77	a)S&F50mmNominalBoreGIpipeLightGradeproperties & weight as per IS 1239 ISI mark with GI fittingsincluding the cost of pipe & its fittings & labour chargescomplete	1RM	**432**
289	LAB-00231	BMW-F.78	b)-do-labourchargesonly	1RM	**71**
290	MAT-05243	BMW-F.79	a)S&F15mmNominalBoreGIpipeMediumGradeproperties & weight as per IS 1239 ISI mark with GI fittingsincluding the cost of pipe & its fittings & labourchargescomplete	1RM	**188**
291	LAB-00233	BMW-F.80	b)-do-labourchargesonly	1RM	**43**
292	MAT-05244	BMW-F.81	a)S&F20mmNominalBoreGIpipeMediumGradeproperties & weight as per IS 1239ISI mark with GI fittingsincluding the cost of pipe & itsfittings & labour chargescomplete	1RM	**208**
293	LAB-00235	BMW-F.82	b)-do-labourchargesonly	1RM	**43**
294	MAT-05245	BMW-F.83	a)S&F25mmNominalBoreGIpipeMediumGradeproperties&weightasperIS1239ISImarkwithGIfittings	1RM	**270**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
			includingthecostofpipe&itsfittings&labourchargescomplete		
295	LAB-00237	BMW-F.84	b)-do-labourchargesonly	1RM	**43**
296	MAT-05246	BMW-F.85	a)S&F32mmNominalBoreGIpipeMediumGradeproperties & weight as per IS 1239ISI mark with GI fittingsincluding the cost of pipe & its fittings & labour chargescomplete	1RM	**376**
297	LAB-00239	BMW-F.86	b)-do-labourchargesonly	1RM	**43**
298	MAT-05247	BMW-F.87	a)S&F40mmNominalBoreGIpipeMediumGradeproperties & weight as per IS 1239 ISI mark with GI fittingsincluding the cost of pipe & its fittings & labour chargescomplete	1RM	**420**
299	LAB-00241	BMW-F.88	b)-do-labourchargesonly	1RM	**47**
300	MAT-05248	BMW-F.89	a)S&F50mmNominalBoreGIpipeMediumGradeproperties & weight as per IS 1239 ISI mark with GI fittingsincluding the cost of pipe & its fittings & labour chargescomplete	1RM	**457**
301	LAB-00243	BMW-F.90	b)-do-labourchargesonly	1RM	**71**
302	MAT-01870	BMW-F.91	S&F65mmNominalBoreGIpipeMediumGradeproperties & weight as per IS 1239 with GI fittings such aselbows tees couplings, nipples, plugs including excavationfortrenchesand refilling the trenchescompleteexcept forGI bends union and GI connectors with checkout and socketTataorZenithmakeorequivalent.	1RM	**791**
303	MAT-01871	BMW-F.92	a)S&F12.7mmholderbatclamps	Each	**13**
304	LAB-00244	BMW-F.93	b)-do-labourchargesonly	Each	**8**
305	MAT-01872	BMW-F.94	a)S&F19.05mm holderbatclamps	Each	**20**
306	LAB-00245	BMW-F.95	b)-do-labourchargesonly	Each	**0**
307	MAT-01873	BMW-F.96	a)S&F25.4mmholderbatclamps	Each	**26**
308	LAB-00246	BMW-F.97	b)-do-labourchargesonly	Each	**8**
309	MAT-01874	BMW-F.98	a)S&F38.1mmholderbatclamps	Each	**29**
310	LAB-00247	BMW-F.99	b)-do-labourchargesonly	Each	**10**
311	MAT-01875	BMW-F.100	a)S&F12.7x152.0 mmNP showerrose heavy	Each	**169**
312	LAB-00248	BMW-F.101	b)-do-labourchargesonly	Each	**21**
313	MAT-01876	BMW-F.102	a)S&F12.7x137.0 mmNP showerrose heavy	Each	**162**
314	LAB-00249	BMW-F.103	b)-do-labourchargesonly	Each	**23**
315	MAT-01877	BMW-F.104	a)S&F12.7x101.6 mmNP showerrose heavy	Each	**154**
316	LAB-00250	BMW-F.105	b)-do-labourchargesonly	Each	**23**
317	MAT-01878	BMW-	a)S &F12.7x 88.9 CPfancy shower	Each	**272**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
		F.106			
318	LAB-00251	BMW-F.107	b)-do-labourchargesonly	Each	**23**
319	MAT-01879	BMW-F.108	a)Supplying&fixing12.7mmGIdrainpipewithplugfortanks(Mud valve)includingmakingahole	Each	**45**
320	LAB-00252	BMW-F.109	b)-do-labourchargesonly	Each	**23**
321	MAT-01880	BMW-F.110	a) Supplying& fixing19.05 mm GIdrain pipewith plug fortanks(Mudvalve)includingmakinga hole	Each	**64**
322	LAB-00253	BMW-F.111	b)-do-labourchargesonly	Each	**22**
323	MAT-01881	BMW-F.112	a)Supplying&fixing25.4mmGIdrainpipewithplugfortanks(Mud valve)includingmakingahole	Each	**75**
324	LAB-00254	BMW-F.113	b)-do-labourchargesonly	Each	**25**
325	MAT-01882	BMW-F.114	a) Taking branch water connection from the existing 25.4mm GIpipe including cutting threading, etc, complete withfitting	Each	**144**
326	LAB-00255	BMW-F.115	b)-do-labourchargesonly	Each	**25**
327	MAT-01883	BMW-F.116	a) Taking branch water connection from the existing 19.05mm GIpipe including cutting threading, etc, complete withfitting,	Each	**83**
328	LAB-00256	BMW-F.117	b)-do-labourchargesonly	Each	**38**
329	MAT-01884	BMW-F.118	a) Taking branch water connection from the existing 12.7mm GIpipe including cutting threading, etc, complete withfitting,	Each	**63**
330	LAB-00257	BMW-F.119	b)-do-labourchargesonly	Each	**33**
331	MAT-01885	BMW-F.120	Supplying&fixingleatherwashersfor12.7mmbibtapandstopcock	Each	**1**
332	MAT-01886	BMW-F.121	Supplying&fixingleatherwashersfor19.05mmbibtapandstopcock	Each	**3**
333	MAT-01887	BMW-F.122	Supplying&Fixing12.7mmfibrewashers	Each	**3**
334	MAT-01888	BMW-F.123	Supplying&Fixing 19.05mmfibrewashers	Each	**3**
		G	PVCPIPES&FITTINGS(Materialsshallbeprocuredfromthelist ofapprovedBrands/ Manufacturers/ Suppliers)		
335	MAT-01889	BMW-G.01	a)Providing&PlacingonTerrace(atallfloorlevels)polyethylene water storage tank with Double layer approvedbrand&manufacturewithcoverandsuitablelockingarrangement & making necessary holes for inlet & outletsand over flow pipes but without fittings & base support fortanks	1Lit	**5**
336	LAB-00258	BMW-G.02	b)-do-labourchargesonly	1Lit	**1**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
337	MAT-01890	BMW-G.03	SupplyofPlasticstoragetanklidwithhinges	Each	**67**
338	MAT-01891	BMW-G.04	Supply &Fixing76.2 mmdiaPVCelbowIstquality	Each	**43**
339	MAT-01892	BMW-G.05	Supply&fixing31.75mmdiaPVCflexiblewastepipeof 914.4mmlengthof Istquality	Each	**23**
340	MAT-01893	BMW-G.06	Supply &Fixing38.1mm diaPVCsolidwaste pipeoutlet	Each	**81**
341	MAT-01894	BMW-G.07	Supply&fixingFancyPVC shelfincludingallfittings	Each	**192**
342	MAT-01895	BMW-G.08	Supply&fixingofPVClowlevelsystemwithinternalcomponents &shortbend:10LitrescapacitySingleFlush	Each	**1314**
343	MAT-01896	BMW-G.09	Supply&fixingofPVClowlevelsystemwithinternalcomponents &short bend:10litrescapacityDualFlush	Each	**1543**
344	MAT-01897	BMW-G.10	Supply&fixingofPVClowlevelsystemwithinternalcomponents &short bend:8LitrescapacitysingleFlush	Each	**743**
345	MAT-01898	BMW-G.11	75mmdia 3MSingle SocketPVC/SWRpipe - 4Kg/sq.cm	Each	**225**
346	MAT-01899	BMW-G.12	90mmdia 3Msingle SocketPVC/SWRpipe -4Kg/sq.cm	Each	**357**
347	MAT-01900	BMW-G.13	110mmdia3MSingleSocket PVC/SWR pipe-4Kg/sq.cm	Each	**426**
348	MAT-01901	BMW-G.14	75mmdia3MDoubleSocketPVC/SWR pipe -4Kg/sq.cm	Each	**254**
349	MAT-01902	BMW-G.15	90mmdia3MDoubleSocketPVC/SWR pipe -4Kg/sq.cm	Each	**405**
350	MAT-01903	BMW-G.16	110mm dia3MDoubleSocketPVC/SWRpipe -4Kg/sq.cm	Each	**495**
351	MAT-01904	BMW-G.17	75mmdia1828.8mm(6'-0")SingleSocketPVC/SWRpipe -4Kg/sq.cm	Each	**158**
352	MAT-01905	BMW-G.18	90mmdia1828.8mm(6'-0")SingleSocketPVC/SWRpipe -4Kg/sq.cm	Each	**243**
353	MAT-01906	BMW-G.19	110mmdia1828.8mm(6'-0")SingleSocketPVC/SWRpipe-4Kg/sq.cm	Each	**303**
354	MAT-01907	BMW-G.20	75mmdia1828.8mm(6'-0")DoubleSocketPVC/SWRpipe-4Kg/sq.cm	Each	**168**
355	MAT-01908	BMW-G.21	90mmdia1828.8mm(6'-0")DoubleSocketPVC/SWRpipe-4Kg/sq.cm	Each	**259**
356	MAT-01909	BMW-G.22	110mmdia1828.8mm(6'-0")DoubleSocketPVC/SWRpipe-4Kg/sq.cm	Each	**313**
357	MAT-01910	BMW-G.23	75mmdia1219.mm(4'-0")DoubleSocketPVC/SWRpipe -4Kg/sq.cm	Each	**116**
358	MAT-01911	BMW-G.24	90mmdia1219.mm(4'-0")DoubleSocketPVC/SWRpipe -4Kg/sq.cm	Each	**178**
359	MAT-01912	BMW-G.25	110mmdia1219.mm(4'-0")DoubleSocketPVC/SWRpipe-4Kg/sq.cm	Each	**214**
360	MAT-01913	BMW-G.26	75mmdia 914.4mm(3'-0") DoubleSocketPVC/SWRpipe-4Kg/sq.cm	Each	**98**
361	MAT-01914	BMW-G.27	90mmdia914.4mm(3'-0")DoubleSocketPVC/SWRpipe-4Kg/sq.cm	Each	**144**
362	MAT-01915	BMW-G.28	110mmdia914.4mm(3'-0")DoubleSocketPVC/SWRpipe -4Kg/sq.cm	Each	**185**
363	MAT-01916	BMW-G.29	75mmdia609.6mm(2'-0")DoubleSocketPVC/SWRpipe-4Kg/sq.cm	Each	**59**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
364	MAT-01917	BMW-G.30	90mmdia609.6mm(2'-0")DoubleSocketPVC/SWRpipe-4Kg/sq.cm	Each	**99**
365	MAT-01918	BMW-G.31	110mmdia609.6mm(2'-0")DoubleSocketPVC/SWRpipe -4Kg/sq.cm	Each	**124**
366	MAT-01919	BMW-G.32	160MMdia3MDoubleSocketPVC/SWRpipe-4Kg/sq.cm	Each	**1015**
367	MAT-01920	BMW-G.33	75mmdia 3MSingle SocketPVC/SWRpipe - 6Kg/sq.cm	Each	**381**
368	MAT-01921	BMW-G.34	90mmdia 3Msingle SocketPVC/SWRpipe -6Kg/sq.cm	Each	**613**
369	MAT-01922	BMW-G.35	110mmdia3MSingleSocketPVC/SWR pipe -6Kg/sq.cm	Each	**729**
370	MAT-01923	BMW-G.36	75mmdia3MDoubleSocketPVC/SWR pipe -6Kg/sq.cm	Each	**416**
371	MAT-01924	BMW-G.37	90mmdia3MDoubleSocketPVC/SWR pipe -6Kg/sq.cm	Each	**660**
372	MAT-01925	BMW-G.38	110mm dia3MDoubleSocketPVC/SWRpipe -6Kg/sq.cm	Each	**805**
373	MAT-01926	BMW-G.39	75mmdia1828.8mm(6'-0")SingleSocketPVC/SWRpipe -6Kg/sq.cm	Each	**250**
374	MAT-01927	BMW-G.40	90mmdia1828.8mm(6'-0")SingleSocketPVC/SWRpipe -6Kg/sq.cm	Each	**388**
375	MAT-01928	BMW-G.41	110mmdia1828.8mm(6'-0")SingleSocketPVC/SWRpipe-6Kg/sq.cm	Each	**462**
376	MAT-01929	BMW-G.42	75mmdia1828.8mm(6'-0")DoubleSocketPVC/SWRpipe-6Kg/sq.cm	Each	**267**
377	MAT-01930	BMW-G.43	90mmdia1828.8mm(6'-0")DoubleSocketPVC/SWRpipe-6Kg/sq.cm	Each	**405**
378	MAT-01931	BMW-G.44	110mmdia1828.8mm(6'-0")DoubleSocketPVC/SWRpipe-6Kg/sq.cm	Each	**499**
379	MAT-01932	BMW-G.45	75mmdia1219.mm(4'-0")DoubleSocketPVC/SWRpipe -6Kg/sq.cm	Each	**181**
380	MAT-01933	BMW-G.46	90mmdia1219.mm(4'-0")DoubleSocketPVC/SWRpipe -6Kg/sq.cm	Each	**280**
381	MAT-01934	BMW-G.47	110mmdia1219.mm(4'-0")DoubleSocketPVC/SWRpipe-6Kg/sq.cm	Each	**341**
382	MAT-01935	BMW-G.48	75mmdia914.4mm(3'-0")DoubleSocketPVC/SWRpipe-6Kg/sq.cm	Each	**156**
383	MAT-01936	BMW-G.49	90mmdia914.4mm(3'-0")DoubleSocketPVC/SWRpipe-6Kg/sq.cm	Each	**229**
384	MAT-01937	BMW-G.50	110mmdia914.4mm(3'-0")DoubleSocketPVC/SWRpipe -6Kg/sq.cm	Each	**277**
385	MAT-01938	BMW-G.51	75mmdia609.6mm(2'-0")DoubleSocketPVC/SWRpipe-6Kg/sq.cm	Each	**101**
386	MAT-01939	BMW-G.52	90mmdia609.6mm(2'-0")DoubleSocketPVC/SWRpipe-6Kg/sq.cm	Each	**157**
387	MAT-01940	BMW-G.53	110mmdia609.6mm(2'-0")DoubleSocketPVC/SWRpipe -6Kg/sq.cm	Each	**200**
388	MAT-01941	BMW-G.54	160mmdia3MDoubleSocketPVC/SWRpipe-6Kg/sq.cm	Each	**1660**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
389	MAT-01942	BMW-G.55	75mmdia-PlainBend87.5Degree-UPVC/SWRPipefittings	Each	**44**
390	MAT-01943	BMW-G.56	90mmdia-PlainBend87.5Degree-UPVC/SWRPipefittings	Each	**61**
391	MAT-01944	BMW-G.57	110mmdia-PlainBend87.5Degree-UPVC/SWRPipefittings	Each	**73**
392	MAT-01945	BMW-G.58	75mmdia-DoorBend87.5Degree-UPVC/SWRPipefittings	Each	**59**
393	MAT-01946	BMW-G.59	90mmdia-DoorBend87.5Degree-UPVC/SWRPipefittings	Each	**83**
394	MAT-01947	BMW-G.60	110mmdia-DoorBend87.5Degree-UPVC/SWRPipefittings	Each	**95**
395	MAT-01948	BMW-G.61	75mmdia-45Degree Bend-UPVC/SWR Pipefittings	Each	**34**
396	MAT-01949	BMW-G.62	90mmdia-45Degree Bend-UPVC/SWR Pipefittings	Each	**48**
397	MAT-01950	BMW-G.63	110mmdia -45 DegreeBend-UPVC/SWR Pipefittings	Each	**61**
398	MAT-01951	BMW-G.64	75mmdia-CleaningPipe -UPVC/SWR Pipefittings	Each	**59**
399	MAT-01952	BMW-G.65	90mmdia-CleaningPipe -UPVC/SWR Pipefittings	Each	**86**
400	MAT-01953	BMW-G.66	110mmdia -Cleaning Pipe-UPVC/SWRPipe fittings	Each	**104**
401	MAT-01954	BMW-G.67	75mmdia-SingleTee-UPVC/SWRPipefittings	Each	**52**
402	MAT-01955	BMW-G.68	90mmdia-SingleTee-UPVC/SWRPipefittings	Each	**78**
403	MAT-01956	BMW-G.69	110mmdia -SingleTee- UPVC/SWR Pipefittings	Each	**95**
404	MAT-01957	BMW-G.70	75mmdia-SingleTeewithDoor -UPVC/SWR Pipe fittings	Each	**64**
405	MAT-01958	BMW-G.71	90mmdia-SingleTeewithDoor -UPVC/SWR Pipe fittings	Each	**95**
406	MAT-01959	BMW-G.72	110mmdia-SingleTeewithDoor-UPVC/SWRPipefittings	Each	**114**
407	MAT-01960	BMW-G.73	75mmdia-DoubleTee-UPVC/SWR Pipefittings	Each	**100**
408	MAT-01961	BMW-G.74	90mmdia-DoubleTee- UPVC/SWRPipefittings	Each	**161**
409	MAT-01962	BMW-G.75	110mmdia -DoubleTee- UPVC/SWR Pipefittings	Each	**190**
410	MAT-01963	BMW-G.76	75mmdia-DoubleTeewithDoor-UPVC/SWRPipefittings	Each	**133**
411	MAT-01964	BMW-G.77	90mmdia-DoubleTeewithDoor-UPVC/SWRPipefittings	Each	**252**
412	MAT-01965	BMW-G.78	110mmdia-DoubleTeewithDoor-UPVC/SWRPipefittings	Each	**246**
413	MAT-01966	BMW-G.79	75mmdia-Single'Y'-UPVC/SWR Pipe fittings	Each	**66**
414	MAT-01967	BMW-G.80	90mmdia- Single'Y' -UPVC/SWRPipefittings	Each	**104**
415	MAT-01968	BMW-G.81	110mmdia -Single'Y'-UPVC/SWR Pipefittings	Each	**120**
416	MAT-01969	BMW-G.82	75mmdia-Single'Y'withDoor -UPVC/SWRPipefittings	Each	**83**
417	MAT-01970	BMW-G.83	90mmdia-Single'Y'withDoor -UPVC/SWRPipefittings	Each	**131**
418	MAT-01971	BMW-G.84	110mmdia -Single'Y'withDoor-UPVC/SWR Pipefittings	Each	**151**
419	MAT-01972	BMW-G.85	75mmdia-Double'Y'-UPVC/SWRPipefittings	Each	**89**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
420	MAT-01973	BMW-G.86	90mmdia-Double'Y'-UPVC/SWRPipefittings	Each	**139**
421	MAT-01974	BMW-G.87	110mmdia -Double'Y'-UPVC/SWR Pipefittings	Each	**158**
422	MAT-01975	BMW-G.88	75mmdia-Double'Y'with Door-UPVC/SWRPipefittings	Each	**116**
423	MAT-01976	BMW-G.89	90mmdia-Double'Y'with Door -UPVC/SWRPipefittings	Each	**181**
424	MAT-01977	BMW-G.90	110mmdia-Double'Y'withDoor-UPVC/SWRPipefittings	Each	**204**
425	MAT-01978	BMW-G.91	75mmdia-Coupler-UPVC/SWR Pipe fittings	Each	**31**
426	MAT-01979	BMW-G.92	90mmdia-Coupler-UPVC/SWR Pipefittings	Each	**45**
427	MAT-01980	BMW-G.93	110mmdia -Coupler-UPVC/SWR Pipefittings	Each	**50**
428	MAT-01981	BMW-G.94	90x75mm dia-Reducer - UPVC/SWRPipefittings	Each	**52**
429	MAT-01982	BMW-G.95	110x75mmdia-Reducer-UPVC/SWR Pipefittings	Each	**50**
430	MAT-01983	BMW-G.96	90x110mmdia-Reducer-UPVC/SWR Pipefittings	Each	**70**
431	MAT-01984	BMW-G.97	63mmdia- VentCowl-UPVC/SWR Pipefittings	Each	**8**
432	MAT-01985	BMW-G.98	75mmdia- VentCowl-UPVC/SWR Pipefittings	Each	**12**
433	MAT-01986	BMW-G.99	90mmdia- VentCowl-UPVC/SWR Pipefittings	Each	**15**
434	MAT-01987	BMW-G.100	110mmdia -VentCowl- UPVC/SWR Pipefittings	Each	**17**
435	MAT-01988	BMW-G.101	40mmdia-PipeClip-UPVC/SWRPipefittings-PipeClip -UPVC/SWR Pipefittings	Each	**9**
436	MAT-01989	BMW-G.102	50mmdia- PipeClip-UPVC/SWRPipe fittings	Each	**12**
437	MAT-01990	BMW-G.103	63mmdia- PipeClip-UPVC/SWRPipe fittings	Each	**12**
438	MAT-01991	BMW-G.104	75mmdia- PipeClip-UPVC/SWRPipe fittings	Each	**14**
439	MAT-01992	BMW-G.105	90mmdia- PipeClip-UPVC/SWRPipe fittings	Each	**15**
440	MAT-01993	BMW-G.106	110mm-PipeClip-UPVC/SWRPipefittings	Each	**16**
441	MAT-01994	BMW-G.107	160mmdia -Pipe Clip-UPVC/SWR Pipefittings	Each	**31**
442	MAT-01995	BMW-G.108	P'Trap(SmallwithoutAirvent)110mm-UPVC/SWRPipefittings	Each	**165**
443	MAT-01996	BMW-G.109	P'Trap(SmallwithAirvent)110mm-UPVC/SWRPipefittings	Each	**183**
444	MAT-01997	BMW-G.110	P'Trap(BigwithAirvent)110mm-UPVC/SWRPipefittings	Each	**209**
445	MAT-01998	BMW-G.111	P'Trap(BigwithoutAirvent)110mm-UPVC/SWRPipefittings	Each	**192**
446	MAT-01999	BMW-G.112	FloorTrap(BellMouth)110mm-UPVC/SWRPipe fittings	Each	**200**
447	MAT-02000	BMW-G.113	BellMouthTrap 7"(177.8mm)-UPVC/SWR Pipefittings	Each	**290**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
448	MAT-02001	BMW-G.114	4"(101.6mm)NahanyTrap(WithoutJaliwithinlet)UPVC/SWRPipefittings	Each	**86**
449	MAT-02002	BMW-G.115	3"(76.2mm)NahanyTrap(withoutJaliwithoutinlet)UPVC/SWRPipefittings	Each	**77**
450	MAT-02003	BMW-G.116	4"(101.6mm)NahanyTrap(withoutinletwithoutJali)UPVC/SWRPipefittings	Each	**86**
451	MAT-02004	BMW-G.117	MiniTrap-UPVC/SWRPipefittings	Each	**47**
452	MAT-02005	BMW-G.118	3"(76.2mm)NahanyTrapwithJali-UPVC/SWRPipefittings	Each	**89**
453	MAT-02006	BMW-G.119	4"(101.6mm)multifloortrapwithJali-UPVC/SWRPipefittings	Each	**127**
454	MAT-02007	BMW-G.120	4"(101.6)multifloortrapwithoutJalli-UPVC/SWRPipefittings	Each	**99**
455	MAT-02008	BMW-G.121	RoundJali-UPVC/SWR Pipefittings	Each	**21**
456	MAT-02009	BMW-G.122	Squaretile&Jalli-UPVC/SWR Pipe fittings	Each	**34**
457	MAT-02010	BMW-G.123	Pipeconnector(withLIPring) -UPVC/SWRPipefittings	Each	**127**
458	MAT-02011	BMW-G.124	Pipeconnector(with outLIPring)-UPVC/SWRPipefittings	Each	**103**
459	MAT-02012	BMW-G.125	4"(101.6mm)FloorTrap- UPVC/SWR Pipe fittings	Each	**122**
460	MAT-02013	BMW-G.126	5"(127.mm)floorTrap-UPVC/SWR Pipefittings	Each	**129**
461	MAT-02014	BMW-G.127	75mmdia-Doorcap-UPVC/SWR Pipe fittings	Each	**32**
462	MAT-02015	BMW-G.128	90mmdia-Doorcap-UPVC/SWR Pipe fittings	Each	**56**
463	MAT-02016	BMW-G.129	110mmdia-Doorcap-UPVC/SWR Pipefittings	Each	**47**
464	MAT-02017	BMW-G.130	75mmdia- Socketplug-UPVC/SWR Pipefittings	Each	**31**
465	MAT-02018	BMW-G.131	90mmdia- Socketplug-UPVC/SWR Pipefittings	Each	**54**
466	MAT-02019	BMW-G.132	110mmdia -Socketplug- UPVC/SWR Pipefittings	Each	**56**
467	MAT-02020	BMW-G.133	75mmdia-RubberringforSocket-UPVC/SWRPipefittings	Each	**7**
468	MAT-02021	BMW-G.134	90mmdia-RubberringforSocket-UPVC/SWRPipefittings	Each	**8**
469	MAT-02022	BMW-G.135	110mmdia-RubberringforSocket-UPVC/SWRPipefittings	Each	**9**
470	MAT-02023	BMW-G.136	75mmdia-DoorSocket-UPVC/SWR Pipefittings	Each	**8**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
471	MAT-02024	BMW-G.137	90mmdia-DoorSocket-UPVC/SWR Pipefittings	Each	**9**
472	MAT-02025	BMW-G.138	110mmdia -Door Socket- UPVC/SWR Pipefittings	Each	**12**
473	MAT-02026	BMW-G.139	LIPring110mm -UPVC/SWR Pipefittings	Each	**60**
474	MAT-02027	BMW-G.140	RubberLubricant- 100Grams	Each	**23**
475	MAT-02028	BMW-G.141	RubberLubricant-250Grams	Each	**45**
476	MAT-02029	BMW-G.142	RubberLubricant- 500Grams	Each	**81**
477	MAT-02030	BMW-G.143	RubberLubricant- 1000Grams	Each	**192**
478	MAT-02031	BMW-G.144	P'TrapwithlipUPVC/SWR Pipefittings	Each	**262**
479	MAT-02032	BMW-G.145	50ml-SolventCement	Each	**14**
480	MAT-02033	BMW-G.146	100ml- SolventCement	Each	**22**
481	MAT-02034	BMW-G.147	250ml- SolventCement	Each	**52**
482	MAT-02035	BMW-G.148	500ml- SolventCement	Each	**102**
483	MAT-02036	BMW-G.149	1000ml-SolventCement	Each	**200**
484	MAT-02037	BMW-G.150	110mmx90mm-InternalReducer-UPVC/SWRPipefittings	Each	**79**
485	MAT-02038	BMW-G.151	160mmx110mm-InternalReducer-UPVC/SWRPipefittings	Each	**198**
486	LAB-00259	BMW-G.152	LabourchargesforlayingfixingandcommissioningthePVC pipes including couplers/ bends/ tees etc any diameterincludingfixingnecessaryfittingslikebends,plugs,couplers, junctions, tees, etc with solvent jointing as perstandard practice	1RM	**74**
		H	CENTRIFUGALCASTIRONPIPES&FITTNGSASPERIS:3989- 1984		
487	MAT-02039	BMW-H.01	75mmdiaCI(spun)soils Waste &Ventilating pipe(3 M)	Each	**1321**
488	MAT-02040	BMW-H.02	100mmdiaCI(spun)soils Waste& Ventilatingpipe(3M)	Each	**1759**
489	MAT-02041	BMW-H.03	150mmdiaCI(spun)soils Waste& Ventilatingpipe(3M)	Each	**3223**
490	MAT-02042	BMW-H.04	75mmdiaCI(spun)soilsWaste&Ventilatingpipe(3M)Doublesocket	Each	**1466**
491	MAT-02043	BMW-H.05	100mmdiaCI(spun)soilsWaste&Ventilatingpipe(3M)Doublesocket	Each	**1978**
492	MAT-02044	BMW-H.06	75mmdia 9'-0"(2743.2 mm)CI(Spun)pipes	Each	**1188**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
493	MAT-02045	BMW-H.07	100mmdia9'-0"(2743.2mm)CI(Spun)pipes	Each	**1587**
494	MAT-02046	BMW-H.08	75mmdia8'-0"(2438.4 mm)CI(Spun)pipes	Each	**1063**
495	MAT-02047	BMW-H.09	100mmdia8'-0"(2438.4mm)CI(Spun)pipes	Each	**1412**
496	MAT-02048	BMW-H.10	75mmdia 6'-0"(1828.8 mm)CI(Spun)pipes	Each	**864**
497	MAT-02049	BMW-H.11	100mmdia6'-0"(1828.8mm)CI(Spun)pipes	Each	**1127**
498	MAT-02050	BMW-H.12	75mmdia6'-0"(1828.8mm)DoubleSocketCI(Spun)pipes	Each	**909**
499	MAT-02051	BMW-H.13	100mmdia6'-0"(1828.8mm)DoubleSocketCI(Spun)pipes	Each	**1127**
500	MAT-02052	BMW-H.14	75mmdiaCutpipes(pieces)1foot(304.8mm)CI(Spun)fittings	Each	**315**
501	MAT-02053	BMW-H.15	100mmdiaCutpipes(pieces)1foot(304.8mm)CI(Spun)fittings	Each	**362**
502	MAT-02054	BMW-H.16	75mmdiaCutpipes(pieces)1'.6"(457.2mm)CI(Spun)fittings	Each	**451**
503	MAT-02055	BMW-H.17	100mmdiaCutpipes(pieces)1'.6"(457.2mm)CI(Spun)fittings	Each	**519**
504	MAT-02056	BMW-H.18	150mmdiaCutpipes(pieces)1'.6"(457.2mm)CI(Spun)fittings	Each	**990**
505	MAT-02057	BMW-H.19	75mmdiaCutpipes(pieces)2feet(609.6mm)CI(Spun)fittings	Each	**623**
506	MAT-02058	BMW-H.20	100mmdiaCutpipes(pieces)2feet(609.6mm)CI(Spun)fittings	Each	**687**
507	MAT-02059	BMW-H.21	150mmdiaCutpipes(pieces)2feet(609.6mm)CI(Spun)fittings	Each	**1241**
508	MAT-02060	BMW-H.22	75mmdiaCutpipes(pieces)3feet(914.4mm)CI(Spun)fittings	Each	**955**
509	MAT-02061	BMW-H.23	100mmdiaCutpipes(pieces)3feet(914.4mm)CI(Spun)fittings	Each	**1289**
510	MAT-02062	BMW-H.24	75mm diaCutpipes (pieces) 4 feet(1219.2mm) CI (Spun)fittings	Each	**1050**
511	MAT-02063	BMW-H.25	100mmdiaCutpipes(pieces)4feet(1219.2mm)CI(Spun)fittings	Each	**1571**
512	MAT-02064	BMW-H.26	75mmdia PlainBend-CI(Spun)fittings	Each	**324**
513	MAT-02065	BMW-H.27	100mmdiaPlainBend-CI (Spun)fittings	Each	**382**
514	MAT-02066	BMW-H.28	150mmdiaPlainBend-CI (Spun)fittings	Each	**909**
515	MAT-02067	BMW-H.29	75mmdiaDoorBend-CI(Spun)fittings	Each	**336**
516	MAT-02068	BMW-H.30	100mmdiaDoor Bend-CI (Spun)fittings	Each	**435**
517	MAT-02069	BMW-H.31	150mmdiaDoor Bend-CI (Spun)fittings	Each	**995**
518	MAT-02070	BMW-H.32	75mmdia PlainBend 45 Degrees-CI(Spun)fittings	Each	**324**
519	MAT-02071	BMW-H.33	100mmdiaPlainBend45Degrees -CI (Spun)fittings	Each	**382**
520	MAT-02072	BMW-H.34	150mmdiaPlainBend45Degrees -CI (Spun)fittings	Each	**909**
521	MAT-02073	BMW-H.35	75mmdiaDoorBend45Degrees-CI(Spun)fittings	Each	**336**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
522	MAT-02074	BMW-H.36	100mmdiaDoor Bend45Degrees-CI (Spun)fittings	Each	**435**
523	MAT-02075	BMW-H.37	150mmdiaDoor Bend45Degrees-CI (Spun)fittings	Each	**995**
524	MAT-02076	BMW-H.38	HornBendPlain101.6x50.8mm(4"x2")100mmdia-CI(Spun)fittings	Each	**660**
525	MAT-02077	BMW-H.39	HornBenddoor101.6x50.8mm(4"x2")100mmdia-CI(Spun)fittings	Each	**771**
526	MAT-02078	BMW-H.40	75mmdiaHeelRest Bend-CI(Spun)fittings	Each	**345**
527	MAT-02079	BMW-H.41	100mm dia HeelRestBend -CI(Spun)fittings	Each	**441**
528	MAT-02080	BMW-H.42	150mm dia HeelRestBend -CI(Spun)fittings	Each	**938**
529	MAT-02081	BMW-H.43	75mmdiaSingle BranchPlain"T"-CI(Spun)fittings	Each	**435**
530	MAT-02082	BMW-H.44	100mmdiaSingleBranch Plain"T"-CI(Spun)fittings	Each	**587**
531	MAT-02083	BMW-H.45	150mmdiaSingleBranch Plain"T"-CI(Spun)fittings	Each	**1211**
532	MAT-02084	BMW-H.46	75mmdiaSingle BranchDoor"T"-CI(Spun)fittings	Each	**513**
533	MAT-02085	BMW-H.47	100mmdiaSingleBranchDoor"T"-CI(Spun)fittings	Each	**680**
534	MAT-02086	BMW-H.48	150mmdiaSingleBranchDoor"T"-CI(Spun)fittings	Each	**1278**
535	MAT-02087	BMW-H.49	75mmdiaSingleBranchplain"Y"-CI(Spun)fittings	Each	**513**
536	MAT-02088	BMW-H.50	100mmdiaSingleBranch plain"Y"-CI (Spun)fittings	Each	**680**
537	MAT-02089	BMW-H.51	150mmdiaSingleBranch plain"Y"-CI (Spun)fittings	Each	**1501**
538	MAT-02090	BMW-H.52	75mmdia SingleBranchDoor"Y"-CI(Spun)fittings	Each	**562**
539	MAT-02091	BMW-H.53	100mmdiaSingleBranchDoor"Y"-CI(Spun) fittings	Each	**751**
540	MAT-02092	BMW-H.54	150mmdiaSingleBranchDoor"Y"-CI(Spun) fittings	Each	**1616**
541	MAT-02093	BMW-H.55	75mmdiaDouble BranchPlain"T"-CI(Spun) fittings	Each	**594**
542	MAT-02094	BMW-H.56	100mmdiaDoubleBranch Plain"T"-CI(Spun)fittings	Each	**800**
543	MAT-02095	BMW-H.57	75mmdiaDouble Branch Door"T"-CI(Spun)fittings	Each	**662**
544	MAT-02096	BMW-H.58	100mmdiaDoubleBranch Door"T"-CI(Spun)fittings	Each	**834**
545	MAT-02097	BMW-H.59	75mmdiaDouble BranchPlain"Y"-CI(Spun)fittings	Each	**662**
546	MAT-02098	BMW-H.60	100mmdiaDoubleBranchPlain "Y"-CI(Spun)fittings	Each	**834**
547	MAT-02099	BMW-H.61	75mmdiaDoubleBranch Door"Y"-CI(Spun)fittings	Each	**698**
548	MAT-02100	BMW-H.62	100mmdia DoubleBranchDoor"Y"-CI(Spun)fittings	Each	**905**
549	MAT-02101	BMW-H.63	75mmdia ShoeBend-CI (Spun)fittings	Each	**410**
550	MAT-02102	BMW-H.64	100mmdia ShoeBend-CI(Spun)fittings	Each	**479**
551	MAT-02103	BMW-H.65	150mmdia ShoeBend-CI(Spun)fittings	Each	**972**
552	MAT-02104	BMW-H.66	75mmdiaCollar-CI(Spun)fittings	Each	**280**
553	MAT-02105	BMW-H.67	100mmdiaCollar-CI(Spun)fittings	Each	**340**
554	MAT-02106	BMW-H.68	150mmdiaCollar-CI(Spun)fittings	Each	**698**
555	MAT-02107	BMW-H.69	75mmdiaCowl -CI(Spun)fittings	Each	**248**
556	MAT-02108	BMW-H.70	100mmdia Cowl-CI(Spun)fittings	Each	**280**
557	MAT-02109	BMW-H.71	150mmdia Cowl-CI(Spun)fittings	Each	**628**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
558	MAT-02110	BMW-H.72	75mmdiaOffset3"(76.2mm)projection-CI(Spun)fittings	Each	**359**
559	MAT-02111	BMW-H.73	100mmdiaOffset3"(76.2mm)projection-CI(Spun)fittings	Each	**435**
560	MAT-02112	BMW-H.74	150mmdiaOffset3"(76.2mm)projection-CI(Spun)fittings	Each	**878**
561	MAT-02113	BMW-H.75	75mmdiaOffset6"(152.4mm)projection-CI(Spun)fittings	Each	**392**
562	MAT-02114	BMW-H.76	100mmdiaOffset6"(152.4mm)projection-CI(Spun)fittings	Each	**513**
563	MAT-02115	BMW-H.77	150mmdiaOffset6"(152.4mm)projection-CI(Spun)fittings	Each	**1022**
564	MAT-02116	BMW-H.78	75mmdiaLong DoorBend-CI(Spun)fittings	Each	**824**
565	MAT-02117	BMW-H.79	100mmdiaLongDoorBend-CI(Spun)fittings	Each	**886**
566	MAT-02118	BMW-H.80	75mmdia HandHole pipe(Inspectionpipe)	Each	**473**
567	MAT-02119	BMW-H.81	100mmdiaHandHolepipe(Inspectionpipe)	Each	**645**
568	MAT-02120	BMW-H.82	150mmdiaHandHole pipe(Inspectionpipe)	Each	**858**
569	MAT-02121	BMW-H.83	75mmdia PTraps -CI(Spun)fittings	Each	**513**
570	MAT-02122	BMW-H.84	100mm diaPTraps-CI(Spun)fittings	Each	**703**
571	MAT-02123	BMW-H.85	4"x3"(101.6mmx76.2mm)P.Traps100mmdia-CI(Spun)fittings	Each	**806**
572	MAT-02124	BMW-H.86	4"x3"(101.6mmx76.2mm)VentTraps100mmdia-CI(Spun)fittings	Each	**806**
573	MAT-02125	BMW-H.87	4"x3"(101.6mmx76.2mm)Reducer75mmdia-CI(Spun)fittings	Each	**500**
574	MAT-02126	BMW-H.88	6"x4"(152.4mmx101.6mm)Reducer75mmdia-CI(Spun)fittings	Each	**685**
575	MAT-02127	BMW-H.89	3"x2"(76.2 mm x 50.8 mm)plain T75 mmdia- CI(Spun)fittings	Each	**427**
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	**668**
577	MAT-02129	BMW-H.91	3"x2"(76.2mmx50.8mm)PlainY75mmdia-CI(Spun)fittings	Each	**668**
578	MAT-02130	BMW-H.92	3"x2"(76.2mmx50.8mm)DoorY75mmdia-CI(Spun)fittings	Each	**668**
579	MAT-02131	BMW-H.93	4"x3"(101.6mmx76.2mm)Plain T75mm dia-CI (Spun)fittings	Each	**668**
580	MAT-02132	BMW-H.94	4"x3"(101.6mmx76.2mm)DoorT75mmdia-CI(Spun)fittings	Each	**707**
581	MAT-02133	BMW-H.95	4" x3"(101.6 mm x76.2mm)PlainY75 mmdia-CI (Spun)fittings	Each	**707**
582	MAT-02134	BMW-H.96	4"x3"(101.6mmx76.2mm)DoorY75mmdia-CI(Spun)fittings	Each	**755**
583	MAT-02135	BMW-H.97	6"x4"(152.4mmx101.6mm)PlainT75mmdia-CI	Each	**988**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
			(Spun)fittings		
584	MAT-02136	BMW-H.98	6"x4"(152.4mmx101.6mm)DoorT75mmdia-CI(Spun)fittings	Each	**1070**
585	MAT-02137	BMW-H.99	6"x4"(152.4mmx101.6mm)PlainY75mmdia-CI(Spun)fittings	Each	**1133**
586	MAT-02138	BMW-H.100	6"x4"(152.4mmx101.6mm)DoorY75mmdia-CI(Spun)fittings	Each	**1384**
587	MAT-02139	BMW-H.101	75 mm diaPlain " T" 27 " (685.8 mm) Special Types of LongFittings	Each	**1434**
588	MAT-02140	BMW-H.102	100mmdia-Plain"T"27"(685.8mm)SpecialTypesofLong CI(Spun)fittings	Each	**2014**
589	MAT-02141	BMW-H.103	75mmdiaDoor"T"27"(685.8mm)SpecialTypesofLongCI(Spun) fittings	Each	**1602**
590	MAT-02142	BMW-H.104	100mmdiaDoor"T"27"(685.8mm)SpecialTypesofLongCI(Spu n) fittings	Each	**2213**
591	MAT-02143	BMW-H.105	75mmdiaPlain"Y"27"(685.8mm)SpecialTypesofLongCI(Spu n) fittings	Each	**1602**
592	MAT-02144	BMW-H.106	100mmdiaPlain"Y"27"(685.8mm)SpecialTypesofLongCI(Sp un) fittings	Each	**2213**
593	MAT-02145	BMW-H.107	75mmdiaDoor"Y"27"(685.8mm)SpecialTypesofLongCI(Spun) fittings	Each	**1786**
594	MAT-02146	BMW-H.108	100mmdiaDoor"Y"27"(685.8mm)SpecialTypesofLongCI(Spu n) fittings	Each	**2430**
		I	MISCELLANEOUSITEMS		
595	MAT-02147	BMW-I.01	a)Supplying &Fixingsolderjointsup to50.8 mm dia	Each	**59**
596	LAB-00260	BMW-I.02	b)-do-labourchargesonly	Each	**20**
597	MAT-02148	BMW-I.03	a)Supplying&Fixingsolutionjointsupto50.8dialstquality.	Each	**12**
598	LAB-00261	BMW-I.04	b)-do-labourchargesonly	Each	**2**
599	MAT-02149	BMW-I.05	Chisellingthestonemasonrywallforfixingofwoodenblocksinclu ding finishingasdirected bythe department	Each	**32**
600	MAT-02150	BMW-I.06	Chiselling the stone masonry wall and repairs as directed bythedepartment.	1Rm	**152**
601	MAT-02151	BMW-I.07	Chisellingthebrickmasonrywallandrepairsasdirectedbythede partment.	1Rm	**32**
602	MAT-02152	BMW-I.08	a) S & F NP telephonic shower spray set & valve mixer withrest and all fittings complete (ARK/ESSCO orequivalentmake)	Each	**1987**
603	LAB-00262	BMW-I.09	b)-do-labourchargesonly	Each	**425**
604	MAT-02153	BMW-I.10	a)S &FNPshowerspray fancywith NPFlexiblepipe	Each	**532**
605	LAB-00263	BMW-I.11	b)-do-labourchargesonly	Each	**141**
606	MAT-02154	BMW-I.12	a)S &FNPcoverfor Nahany trap	Each	**30**
607	LAB-00264	BMW-I.13	b)-do-labourchargesonly	Each	**20**
608	MAT-02155	BMW-I.14	a)Paintingtheflushingtankwithwhiteenamelpaint	Each	**111**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
609	LAB-00265	BMW-I.15	b)-do-labourchargesonly	Each	**68**
610	MAT-02156	BMW-I.16	S&FinternalfittingsforflushtankParryplastwonderflushorequivalent	Each	**727**
611	MAT-02157	BMW-I.17	Repairingandover haulingflushingtank	Each	**85**
612	MAT-02158	BMW-I.18	a)Supplying &Fixing NP chainrubberandplugforbasin	Each	**39**
613	LAB-00266	BMW-I.19	b)-do-labourchargesonly	Each	**7**
614	MAT-02159	BMW-I.20	a)S&F25.4mmdia&609.6mmlongaluminiumanodizedtowelrodwithbrackets and aluminiumscrews	Each	**153**
615	LAB-00267	BMW-I.21	b)-do-labourchargesonly	Each	**47**
616	MAT-02160	BMW-I.22	a)S&F19.04mmdia&609.6mmlongaluminiumanodized towelrodwithbracketsandaluminiumscrews	Each	**136**
617	LAB-00268	BMW-I.23	b)-do-labourchargesonly	Each	**71**
618	MAT-02161	BMW-I.24	a) S & F 609.6 mm long 127 mm wide plate glass shelf withsuperior quality aluminium railing complete with aluminiumscrews	Each	**195**
619	LAB-00269	BMW-I.25	b)-do-labourchargesonly	Each	**59**
620	MAT-02162	BMW-I.26	a)S &F609.6 mm long 127mmwideplateglassshelfonly	Each	**63**
621	LAB-00270	BMW-I.27	b)-do-labourchargesonly	Each	**12**
622	MAT-02163	BMW-I.28	a)S &FNPsoap dish heavytypewith NP SCREWS	Each	**218**
623	LAB-00271	BMW-I.29	b)-do-labourchargesonly	Each	**13**
624	MAT-02164	BMW-I.30	a)S&FNPholderbracketswithscrews	Each	**45**
625	LAB-00272	BMW-I.31	b)-do-labourchargesonly	Each	**15**
626	MAT-02165	BMW-I.32	a)S&FliquidsoapcontainerNPmetallicwithNPbracketsandscrews.	Each	**219**
627	LAB-00273	BMW-I.33	b)-do-labourchargesonly	Each	**23**
628	MAT-02166	BMW-I.34	a)S &F31.75 mmC.P TRAPS	Each	**286**
629	LAB-00274	BMW-I.35	b)-do-labourchargesonly	Each	**47**
630	MAT-02167	BMW-I.36	a)Supplying &fixing88.9 mm A.Ccowls	Each	**65**
631	LAB-00275	BMW-I.37	b)-do-labourchargesonly	Each	**15**
632	MAT-02168	BMW-I.38	a)Supplying&fixingA.CCowl63.5mmdia	Each	**44**
633	LAB-00276	BMW-I.39	b)-do-labourchargesonly	Each	**12**
634	MAT-02169	BMW-I.40	Removingandrefixing W.Cs	Each	**205**
635	MAT-02170	BMW-I.41	Removingandrefixingwashhandbasinsofanysizewithfittingscomplete	Each	**197**
636	MAT-02171	BMW-I.42	a)S&F76.2x101.6 mmteakwoodblockcomplete	Each	**24**
637	LAB-00277	BMW-I.43	b)-do-labourchargesonly	Each	**10**
638	LAB-00278	BMW-I.44	CuttingholesinC.C;basement&repairsLabourchargesonly	Each	**113**
639	LAB-00279	BMW-I.45	Cuttingholesinstonemasonry&basementandrepairsLabourchargesonly	Each	**76**
640	LAB-00280	BMW-I.46	Cuttingholes inBrick masonry&repairsLabourcharges only	Each	**50**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
641	LAB-00281	BMW-I.47	CuttingholesinRCCslabfloor&repairsLabourchargesonly	Each	**76**
642	MAT-02172	BMW-I.48	a)Supplying&Fixing12.7mmPVCconnectionwithbrassunionnutC.Pcoated	Each	**90**
643	LAB-00282	BMW-I.49	b)-do-labourchargesonly	Each	**18**
644	MAT-02173	BMW-I.50	a)S&F12.7 mm.M.Pcouplings	Each	**32**
645	LAB-00283	BMW-I.51	b)-do-labourchargesonly	Each	**12**
646	MAT-02174	BMW-I.52	a)S &F19.05 mmM.Pcouplings	Each	**39**
647	LAB-00284	BMW-I.53	b)-do-labourchargesonly	Each	**12**
648	MAT-02175	BMW-I.54	a)S&FMPcoupling 25.4 mmdia	Each	**86**
	LAB-00285		b)-do-labourchargesonly	Each	**12**
649	MAT-02176	BMW-I.55	a)S &FPVCRubberadopterforLLCandbend	Each	**18**
650	LAB-00286	BMW-I.56	b)-do-labourchargesonly	Each	**8**
651	MAT-02177	BMW-I.57	a)S&F31.75 mm Brassunionnuts	Each	**32**
652	LAB-00287	BMW-I.58	b)-do-labourchargesonly	Each	**7**
653	MAT-02178	BMW-I.59	a)S&F38.1mm Brassunionnuts	Each	**35**
654	LAB-00288	BMW-I.60	b)-do-labourchargesonly	Each	**10**
655	MAT-02179	BMW-I.61	a) Constructing Brick masonry chamber over the gully trapor peet valve and fitted with 304.8 x 228.6 m size CI frameand hingedcover.	Each	**442**
656	LAB-00289	BMW-I.62	b)-do-labourchargesonly	Each	**106**
657	MAT-02180	BMW-I.63	a)ConstructingBrickmasonrysupportforG.IpipewithC.M 304.8x228.6x228.6mmsizeincludingplasteringandfinishingetc.complete.	Each	**72**
658	LAB-00290	BMW-I.64	b)-do-labourchargesonly	Each	**23**
659	MAT-02181	BMW-I.65	a)Supplying&fixing304.8x228.6mmCIframe&coverovergully taps	Each	**115**
660	LAB-00291	BMW-I.66	b)-do-labourchargesonly	Each	**37**
661	MAT-02182	BMW-I.67	a)Supplying &fixingCI Nahanytrapgrating	Each	**20**
662	LAB-00292	BMW-I.68	b)-do-labourchargesonly	Each	**12**
663	MAT-02183	BMW-I.69	a)Supplying &fixingCIgullytrapgrating	Each	**46**
664	LAB-00293	BMW-I.70	b)-do-labourchargesonly	Each	**12**
665	MAT-02184	BMW-I.71	a)Supplying&fixingvalvesforbrassballcocks25.4mmdia	Each	**18**
666	LAB-00294	BMW-I.72	b)-do-labourchargesonly	Each	**10**
667	MAT-02185	BMW-I.73	a)Supplying &fixing12.7 mvalveforbibtaporstopcocks	Each	**17**
668	LAB-00295	BMW-I.74	b)-do-labourchargesonly	Each	**7**
669	MAT-02186	BMW-I.75	a)Supplying &fixing19.05mvalveforbibtaporstop cocks	Each	**37**
670	LAB-00296	BMW-I.76	b)-do-labourchargesonly	Each	**12**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
671	MAT-02187	BMW-I.77	Removing12.7mmGIpipe andrefixingthesame	Mr.	**61**
672	MAT-02188	BMW-I.78	Removing19.05mmGIpipeandrefixingthe same	Mr.	**67**
673	MAT-02189	BMW-I.79	Removing25.4mmGIpipe andrefixingthesame	Mr.	**101**
674	MAT-02190	BMW-I.80	Removing38.1mmGIpipe andrefixingthesame	Rm	**127**
675	MAT-02191	BMW-I.81	Removing50.8mmGIpipe andrefixingthesame	Rm	**149**
676	MAT-02192	BMW-I.82	Cleaningthe W.Cwith acidand Vimpowder	Each	**41**
677	MAT-02193	BMW-I.83	CleaningtheUrinalwith acidandVim power	Each	**41**
678	MAT-02194	BMW-I.84	CleaningthewashbasinwithacidandVim powder	Each	**41**
679	MAT-02195	BMW-I.85	CleaningtheE.W.Cwith acidandVimpower	Each	**41**
680	MAT-02196	BMW-I.86	Supplying&fixing914.4x457.2mmCI manholeframeandcover(lightweight) 30Kgs	Each	**1815**
681	MAT-02197	BMW-I.87	Supplying&fixing602x602mmCImanholeframeandcover(light weight) 30Kgs	Each	**2687**
682	LAB-00297	BMW-I.88	b)-do-labourchargesonly	Each	**148**
683	MAT-02198	BMW-I.89	a)Supplying &fixingCIstepsforseptictank.	Each	**60**
684	LAB-00298	BMW-I.90	b)-do-labourchargesonly	Each	**12**
685	MAT-02199	BMW-I.91	a)Supplying&fixing50.8cmdiaC.I.Manholeframe&coverfor91 4.4mmdiachamber(20 Kgs- Lightweight)	Each	**1175**
686	LAB-00299	BMW-I.92	b)-do-labourchargesonly	Each	**148**
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 perIS:1726-40Kgs	Each	**2438**
688	LAB-00300	BMW-I.94	b)-do-labourchargesonly	Each	**377**
689	LAB-00301	BMW-I.95	Cost. 50.8 mm thick RCM baffle wall with 2.267 Kg steel &rabbitwiremeshinCM1:3withfinerenderinginneatcement labourcharges Only	1Sqm	**222**
690	MAT-02201	BMW-I.96	a)Cost.50.8mmRCCpartitionwall	1Sqm	**249**
691	LAB-00302	BMW-I.97	b)-do-labourchargesonly	1Sqm	**47**
692	MAT-02202	BMW-I.98	a)S&Fdoublelayerofbamboomattingtarredonbothsides.	10 Sqm	**573**
693	LAB-00303	BMW-I.99	b)-do-labourchargesonly	10 Sqm	**130**
694	MAT-02203	BMW-I.100	Removingof 101.6m or76.2mmCI pipe	1RM	**32**
695	MAT-02204	BMW-I.101	a)Supplying &fixing76.2mm W.Iclamps	Each	**24**
696	LAB-00304	BMW-I.102	b)-do-labourchargesonly	Each	**10**
697	MAT-02205	BMW-I.103	a)Supplying &fixingNPcoathook	Each	**43**
698	LAB-00305	BMW-I.104	b)-do-labourchargesonly	Each	**12**
699	MAT-02206	BMW-I.105	a)SupplyingandfixingTVshapemirrorwithplasticframesize609 .6mmx 457.2mm	Each	**474**
700	LAB-00306	BMW-I.106	b)-do-labourchargesonly	Each	**123**
701	MAT-02207	BMW-I.107	a)Supplying &fixingGIpipeplug ofsize 12.7 mm dia	Each	**9**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
702	LAB-00307	BMW-I.108	b)-do-labourchargesonly	Each	**1**
703	MAT-02208	BMW-I.109	a)Supplying &fixing19.06mmdiaGIplug	Each	**13**
704	LAB-00308	BMW-I.110	b)-do-labourchargesonly	Each	**1**
705	MAT-02209	BMW-I.111	a)Supplyingand fixing38.1mmdiaof GIplug	Each	**65**
706	LAB-00309	BMW-I.112	b)-do-labourchargesonly	Each	**10**
707	MAT-02210	BMW-I.113	a)Supplying &fixing50.8mmdia ofGIPLUG	Each	**100**
708	LAB-00310	BMW-I.114	b)-do-labourchargesonly	Each	**12**
709	MAT-02211	BMW-I.115	a)Supplying &fixing76.2mmdia ofGIPLUG	Each	**180**
710	LAB-00311	BMW-I.116	b)-do-labourchargesonly	Each	**20**
711	MAT-02212	BMW-I.117	a)Supplying &fixingC.P flange.	Each	**24**
712	LAB-00312	BMW-I.118	b)-do-labourchargesonly	Each	**8**
713	MAT-02213	BMW-I.119	a)Supplying&fixingstainlesssteelsinksize36"x18"(914.4x457.2mm)1mmthick withaccessories	Each	**6782**
714	LAB-00313	BMW-I.120	b)-do-labourchargesonly	Each	**536**
715	MAT-02214	BMW-I.121	a) Supplying & fixing SINGLE BOWL stainless steel sinksize 24"x18"x8 "(609.6 x 457.2 x 203.2mm) 1 mm thick withaccessories	Each	**5345**
716	LAB-00314	BMW-I.122	b)-do-labourchargesonly	Each	**520**
717	MAT-02215	BMW-I.123	a)Supplying&fixingstainlesssteelsinksize20"x18"x8"(508x457.2x203.2mm)1 mmthickwithaccessories	Each	**4860**
718	MAT-02216	BMW-I.124	b)-do-labourchargesonly	Each	**476**
719	MAT-02217	BMW-I.125	Supplying & fixing 4 " x 24 " (101.6x609.6mm) white glazedporcelainchannelfixedinbrickmasonrywhitecementpointing.	Each	**493**
720	MAT-02218	BMW-I.126	Supply&Fixingofsteelsurgicallongelbowactionhandle 12.7mmdiabibcockIndianmakeheavytypeincludingallmaterials	Each	**894**
721	MAT-02219	BMW-I.127	Supply & fixing 2 1/2" (63.5mm) dia Sluice valve ISI markwith 2 Nos. flanges, 8 nos, 3/4" dia nuts & bolts and allnecessarywashersandpackingmaterialsetc.complete	Each	**4896**
722	MAT-02220	BMW-I.128	Supply &fixingporcelainP'trap	Each	**211**
723	MAT-02221	BMW-I.129	Supplying & fixing oval shape basin white(520x410mm)parryorequivalent	Each	**2241**
724	MAT-02222	BMW-I.130	Supply&fixingRCCcover22"diawithnominalreinforcement3"thick andhooks forlifting	Each	**663**
725	MAT-02223	BMW-I.131	Supply&fixingcpspl.Gratingwithframeandcoverof1stquality	Each	**57**
726	MAT-02224	BMW-I.132	Supply &fixing towelrod(CP)of 24"longand3/4"dia	Each	**357**
727	MAT-02225	BMW-I.133	Supply &fixingofLLChandleset1stquality	Each	**71**
728	MAT-02226	BMW-I.134	MechanicalCleaningofwatersumpswithpumps&UVdisinfecting	1000 Lit	**49**
729	MAT-02227	BMW-I.135	Supply &fixing4"diaCPthimblepipe:150mm long	Each	**373**
730	MAT-02228	BMW-I.136	Supply &fixing4"diaCPthimblepipe:220mm long	Each	**558**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
731	MAT-02229	BMW-I.137	Supply &fixing4"diaCPthimblepipe:300mm long	Each	**744**
732	MAT-02230	BMW-I.138	Supply &fixingCPlongbend	Each	**315**
733	MAT-02231	BMW-I.139	Supply&fixingCPshortbend	Each	**158**
734	MAT-02232	BMW-I.140	Supplying&fixing15mmbibtapwithflangeChromeumplatedJaquarmakequeenseries	Each	**1554**
735	MAT-02233	BMW-I.141	Supply & fixing bib cock cum health faucet with 1 m longflexibletubeandwallhook ofJaquarmakequeenserieswith7years warranty Chromeplated	Each	**3938**
736	MAT-02234	BMW-I.142	Supply & fixing bib cock cum health faucet with 1 m longflexibletubeandwallhook ofJaquarmakequeenserieswith7years warranty:Ivorygold	Each	**6622**
737	MAT-02235	BMW-I.143	Supply&fixingpillarcock JaquarmakeQueenserieswith7yearswarranty:Chromeplated	Each	**1632**
738	MAT-02236	BMW-I.144	Supply&fixingpillarcock JaquarmakeQueenserieswith7yearswarranty:Ivorygold	Each	**2786**
739	MAT-02237	BMW-I.145	Supply&fixingAngularstopcockswithwallflangeJaquarmakeQueenserieswith7yearswarranty:Chrome plated	Each	**1611**
740	MAT-02238	BMW-I.146	Supply&fixingAngularstopcockswithwallflangeJaquarmakeQueenseries with7years warranty:Ivory gold	Each	**3119**
741	MAT-02239	BMW-I.147	Supply & fixing Waste coupling 32 mm size full thread with80 mm heightJaquar make with 7 years warranty: Chromeplated	Each	**362**
742	MAT-02240	BMW-I.148	Supply&fixingofBottletrapJaquarmakewith7yearswarranty:Chromeplated	Each	**1540**
743	MAT-02241	BMW-I.149	Supply&fixingofBottletrapJaquarmakewith7yearswarranty:Ivorygold	Each	**2603**
744	MAT-02242	BMW-I.150	Supply&Fixingcopperpipe450mmlongwithnuts&washersJaquarmakewith7yearswarranty:Chromeplated	Each	**378**
745	MAT-02243	BMW-I.151	Supply&Fixingcopperpipe450mmlongwithnuts&washersJaquarmake with 7yearswarranty:Ivory gold	Each	**733**
746	MAT-02244	BMW-I.152	Supply and fixing wall mirror with provision for over headshowerand115mmlongbendpipewithwallflangeJaquarmake queen serieswith 7 yearswarranty:Chromeplated	Each	**4976**
747	MAT-02245	BMW-I.153	Supply and fixing wall mirror with provision for over headshowerand115mmlongbendpipewithwallflangeJaquarmakequeenseries with7yearswarranty:Ivorygold	Each	**7828**
748	MAT-02246	BMW-I.154	Supply & fixing overhead shower rose with revolving jointand 150 mm long swivel shower arm Jaquar make queenseries.with7yearswarranty:Chromeplated	Each	**2309**
749	MAT-02247	BMW-I.155	Supply & fixing overhead shower rose with revolving jointand 150 mm long swivel shower arm Jaquar make queenseries.with7years warranty:IvoryGold	Each	**3383**
750	MAT-02248	BMW-I.156	SupplyandFixingWallMixerwithTelephonicshowerarrangementwithcrutchandflexiblepipeJaquarseriesIvory goldcolourforbath tub.with7 years warranty	Each	**13188**
751	MAT-02249	BMW-I.157	Supply&fixingBathtuboverflowsetcompletewithover	Each	**1606**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
			flow cap, 450 mm Ball chain with rubber plug & union bendwith brass nut Jaquar make, Ivory gold colour. with 7 yearswarranty		
752	MAT-02250	BMW-I.158	Supply & fixing sink cock with regular swinging spout withwall flange chromeplated Jaquar make Queen series with 7yearswarranty	Each	**2307**
753	MAT-02251	BMW-I.159	Supply&fixingsoapdishJaquarmakequeenseries:with7years warranty:Chromeplated	Each	**1514**
754	MAT-02252	BMW-I.160	Supply&fixingsoapdishJaquarmakequeenseries:with7years warranty:IvoryGold	Each	**2222**
755	MAT-02253	BMW-I.161	Supply&fixingoftoiletpaperholderJaquarmakeQueenseries.with7years warranty:Chromeplated	Each	**1220**
756	MAT-02254	BMW-I.162	Supply&fixingoftoiletpaperholderJaquarmakeQueenseries.with7years warranty:IvoryGold	Each	**2147**
757	MAT-02255	BMW-I.163	Supply&FixingofTowelringJaquarmakeQueenserieswith 7years warranty:Chromeplated	Each	**1147**
758	MAT-02256	BMW-I.164	Supply&FixingofTowelringJaquarmakeQueenserieswith 7years warranty:IvoryGold	Each	**1873**
759	MAT-02257	BMW-I.165	Supply&Fixingoftowelcoathook JaquarmakeQueenserieswith7years warranty:Chromeplated	Each	**853**
760	MAT-02258	BMW-I.166	Supply&Fixingoftowelcoathook JaquarmakeQueenserieswith7years warranty:IvoryGold	Each	**1765**
761	MAT-02259	BMW-I.167	Supply&FixingofTowelrod24"JaquarmakeQueenseriesIvory goldcolour with7years warranty	Each	**2927**
762	MAT-02260	BMW-I.168	Supply&FixingofTumblerholderJaquarmakeQueenseries,Ivorygoldcolour with7years warranty	Each	**2051**
763	MAT-02261	BMW-I.169	Supply&fixingofGlassshelf22"JaquarmakeQueenseries,Ivory goldcolour with7years warranty	Each	**4000**
764	MAT-02262	BMW-I.170	Supply & Fixing of Bibcock cum Health Faucet with 1m longtube and wall hook of Jaquar Continental series, ChromeFinish with7yearswarranty	Each	**2902**
765	MAT-02263	BMW-I.171	Supply&FixingofBibcockJaquarContinentalseries,Chrome Finishwith7yearswarranty	Each	**853**
766	MAT-02264	BMW-I.172	Supply&FixingofPillarcockJaquarContinentalseries,Chrome Finishwith7yearswarranty	Each	**1060**
767	MAT-02265	BMW-I.173	Supply&FixingofAngularstopcockwithwallflangeJaquarContinentalseries, Chrome finishwith 7yearswarranty	Each	**788**
768	MAT-02266	BMW-I.174	SupplyfixingofWastecouplingJaquarmake,Chromefinishwith 7years warranty	Each	**343**
769	MAT-02267	BMW-I.175	Supply&FixingofBottleTrapJaquarmake,Chromefinishwith 7years warranty	Each	**1540**
770	MAT-02268	BMW-I.176	Supply&Fixingofcopperpipe450mmlongwithnuts&washersJaquarmake,ChromeFinishwith7yearswarranty	Each	**343**
771	MAT-02269	BMW-I.177	Supply & Fixing of Wall Mixer with provision for overheadshower and 115mm long bend pipe with wall flange JaquarmakeContinentalseries,Chromefinishwith7yearswarranty	Each	**3727**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
772	MAT-02270	BMW-I.178	Supply & Fixing of Exclusive overhead shower with 190mmlong light body shower arm Jaquar make Continental series,Chrome finishwith7yearswarranty	Each	**1592**
773	MAT-02271	BMW-I.179	Supply&Fixingwallmixerwithtelephonicshowerarrangement with crutch and telephone shower with flexibletubeJaquarmakeContinentalseriesChromecolourforb ath tubwith7yearswarranty	Each	**5203**
774	MAT-02272	BMW-I.180	Supply & Fixing bath tub over flow set complete with overflow cap,450mm ball chain with rubber plug 7 Union bendwith brass nuts Jaquar make, Chrome colour with 7 yearswarranty	Each	**1215**
775	MAT-02273	BMW-I.181	Supply & Fixing Sink cock with regular swinging spout withflange chrome plated Jaquar make Continental series with 7yearswarranty	Each	**1500**
776	MAT-02274	BMW-I.182	Supply&FixingsoapdishJaquarmakeContinentalseries,Chro me Finishwith7yearswarranty	Each	**1181**
777	MAT-02275	BMW-I.183	Supply&FixingofToiletpaperholderJaquarmakeContinentalse ries, Chrome finishwith 7yearswarranty	Each	**788**
778	MAT-02276	BMW-I.184	Supply&FixingofTowelRingJaquarmakeContinentalseries,C hromefinishwith7yearswarranty	Each	**907**
779	MAT-02277	BMW-I.185	Supply&FixingDoublecoathookJaquarmakeContinentalserie s,Chromefinishwith7yearswarranty	Each	**677**
780	MAT-02278	BMW-I.186	Supply&Fixingoftowelrail24"JaquarmakeContinentalseries,C hromefinishwith7yearswarranty	Each	**1464**
781	MAT-02279	BMW-I.187	Supply&FixingofTumblerholderJaquarmakeContinentalserie s,Chromefinishwith7yearswarranty	Each	**987**
782	MAT-02280	BMW-I.188	Supply&FixingofGlassshelf22"JaquarmakeContinentalseries ,Chromefinishwith7yearswarranty	Each	**1941**
783	MAT-02281	BMW-I.189	Supply & Fixing of Bibcock cum Health Faucet with 1m longtubeandwallhookofJaquarFlorentine(Quarterturn)series, ChromeFinish with7yearswarranty	Each	**3472**
784	MAT-02282	BMW-I.190	Supply&FixingofBibcockJaquarFlorentine(Quarterturn)series,C hromeFinish with 7yearswarranty	Each	**1171**
785	MAT-02283	BMW-I.191	Supply&FixingofPillarcockJaquarFlorentine(Quarterturn)s eries,ChromeFinishwith 7yearswarranty	Each	**1171**
786	MAT-02284	BMW-I.192	Supply & Fixing of Angular stopcock with wall flange JaquarFlorentine(Quarter turn)series, Chrome finish with 7 yearswarranty	Each	**1152**
787	MAT-02285	BMW-I.193	Supply&FixingofBottleTrapJaquarmake,Chromefinishwith 7years warranty	Each	**1540**
788	MAT-02286	BMW-I.194	Supply & Fixing of Wall Mixer with provision for overheadshower and 115mm long bend pipe with wall flange Jaquarmake Florentine(Quarter turn) series, Chrome finish with 7yearswarranty	Each	**4497**
789	MAT-02287	BMW-I.195	Supply&Fixingwallmixerwithtelephonicshowerarrangement with crutch and telephone shower with flexibletube Jaquar make Florentine(Quarter turn) series Chromecolourforbathtubwith7years warranty	Each	**6777**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
790	MAT-02288	BMW-I.196	Supply & Fixing Sink cock with regular swinging spout withflange chrome plated Jaquar make Florentine(Quarter turn)serieswith7yearswarranty	Each	**1796**
791	MAT-02289	BMW-I.197	Supply&FixingofRoseshowerwithrevolvingballjoint&115mm longshowerarmwith7yearswarranty	Each	**1908**
792	MAT-02290	BMW-I.198	Supply & Fixing of Jaquar make chrome plated Metro poleflush valveconcealed type with cover plate 40mm size with 7yearswarranty	Each	**3342**
793	MAT-02291	BMW-I.199	Supply&FixingofJaquarmakeSensotronicsensorfaucetforwas hbasin,Chrome platedwith7years warranty	Each	**13126**
794	MAT-02292	BMW-I.200	Supply & fixing of Jaquar make Sensotronic concealed typeflushing valve for urinal complete set with installation boxwithcontrolcock,Chrome platedwith 7yearswarranty	Each	**13126**
795	MAT-02293	BMW-I.201	Supply&fixingofJaquarmakeAutoclosingsystempillarcockfor washbasin,Chromeplatedwith 7yearswarranty	Each	**2175**
796	MAT-02294	BMW-I.202	Supply&FixingofJaquarmakeAutoClosingsystemBibcock,Chro meplatedwith7years warranty	Each	**2281**
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	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
808	MAT-02306	BMW-I.214	ITEM DELETED		
809	MAT-02307	BMW-I.215	S&FPolyethylene-Aluminium-Polyethylene(PE-AL-PE)composite pressure pipes conforming to IS-15450-2004 withUV stabilized, carbon black for hot & cold water supply,capabletowithstandpressureupto80Cincludingallspecial composite fittings, plastic & brass blend inserts forelbows, tees, reducers, couplers, connectors etc completeincludingexcavatingtrenchesupto1.0Mdeeplayingpipes, fixing in position, testing, refilling excavated earth andcommissioning etc16mmODpipe	1RM	**165**
810	MAT-02308	BMW-I.216	S&FPolyethylene-Aluminium-Polyethylene(PE-AL-PE)composite pressure pipes conforming to IS-15450-2004 withUV stabilized, carbon black for hot & cold watersupply,capabletowithstandpressureupto80CincludingallspecialIspecial composite fittings, plastic & brass blend inserts forelbows, tees, reducers, couplers, connectors etc completeincludingexcavatingtrenchesupto1.0Mdeeplayingpipes, fixing in position, testing, refilling excavated earth andcommissioning etc**20mmODpipe**	1RM	**195**
811	MAT-02309	BMW-I.217	S&FPolyethylene-Aluminium-Polyethylene(PE-AL-PE)composite pressure pipes conforming to IS-15450-2004 withUV stabilized, carbon black forhot & cold water supply,capabletowithstandpressureupto80Cincludingallspecial composite fittings, plastic & brass blend inserts forelbows, tees, reducers, couplers, connectors etc completeincludingexcavatingtrenchesupto1.0Mdeeplayingpipes, fixing in position, testing, refilling excavated earth andcommissioning etc**25mmODpipe**	1RM	**237**
812	MAT-02310	BMW-I.218	S&FPolyethylene-Aluminium-Polyethylene(PE-AL-PE)composite pressure pipes conforming to IS-15450-2004 withUV stabilized, carbon black for hot & cold water supply,capabletowithstandpressureupto80Cincludingallspecial composite fittings, plastic & brass blend inserts forelbows, tees, reducers, couplers, connectors etc completeincludingexcavatingtrenchesupto1.0Mdeeplayingpipes, fixing in position, testing, refilling excavated earth andcommissioning etc**32mmODpipe**	1RM	**306**
813	MAT-02311	BMW-I.219	S&FPolyethylene-Aluminium-Polyethylene(PE-AL-PE)composite pressure pipes conforming to IS-15450-2004 withUV stabilized, carbon black for hot & cold water supply,capabletowithstandpressureupto80CincludingallspecialcompositefittingS,plastic&brassblendinsertsfor elbows, tees, reducers, couplers, connectors etc completeincludingexcavatingtrenchesupto1.0Mdeeplayingpipes, fixing in position, testing, refilling excavated earth andcommissioning etc**40mmODpipe**	1RM	**392**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
			SupplyandFixingofPremiummakeCPVCPipesandFittings to meet the requirement of ASTM-D 2846 and areproduced in CTS (Copper Tube Sizes 1/2" ton 2" AshirvadFlowgurard SDR 11 and SDR 13.5 pipes are made fromidentialCPVCcompoundshavingthesamephysicalProperties forHot and ColdWater(IS15778:2007)		
814	MAT-02312	BMW-I.220	15.90mmODPipe -SDR 13.5	1RM	**56**
815	MAT-02313	BMW-I.221	22.20mmODPipe -SDR 13.5	1RM	**89**
816	MAT-02314	BMW-I.222	28.60mmODPipe -SDR 13.5	1RM	**129**
817	MAT-02315	BMW-I.223	34.90mmODPipe -SDR 13.5	1RM	**202**
818	MAT-02316	BMW-I.224	41.30mmODPipe -SDR 13.5	1RM	**279**
819	MAT-02317	BMW-I.225	54mmODPipe-SDR13.5	1RM	**458**
820	MAT-02318	BMW-I.226	15.90mmODPipe -SDR 11	1RM	**64**
821	MAT-02319	BMW-I.227	22.20mmODPipe -SDR 11	1RM	**97**
822	MAT-02320	BMW-I.228	28.60mmODPipe -SDR 11	1RM	**151**
823	MAT-02321	BMW-I.229	34.90mmODPipe -SDR 11	1RM	**240**
824	MAT-02322	BMW-I.230	41.30mmODPipe -SDR 11	1RM	**329**
825	MAT-02323	BMW-I.231	54mmODPipe-SDR11	1RM	**506**
826	MAT-02324	BMW-I.232	Supplyof20mmx1.9mmPN10/PPRPipeconformingtoDINStandards8077/8078 conformingtoIS15801	1RM	**43**
827	MAT-02325	BMW-I.233	Supplyof25mmx2.3mmPN10/PPRPipeconformingtoDINStandards8077/8078 conformingtoIS15801	1RM	**64**
828	MAT-02326	BMW-I.234	Supplyof32mmx2.9mmPN10/PPRPipeconformingtoDINStandards8077/8079 conformingtoIS15801	1RM	**101**
829	MAT-02327	BMW-I.235	Supplyof40mmx3.7mmPN10/PPRPipeconformingtoDINStandards8077/8079 conformingtoIS15801	1RM	**158**
830	MAT-02328	BMW-I.236	Supplyof50mmx4.6mmPN10/PPRPipeconformingtoDINStandards8077/8080 conformingtoIS15801	1RM	**283**
831	MAT-02329	BMW-I.237	Supplyof63mmx5.8mmPN10/PPRPipeconformingtoDINStandards8077/8081 conformingtoIS15801	1RM	**444**
832	MAT-02330	BMW-I.238	Supplyof75mmx6.8mmPN10/PPRPipeconformingtoDINStandards8077/8082 conformingtoIS15801	1RM	**618**
833	MAT-02331	BMW-I.239	Supplyof90mmx8.2mmPN10/PPRPipeconformingtoDINStandards8077/8083 conformingtoIS15801	1RM	**848**
834	MAT-02332	BMW-I.240	Supplyof110mmx10mmPN10/PPRPipeconformingtoDINStandards8077/8084 conformingtoIS15801	1RM	**1256**
835	MAT-02333	BMW-I.241	Supplyof20mmx2.8mmPN16/PPRPipeconformingtoDINStandards8077/8078 conformingtoIS15801	1RM	**58**
836	MAT-02334	BMW-I.242	Supplyof25mmx3.5mmPN16/PPRPipeconformingtoDINStandards8077/8078 conformingtoIS15801	1RM	**89**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
837	MAT-02335	BMW-I.243	Supplyof32mmx4.4mmPN16/PPRPipeconformingtoDINStandards8077/8079 conformingtoIS15801	1RM	**144**
838	MAT-02336	BMW-I.244	Supplyof40mmx5.5mmPN16/PPRPipeconformingtoDINStandards8077/8079 conformingtoIS15801	1RM	**220**
839	MAT-02337	BMW-I.245	Supplyof50mmx6.9mmPN16/PPRPipeconformingtoDINStandards8077/8080 conformingtoIS15801	1RM	**395**
840	MAT-02338	BMW-I.246	Supplyof63mmx8.6mmPN16/PPRPipeconformingtoDINStandards8077/8081conforming toIS15801	1RM	**623**
841	MAT-02339	BMW-I.247	Supplyof75mmx10.3mmPN16/PPRPipeconformingtoDINStandards8077/8082 conformingtoIS15801	1RM	**880**
842	MAT-02340	BMW-I.248	Supplyof90mmx12.3mmPN16/PPRPipeconformingtoDINStandards8077/8083 conformingtoIS15801	1RM	**1254**
843	MAT-02341	BMW-I.249	Supplyof110mmx15.1mmPN16/PPRPipeconformingtoDINStandards8077/8084 conformingtoIS15801	1RM	**1879**
844	MAT-02342	BMW-I.250	Supplyof20mmx3.4mmPN20/PPRPipeconformingtoDINStandards8077/8078 conformingtoIS15801	1RM	**68**
845	MAT-02343	BMW-I.251	Supplyof25mmx4.2mmPN20/PPRPipeconformingtoDINStandards8077/8078 conformingtoIS15801	1RM	**104**
846	MAT-02344	BMW-I.252	Supplyof32mmx5.4mmPN20/PPRPipeconformingtoDINStandards8077/8079 conformingtoIS15801	1RM	**167**
847	MAT-02345	BMW-I.253	Supplyof40mmx6.7mmPN20/PPRPipeconformingtoDINStandards8077/8079 conformingtoIS15801	1RM	**257**
848	MAT-02346	BMW-I.254	Supplyof50mmx8.3mmPN20/PPRPipeconformingtoDINStandards8077/8080 conformingtoIS15801	1RM	**457**
849	MAT-02347	BMW-I.255	Supplyof63mmx10.5mmPN20/PPRPipeconformingtoDINStandards8077/8081 conformingtoIS15801	1RM	**721**
850	MAT-02348	BMW-I.256	Supplyof75mmx12.5mmPN20/PPRPipeconformingtoDINStandards8077/8082 conformingtoIS15801	1RM	**1023**
851	MAT-02349	BMW-I.257	Supplyof90mmx15mmPN20/PPRPipeconformingtoDINStandards8077/8083	1RM	**1390**
852	MAT-02350	BMW-I.258	Supplyof110mmx18.3mmPN20/PPRPipeconformingtoDINStandards8077/8084 conformingtoIS15801	1RM	**2189**
853	MAT-02351	BMW-I.259	Supplyof20mmPPRSocketconformingtoDINStandards8077/8084	1RM	**9**
854	MAT-02352	BMW-I.260	Supplyof25mmPPRSocketconformingtoDINStandards8077/8085	1RM	**14**
855	MAT-02353	BMW-I.261	Supplyof32mmPPRSocketconformingtoDINStandards8077/8086	1RM	**19**
856	MAT-02354	BMW-I.262	Supplyof40mmPPRSocketconformingtoDINStandards8077/8087	1RM	**31**
857	MAT-02355	BMW-I.263	Supplyof50mmPPRSocketconformingtoDINStandards8077/8088	1RM	**61**
858	MAT-02356	BMW-I.264	Supplyof63mmPPRSocketconformingtoDINStandards8077/8089	1RM	**118**
859	MAT-02357	BMW-I.265	Supplyof75mmPPRSocketconformingtoDINStandards8077/8090	1RM	**180**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
860	MAT-02358	BMW-I.266	Supplyof90mmPPRSocketconformingtoDINStandards8077/8091	1RM	**344**
861	MAT-02359	BMW-I.267	Supply of 110mm PPR Socket conforming to DIN Standards8077/8092	1RM	**613**
862	MAT-02360	BMW-I.268	Supplyof32mmPPRCoreFlangeconformingtoDINStandards8077/8086	Each	**37**
863	MAT-02361	BMW-I.269	Supplyof40mmPPRCoreFlangeconformingtoDINStandards8077/8087	Each	**59**
864	MAT-02362	BMW-I.270	Supplyof50mmPPRCoreFlangeconformingtoDINStandards8077/8088	Each	**77**
865	MAT-02363	BMW-I.271	Supplyof63mmPPRCoreFlangeconformingtoDINStandards8077/8089	Each	**122**
866	MAT-02364	BMW-I.272	Supplyof75mmPPRCoreFlangeconformingtoDINStandards8077/8090	Each	**141**
867	MAT-02365	BMW-I.273	Supplyof90mmPPRCoreFlangeconformingtoDINStandards8077/8091	Each	**362**
868	MAT-02366	BMW-I.274	Supplyof110mmPPRCoreFlangeconformingtoDINStandards8077/8092	Each	**468**
869	MAT-02367	BMW-I.275	Supplyof20mmPPRElbowconformingtoDINStandards8077/8084	Each	**16**
870	MAT-02368	BMW-I.276	Supplyof25mmPPRElbowconformingtoDINStandards8077/8085	Each	**20**
871	MAT-02369	BMW-I.277	Supplyof32mmPPRElbowconformingtoDINStandards8077/8086	Each	**37**
872	MAT-02370	BMW-I.278	Supplyof40mmPPRElbowconformingtoDINStandards8077/8087	Each	**66**
873	MAT-02371	BMW-I.279	Supplyof50mmPPRElbowconformingtoDINStandards8077/8088	Each	**124**
874	MAT-02372	BMW-I.280	Supplyof63mmPPRElbowconformingtoDINStandards8077/8089	Each	**241**
875	MAT-02373	BMW-I.281	Supplyof75mmPPRElbowconformingtoDINStandards8077/8090	Each	**390**
876	MAT-02374	BMW-I.282	Supplyof90mmPPRElbowconformingtoDINStandards8077/8091	Each	**726**
877	MAT-02375	BMW-I.283	Supplyof110mmPPRElbowconformingtoDINStandards8077/8092	Each	**1347**
878	MAT-02376	BMW-I.284	Supplyof20mmPPRTeeconformingtoDINStandards8077/8084	Each	**15**
879	MAT-02377	BMW-I.285	Supplyof25mmPPRTeeconformingtoDINStandards8077/8085	Each	**25**
880	MAT-02378	BMW-I.286	Supplyof32mmPPRTeeconformingtoDINStandards8077/8086	Each	**45**
881	MAT-02379	BMW-I.287	Supplyof40mmPPRTeeconformingtoDINStandards8077/8087	Each	**79**
882	MAT-02380	BMW-I.288	Supplyof50mmPPRTeeconformingtoDINStandards8077/8088	Each	**140**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
883	MAT-02381	BMW-I.289	Supplyof63mmPPRTeeconformingtoDINStandards8077/8089	Each	**286**
884	MAT-02382	BMW-I.290	Supplyof75mmPPRTeeconformingtoDINStandards8077/8090	Each	**560**
885	MAT-02383	BMW-I.291	Supplyof90mmPPRTeeconformingtoDINStandards8077/8091	Each	**812**
886	MAT-02384	BMW-I.292	Supplyof110mmPPRTeeconformingtoDINStandards8077/8092	Each	**1407**
887	MAT-02385	BMW-I.293	Supplyof20mmPPREndCapconformingtoDINStandards8077/8084	Each	**6**
888	MAT-02386	BMW-I.294	Supplyof25mmPPREndCapconformingtoDINStandards8077/8085	Each	**9**
889	MAT-02387	BMW-I.295	Supplyof32mmPPREndCapconformingtoDINStandards8077/8086	Each	**19**
890	MAT-02388	BMW-I.296	Supplyof40mmPPREndCapconformingtoDINStandards8077/8087	Each	**31**
891	MAT-02389	BMW-I.297	Supplyof50mmPPREndCapconformingtoDINStandards8077/8088	Each	**55**
892	MAT-02390	BMW-I.298	Supplyof63mmPPREndCapconformingtoDINStandards8077/8089	Each	**118**
893	MAT-02391	BMW-I.299	Supplyof75mmPPREndCapconformingtoDINStandards8077/8090	Each	**198**
894	MAT-02392	BMW-I.300	Supplyof90mmPPREndCapconformingtoDINStandards8077/8091	Each	**315**
895	MAT-02393	BMW-I.301	Supplyof110mmPPREndCapconformingtoDINStandards8077/8092	Each	**623**
896	MAT-02394	BMW-I.302	Supplyof25mmx20mmPPRReducerconformingtoDINStandards8077/8092	Each	**11**
897	MAT-02395	BMW-I.303	Supplyof32mmx25mmPPRReducerconformingtoDINStandards8077/8092	Each	**20**
898	MAT-02396	BMW-I.304	Supplyof32mmx20mmPPRReducerconformingtoDINStandards8077/8092	Each	**19**
899	MAT-02397	BMW-I.305	Supplyof40mmx32mmPPRReducerconformingtoDINStandards8077/8092	Each	**32**
900	MAT-02398	BMW-I.306	Supplyof40mmx25mmPPRReducerconformingtoDINStandards8077/8092	Each	**31**
901	MAT-02399	BMW-I.307	Supplyof40mmx20mmPPRReducerconformingtoDINStandards8077/8092	Each	**31**
902	MAT-02400	BMW-I.308	Supplyof50mmx20mmPPRReducerconformingtoDINStandards8077/8092	Each	**48**
903	MAT-02401	BMW-I.309	Supplyof50mmx25mmPPRReducerconformingtoDINStandards8077/8092	Each	**49**
904	MAT-02402	BMW-I.310	Supplyof50mmx32mmPPRReducerconformingtoDINStandards8077/8092	Each	**49**
905	MAT-02403	BMW-I.311	Supplyof50mmx40mmPPRReducerconformingtoDINStandards8077/8092	Each	**50**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
906	MAT-02404	BMW-I.312	Supplyof63mmx20mmPPRReducerconformingtoDINStandards8077/8092	Each	**109**
907	MAT-02405	BMW-I.313	Supplyof63mmx25mmPPRReducerconformingtoDINStandards8077/8092	Each	**109**
908	MAT-02406	BMW-I.314	Supplyof63mmx32mmPPRReducerconformingtoDINStandards8077/8092	Each	**110**
909	MAT-02407	BMW-I.315	Supplyof63mmx40mmPPRReducerconformingtoDINStandards8077/8092	Each	**111**
910	MAT-02408	BMW-I.316	Supplyof63mmx50mmPPRReducerconformingtoDINStandards8077/8092	Each	**112**
911	MAT-02409	BMW-I.317	Supplyof75mmx40mmPPRReducerconformingtoDINStandards8077/8092	Each	**162**
912	MAT-02410	BMW-I.318	Supplyof75mmx50mmPPRReducerconformingtoDINStandards8077/8092	Each	**163**
913	MAT-02411	BMW-I.319	Supplyof75mmx63mmPPRReducerconformingtoDINStandards8077/8092	Each	**207**
914	MAT-02412	BMW-I.320	Supplyof90mmx63mmPPRReducerconformingtoDINStandards8077/8092	Each	**395**
915	MAT-02413	BMW-I.321	Supplyof90mmx75mmPPRReducerconformingtoDINStandards8077/8092	Each	**419**
916	MAT-02414	BMW-I.322	Supplyof110mmx63mmPPRReducerconformingtoDINStandards8077/8092	Each	**528**
917	MAT-02415	BMW-I.323	Supplyof110mmx75mmPPRReducerconformingtoDINStandards8077/8092	Each	**615**
918	MAT-02416	BMW-I.324	Supplyof110mmx90mmPPRReducerconformingtoDINStandards8077/8092	Each	**662**
919	MAT-02417	BMW-I.325	Supplyof25mmx20mmx25mmPPRReducerTeeconforming toDINStandards 8077/8092	Each	**31**
920	MAT-02418	BMW-I.326	Supplyof32mmx25mmx32mmPPRReducerTeeconforming toDINStandards 8077/8092	Each	**54**
921	MAT-02419	BMW-I.327	Supplyof32mmx20mmx32mmPPRReducerTeeconforming toDINStandards 8077/8092	Each	**54**
922	MAT-02420	BMW-I.328	Supplyof40mmx20mmx40mmPPRReducerTeeconforming toDINStandards 8077/8092	Each	**89**
923	MAT-02421	BMW-I.329	Supplyof40mmx25mmx40mmPPRReducerTeeconforming toDINStandards 8077/8092	Each	**90**
924	MAT-02422	BMW-I.330	Supplyof40mmx32mmx40mmPPRReducerTeeconforming toDINStandards 8077/8092	Each	**93**
925	MAT-02423	BMW-I.331	Supplyof50mmx20mmx50mmPPRReducerTeeconforming toDINStandards 8077/8092	Each	**129**
926	MAT-02424	BMW-I.332	Supplyof50mmx25mmx50mmPPRReducerTeeconforming toDIN Standards 8077/8092	Each	**130**
927	MAT-02425	BMW-I.333	Supplyof50mmx32mmx50mmPPRReducerTeeconforming toDINStandards 8077/8092	Each	**134**
928	MAT-02426	BMW-I.334	Supplyof50mmx40mmx50mmPPRReducerTeeconforming toDINStandards8077/8092	Each	**135**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
929	MAT-02427	BMW-I.335	Supplyof63mmx20mmx63mmPPRReducerTeeconforming toDINStandards 8077/8092	Each	**372**
930	MAT-02428	BMW-I.336	Supplyof63mmx25mmx63mmPPRReducerTeeconforming toDINStandards 8077/8092	Each	**374**
931	MAT-02429	BMW-I.337	Supplyof63mmx32mmx63mmPPRReducerTeeconforming toDINStandards 8077/8092	Each	**380**
932	MAT-02430	BMW-I.338	Supplyof63mmx40mmx63mmPPRReducerTeeconforming toDINStandards 8077/8092	Each	**386**
933	MAT-02431	BMW-I.339	Supplyof63mmx50mmx63mmPPRReducerTeeconforming toDINStandards 8077/8092	Each	**392**
934	MAT-02432	BMW-I.340	Supplyof75mmx50mmx75mmPPRReducerTeeconforming toDINStandards 8077/8092	Each	**526**
935	MAT-02433	BMW-I.341	Supplyof75mmx63mmx75mmPPRReducerTeeconforming toDINStandards 8077/8092	Each	**535**
936	MAT-02434	BMW-I.342	Supplyof90mmx50mmx90mmPPRReducerTeeconforming toDINStandards 8077/8092	Each	**708**
937	MAT-02435	BMW-I.343	Supplyof90mmx63mmx90mmPPRReducerTeeconforming toDINStandards 8077/8092	Each	**753**
938	MAT-02436	BMW-I.344	Supplyof110mmx75mmx110mmPPRReducerTeeconformin g toDINStandards 8077/8092	Each	**1284**
939	MAT-02437	BMW-I.345	Supplyof110mmx90mmx110mmPPRReducerTeeconformin g toDINStandards 8077/8092	Each	**1335**
940	MAT-02438	BMW-I.346	Supplyof20mmx½”PPRFemaleThreadedAdaptorconforming toDINStandards 8077/8092	Each	**99**
941	MAT-02439	BMW-I.347	Supplyof25mmx½”PPRFemaleThreadedAdaptorconforming toDINStandards 8077/8092	Each	**101**
942	MAT-02440	BMW-I.348	Supplyof25mmx¾”PPRFemaleThreadedAdaptorconforming toDINStandards 8077/8092	Each	**177**
943	MAT-02441	BMW-I.349	Supplyof32mmx½”PPRFemaleThreadedAdaptorconforming toDINStandards 8077/8092	Each	**181**
944	MAT-02442	BMW-I.350	Supplyof32mmx¾”PPRFemaleThreadedAdaptorconforming toDINStandards 8077/8092	Each	**186**
945	MAT-02443	BMW-I.351	Supplyof32mmx1"PPRFemaleThreadedAdaptorconforming toDINStandards 8077/8092	Each	**288**
946	MAT-02444	BMW-I.352	Supplyof40mmx1¼”PPRFemaleThreadedAdaptorconforming toDINStandards 8077/8092	Each	**426**
947	MAT-02445	BMW-I.353	Supplyof50mmx1½”PPRFemaleThreadedAdaptorconforming toDINStandards 8077/8092	Each	**595**
948	MAT-02446	BMW-I.354	Supplyof63mmx2"PPRFemaleThreadedAdaptorconforming toDINStandards 8077/8092	Each	**791**
949	MAT-02447	BMW-I.355	Supplyof75mmx2½”PPRFemaleThreadedAdaptorconforming toDINStandards 8077/8092	Each	**1526**
950	MAT-02448	BMW-I.356	Supplyof20mmx½”PPRMaleThreadedAdaptorconforming toDINStandards 8077/8092	Each	**153**
951	MAT-02449	BMW-I.357	Supplyof25mmx½”PPRMaleThreadedAdaptorconforming toDINStandards 8077/8092	Each	**158**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
952	MAT-02450	BMW-I.358	Supplyof25mmx¾”PPRMaleThreadedAdaptorconforming toDINStandards 8077/8092	Each	**231**
953	MAT-02451	BMW-I.359	Supplyof32mmx¾”PPRMaleThreadedAdaptorconforming toDIN Standards 8077/8092	Each	**241**
954	MAT-02452	BMW-I.360	Supplyof32mmx1"PPRMaleThreadedAdaptorconforming toDINStandards 8077/8092	Each	**448**
955	MAT-02453	BMW-I.361	Supplyof40mmx1¼”PPRMaleThreadedAdaptorconforming toDINStandards8077/8092	Each	**525**
956	MAT-02454	BMW-I.362	Supplyof50mmx1½”PPRMaleThreadedAdaptorconforming toDINStandards 8077/8092	Each	**734**
957	MAT-02455	BMW-I.363	Supplyof63mmx2"PPRMaleThreadedAdaptorconforming toDINStandards 8077/8092	Each	**1129**
958	MAT-02456	BMW-I.364	Supplyof75mmx2½”PPRMaleThreadedAdaptorconforming toDINStandards 8077/8092	Each	**1806**
959	MAT-02457	BMW-I.365	Supplyof20mmx½”PPRFemaleThreadedElbowconforming toDINStandards 8077/8092	Each	**106**
960	MAT-02458	BMW-I.366	Supplyof25mmx½”PPRFemaleThreadedElbowconforming toDINStandards 8077/8092	Each	**110**
961	MAT-02459	BMW-I.367	Supplyof25mmx¾”PPRFemaleThreadedElbowconforming toDINStandards 8077/8092	Each	**170**
962	MAT-02460	BMW-I.368	Supplyof32mmx½”PPRFemaleThreadedElbowconforming toDINStandards 8077/8092	Each	**163**
963	MAT-02461	BMW-I.369	Supplyof32mmx¾”PPRFemaleThreadedElbowconforming toDINStandards 8077/8092	Each	**190**
964	MAT-02462	BMW-I.370	Supplyof32mmx1"PPRFemaleThreadedElbowconforming toDINStandards 8077/8092	Each	**318**
965	MAT-02463	BMW-I.371	Supplyof20mmx½”PPRMaleThreadedElbowconforming toDINStandards 8077/8092	Each	**158**
966	MAT-02464	BMW-I.372	Supplyof25mmx½”PPRMaleThreadedElbowconforming toDINStandards 8077/8092	Each	**174**
967	MAT-02465	BMW-I.373	Supplyof25mmx¾”PPRMaleThreadedElbowconforming toDINStandards 8077/8092	Each	**230**
968	MAT-02466	BMW-I.374	Supplyof32mmx½”PPRMaleThreadedElbowconforming toDINStandards 8077/8092	Each	**220**
969	MAT-02467	BMW-I.375	Supplyof32mmx1"PPRMaleThreadedElbowconformingtoDINStandards 8077/8092	Each	**476**
970	MAT-02468	BMW-I.376	Supplyof20mmx½”PPRFemaleThreadedTeeconforming toDINStandards 8077/8092	Each	**102**
971	MAT-02469	BMW-I.377	Supplyof25mmx½”PPRFemaleThreadedTeeconforming toDINStandards 8077/8092	Each	**112**
972	MAT-02470	BMW-I.378	Supplyof25mmx¾”PPRFemaleThreadedTeeconforming toDIN Standards 8077/8092	Each	**186**
973	MAT-02471	BMW-I.379	Supplyof32mmx½”PPRFemaleThreadedTeeconforming toDINStandards 8077/8092	Each	**197**
974	MAT-02472	BMW-I.380	Supplyof32mmx¾”PPRFemaleThreadedTeeconforming toDINStandards8077/8092	Each	**220**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
975	MAT-02473	BMW-I.381	Supplyof32mmx1"PPRFemaleThreadedTeeconforming toDINStandards 8077/8092	Each	**310**
976	MAT-02474	BMW-I.382	Supplyof20mm x½" PPR Male Threaded TeeconformingtoDINStandards 8077/8092	Each	**159**
977	MAT-02475	BMW-I.383	Supplyof25mmx½"PPRMaleThreadedTeeconformingtoDIN Standards 8077/8092	Each	**170**
978	MAT-02476	BMW-I.384	Supplyof25mmx¾"PPRMaleThreadedTeeconformingtoDIN Standards 8077/8092	Each	**243**
979	MAT-02477	BMW-I.385	Supplyof32mmx½"PPRMaleThreadedTeeconformingtoDIN Standards 8077/8092	Each	**250**
980	MAT-02478	BMW-I.386	Supply of 32mm x¾"PPR Male Threaded Tee conforming toDINStandards8077/8092	Each	**263**
981	MAT-02479	BMW-I.387	Supplyof32mmx1"PPRMaleThreadedTeeconformingtoDINS tandards 8077/8092	Each	**486**
982	MAT-02480	BMW-I.388	Supplyof20mmx½"PPRFemaleThreadedUnionconforming toDINStandards 8077/8092	Each	**410**
983	MAT-02481	BMW-I.389	Supply of 25mm x¾"PPR Female Threaded Unionconforming toDINStandards 8077/8092	Each	**615**
984	MAT-02482	BMW-I.390	Supply of 32mm x1"PPR Female Threaded Unionconforming toDINStandards 8077/8092	Each	**821**
985	MAT-02483	BMW-I.391	Supplyof40mmx1¼"PPRFemaleThreadedUnionconforming toDIN Standards 8077/8092	Each	**1150**
986	MAT-02484	BMW-I.392	Supplyof50mmx1½"PPRFemaleThreadedUnionconforming toDINStandards 8077/8092	Each	**1848**
987	MAT-02485	BMW-I.393	Supplyof63mmx2"PPRFemaleThreadedUnionconforming toDIN Standards 8077/8092	Each	**2935**
988	MAT-02486	BMW-I.394	Supplyof20mmx½"PPRMaleThreadedUnionconforming toDINStandards 8077/8092	Each	**470**
989	MAT-02487	BMW-I.395	Supplyof25mmx¾"PPRMaleThreadedUnionconformingtoDI NStandards8077/8092	Each	**625**
990	MAT-02488	BMW-I.396	Supplyof32mmx1"PPRMaleThreadedUnionconformingtoDIN Standards 8077/8092	Each	**821**
991	MAT-02489	BMW-I.397	Supply of 40mm x1¼"PPR Male Threaded Unionconforming toDINStandards 8077/8092	Each	**1025**
992	MAT-02490	BMW-I.398	Supplyof50mmx1½"PPRMaleThreadedUnionconforming toDINStandards 8077/8092	Each	**1950**
993	MAT-02491	BMW-I.399	Supply of 63mm x 2" PPR Male Threaded Union conformingtoDINStandards 8077/8092	Each	**3285**
994	MAT-02492	BMW-I.400	Supplyof20mmPPRUnionconformingtoDINStandards8077/8 092	Each	**89**
995	MAT-02493	BMW-I.401	Supplyof25mmPPRUnionconformingtoDINStandards8077/8 092	Each	**105**
996	MAT-02494	BMW-I.402	Supplyof32mmPPRUnionconformingtoDINStandards8077/8 092	Each	**173**
997	MAT-02495	BMW-I.403	Supplyof20mmPPRBallValveconformingtoDINStandards8077/ 8092	Each	**163**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRate for SoR 2021-22(Rs.)
998	MAT-02496	BMW-I.404	Supplyof25mmPPRStand Ball Valve conforming to DIN ards8077/8092	Each	**215**
999	MAT-02497	BMW-I.405	Supplyof32mmPPRStand Ball Valve conforming to DIN ards8077/8092	Each	**227**
1000	MAT-02498	BMW-I.406	Supplyof40mmPPRStand Ball Valve conforming to DIN ards8077/8092	Each	**463**
1001	MAT-02499	BMW-I.407	Supplyof50mmPPRStand Ball Valve conforming to DIN ards8077/8092	Each	**540**
1002	MAT-02500	BMW-I.408	Supplyof63mmPPRStand Ball Valve conforming to DIN ards8077/8092	Each	**874**
1003	MAT-02501	BMW-I.409	Supplyof75mmPPRStand Ball Valve conforming to DIN ards8077/8092	Each	**1437**
1004	MAT-02502	BMW-I.410	Supplyof90mmPPRStand Ball Valve conforming to DIN ards8077/8092	Each	**2054**
1005	MAT-02503	BMW-I.411	Supplyof20mmPPRClampconformingtoDINStandards8077/ 8092	Each	**9**
1006	MAT-02504	BMW-I.412	Supplyof25mmPPRClampconformingtoDINStandards8077/ 8092	Each	**12**
1007	MAT-02505	BMW-I.413	Supplyof32mmPPRClampconformingtoDINStandards8077/ 8092	Each	**15**
1008	MAT-02506	BMW-I.414	Supplyof40mmPPRClampconformingtoDINStandards8077/ 8092	Each	**16**
1009	LAB-00315	BMW-I.415	Labourchargesforlaying,joining,welding,fixingandcommissio ning the PPR pipes including all specials such ascouplers/ bends/ tees etc including fixing necessary fittingslike bends, plugs, couplers, junctions, tees, etc with weldingthejointasperstandard practice-upto 40 mmdia	1RM	**33**
1010	LAB-00316	BMW-I.416	Labourchargesforlaying,joining,welding,fixingandcommissio ning the PPR pipes including all specials such ascouplers/ bends/ tees etc including fixing necessary fittingslike bends, plugs, couplers, junctions, tees, etc with weldingthejointasper standardpractice- above40mmdia	1RM	**56**

	NOTE	
1		**Alltheitemstobeusedonworkareoffirstquality&ISI andas approvedby theEngineerInchargeof thework.**
2		**Ratesgivenaboveare:**
		a)Rateforfinisheditemofwork
		b)Labourchargesonly
3		**RATES**
		SupplyRatesfor allthematerialsarebasedonmarketratesexcludingGST.
4		**LABOURLabourchargesareincreasedbasedonproposalsandmarket rates**
5		**Colouredporcelainitems:50%extramaybe allowedonbasic costofwhite porcelainitemsexcludingfittings**
6		**SSR Rates for Sanitary & water supply items are purely for guidance for the officers forpreparationofestimatesvidePara113ofAPPWD code.Authoritywhopreparestheestimateis**

Sl.No	CFMS Code	ItemCode	Descriptionofitem	Unit	BasicRatefor SoR 2021-22(Rs.)
		howeverresponsibleforproperratesasenvisagedinPara45ofAPPWD code.			
		LEGEND			
		"**BMW**"-X.XX	**"BMW"forWaterSupply&Sanitaryitems**		
		XXX-"**A**".XX	**"A"for NameoftheSection**		
		XXX-X."**01**"	**"01"for SerialNumberoftheItem**		

Note:-

1) AllMaterialsconformingtoISIorrelevantInternationalStandards shall be used in all CIVIL, Water Supply & SanitaryFittings,ElectricalandElectro-MechanicalWorks.

2) Concerned departments shall approve the materials either fromthe manufacturer or from its authorized /certified dealer only andalsoto approve the brands of the products / materialsto beadoptedintheirestimatesattheirend.Incasecommonapproval is required by the committee, concerned authority shallproposewithallthedetailsafterthoroughverification,tothecommitte e forconsideringthe proposal.

3) SSR rates forCivil and Water supply & Sanitary items arepurelyforguidanceoftheofficersinpreparationofestimatesvidepara1 13ofAPPWDCode.Authoritywhopreparestheestimate is,howeverresponsible for proper rates as envisagedinPara45 ofAPPWDCode.

4) Therates published in the Buildings SoR 2021-22aretheceilingratesonlyandtheestimatepreparingauthoritiesarerespo nsible for the correctness and reasonableness of the ratesand technicalspecificationsadoptedintheestimates.

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

NOTE :

This 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 these 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**
		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, Prayag Polymers 2. FLOOR MOUNTED EWC - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA/Jaquar / Somany, Watertec, Kerovit by Kajaria, Prayag Polymers 3. WALL MOUNTED EWC - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA /Jaquar/ Somany, Watertec, Kerovit by Kajaria, Prayag Polymers 4. CISTERNS FOR WATER CLOSETS - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA /Jaquar / Somany, Watertec, Kerovit by Kajaria, Prayag Polymers 5. PLASTIC SEATS FOR WATER CLOSETS - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA /Jaquar / Somany, Watertec, Kerovit by Kajaria, Prayag Polymers 6. WASH HAND BASINS - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA /Jaquar / Somany, Watertec, Kerovit by Kajaria/ DEC Industries PVT LTD, Prayag Polymers 7. URINALS - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA /Jaquar / Somany, Naturesani, Watertec, Kerovit by Kajaria, Prayag Polymers
E	**SECTION**	**CP FITTINGS - TAPS/ FAUCETS & ACCESSORIES**
		1. TAPS&FAUCETS - BIB TAPS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - 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, Kerovit by Kajaria, Austro,/ ESS ESS/ BATHSENSE/ ROYALE 2. XTAPS&FAUCETS - PILLAR TAPS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware- 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, Kerovit by Kajaria, Austro/ ESS ESS/ BATHSENSE/ ROYALE 3. XTAPS&FAUCETS - OTHER TAPS & SPOUTS - Seiko/ Senior/ Nice/ Senior/ Nice/CERA/ Hindware - 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, Kerovit by Kajaria, Austro/ ESS ESS / BATHSENSE/ ROYALE 4. XSTOP & ANGLE VALVES - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - 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 5. COMBINATION FAUCETS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - 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 6. SHOWERS & FITTINGS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware -

Sl. No	SECTION	NAMES OF THE RECOMMENDED BRAND/ MANUFACTURER/ SUPPLIER
		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 7. MISCELLANEOUS CP FITTINGS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware- 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
F	**SECTION**	**G.I. PIPES & FITTINGS**
		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**
		1. PVC PIPES - Prince/Sudhakar/Kisan/Supreme/ Astral/ Finolex/ Ajay/ Ashirvad/Birla Aerocon/Trueflow by Hindware/Prayag Polymer, Watertec, Austro, Nandi/ APOLLO PIPES LTD / DEC Industries PVT LTD, SENTINI Flo pipes, PRECISION pipes & fittings 2. PVC FITTINGS- Prince/Sudhakar/Kisan/Supreme/ Astral/ Finolex/ Ajay/ Ashirvad/ Birla Aerocon/ Trueflow by Hindware/Prayag Polymer, Watertec, Austro, Nandi/ APOLLO PIPES LTD / DEC Industries PVT LTD , PRECISION pipes& fittings, Sentini flo pipes and fittings 3. PVC PLUMBING ACCESSORIES - Prince/Sudhakar/Kisan/Supreme/ Astral/ Finolex/ Ajay/ Ashirvad/ Birla Aerocon/ Trueflow by Hindware, Watertec, Austro, Nandi/ APOLLO PIPES LTD , PRECISION pipes & fittings 4. PVC Tanks - Sintex, Aquatech, Nandi 5. PVC - LLC Cisterns - Parryware/ Slimlines/ CERA/ Hindware/Prayag Polymer/ APOLLO PIPES LTD
H	**SECTION**	**CENTRIFUGAL CI PIPES & FITTNGS - IS : 1729**
		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**
		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, Austro, Nandi/ DEC Industries PVT LTD 3. PPR PIPES - Supreme/ Ashirvad/ Astral/ Prince/ Kisan / SFMC / KPT/ M/s Sumolex Polyplast Pvt. Ltd

SCHEDULE OF RATES

ELECTRICAL
AND
ELECTRO-MECHANICAL WORKS

PART III -BUILDINGS
FOR THE YEAR
2021-22

PREAMBLE FOR ELECTRICAL WORKS

1. **Overheads and Contractor profit and over Head Charges as mentioned in the Preamble for Buildings SOR 2021-22 (Civil & Electrical) is applicable to all Original Electrical works, subject to the fulfillment of the conditions mentioned in Para 3.0 of Preamble.**
2. **Municipal Area Allowance, Agency or Tribal area allowance or any such allowance on the labor components is applicable to Electrical works as per the Para 4.0(1) of Preamble for Buildings SOR 2021-22**
3. **The Electrical 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 items such as Refrigerators / A.C. Chilled Water plants / Water coolers and Video and Audio Systems etc., 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 these items are not incorporated in the SOR. However, relevant data without rates is provided in the standard schedule data 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 and IEC can be given by the Superintending Engineer (R&B) Electrical, duly obtaining approval from 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 invariably give preference to all local MSME which are manufacturing quality products having ISO 9001 – 2000, GEM, BIS certification without entertaining any other dealers / branded product manufacturers who have no production base in Andhra Pradesh. Hence local manufacturers are considered as per Public Procurement order 2017,Ministry of Home afffairs, Government of India.**

Chief Engineer(R&B) Electrical

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SCHEDULED RATES FOR ELETRICAL & ELECTRO MECHANICAL ITEMS SOR 2021-22

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (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	99
	MAT-02622	b	25 mm (1.6 mm thick)	1 RM	127
	MAT-02623	c	32 mm (1.6 mm thick)	1 RM	182
	MAT-02624	d	38 mm (2.0 mm thick)	1 RM	297
	MAT-02625	e	50 mm (2.0 mm thick)	1 RM	380
2		ELEC-1.1.2	Supply of …….. MS Junction box normal range big size long neck.		
	MAT-02626	a	19/20 mm	1 No	28
	MAT-02627	b	25 mm	1 No	33
	MAT-02628	c	32 mm	1 No	77
	MAT-02629	d	40/38 mm	1 No	110
	MAT-02630	e	50 mm	1 No	209
3		ELEC-1.1.3	Supply of …….MS Junction deep box.		
	MAT-02631	a	20/25 mm	1 No	72
	MAT-02632	b	32 mm	1 No	127
	MAT-02633	c	40 mm	1 No	154
	MAT-02634	d	50 mm	1 No	187
4		ELEC-1.1.4	Supply of …….. MS Inspection Bends.		
	MAT-02635	a	19/20 mm	1 No	24

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-02636	b	25 mm	1 No	28
	MAT-02637	c	32 mm	1 No	61
	MAT-02638	d	40/38 mm	1 No	88
	MAT-02639	e	50 mm	1 No	187
5		ELEC-1.1.5	Supply of …….. MS Inspection Tee.		
	MAT-02640	a	19/20 mm	1 No	28
	MAT-02641	b	25 mm	1 No	33
	MAT-02642	c	32 mm	1 No	77
	MAT-02643	d	40/38 mm	1 No	94
	MAT-02644	e	50 mm	1 No	193
6		ELEC-1.1.6	Supply of …….. MS Inspection Elbow.		
	MAT-02645	a	19/20 mm	1 No	24
	MAT-02646	b	25 mm	1 No	33
	MAT-02647	c	32 mm	1 No	61
	MAT-02648	d	40/38 mm	1 No	77
	MAT-02649	e	50 mm	1 No	176
7		ELEC-1.1.7	Supply of MS Inspection 10 Guage G.I. checknut of size ……..		
	MAT-02650	a	19/20 mm	100 Nos	220
	MAT-02651	b	25 mm	100 Nos	275
	MAT-02652	c	32 mm	100 Nos	550
	MAT-02653	d	40/38 mm	100 Nos	798
	MAT-02654	e	50 mm	100 Nos	1331

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
8		ELEC-1.1.8	Supply of …….. Saddles with Base.		
	MAT-02655	a	19/20 mm	100 Nos	237
	MAT-02656	b	25 mm	100 Nos	248
	MAT-02657	c	32 mm	100 Nos	418
	MAT-02658	d	40/38 mm	100 Nos	688
	MAT-02659	e	50 mm	100 Nos	869
9		ELEC-1.1.9	Supply of……...20 guage Saddles.		
	MAT-02660	a	19/20 mm	100 Nos	121
	MAT-02661	b	25 mm	100 Nos	165
	MAT-02662	c	32 mm	100 Nos	264
	MAT-02663	d	40/38 mm	100 Nos	341
	MAT-02664	e	50 mm	100 Nos	418
10		ELEC-1.1.10	Supply of ……... 16 Guage socket coupler.		
	MAT-02665	a	19/20 mm	12 Nos	66
	MAT-02666	b	25 mm	12 Nos	88
	MAT-02667	c	32 mm	12 Nos	143
	MAT-02668	d	38 mm	12 Nos	187
	MAT-02669	e	40mm	12 Nos	209
	MAT-02670	f	50 mm	12 Nos	440
11		ELEC-1.1.11	Supply of 19mm Ball Socket.		
	MAT-02671	a	19 mm	12 Nos	253
	MAT-02672	b	25 mm	12 Nos	385

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
		1.2	PVC CONDUIT PIPES		
12		ELEC-1.2.1	Supply of ISI ……. outer dia heavy grade with IS:9537 part 3 FRLS regid PVC pipe Makes : As per list of recommended brands		
	MAT-02673	a	20 mm(1.95 - 2.10)mm thickness	1 RM	28
	MAT-02674	b	25 mm(2.00 - 2.20)mm thickness	1 RM	36
13		ELEC-1.2.2	Supply of ISI …….. outer dia medium grade with IS:9537 part 3 FRLS regid PVC pipe. Makes : As per list of recommended brands		
	MAT-02675	a	20mm (1.40 -1.55)mm thickness	1 RM	20
	MAT-02676	b	25mm (1.60 -1.80)mm thickness	1 RM	28
	MAT-02677	c	32mm (1.90 - 2.10)mm thickness	1 RM	43
	MAT-02678	d	40mm (2.10 - 2.30)mm thickness	1 RM	58
	MAT-02679	e	50mm (2.60 - 2.85)mm thickness	1 RM	83
		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		
	MAT-02680	a	19/20 mm	1 RM	22
	MAT-02681	b	25mm	1 RM	33
	MAT-02682	c	32mm	1 RM	39
	MAT-02683	d	38/40mm	1 RM	64
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	13
	MAT-02685	b	25mm	1 RM	17
	MAT-02686	c	32mm	1 RM	26
	MAT-	d	38/40mm	1 RM	36

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	02687				
	MAT-02688	e	50 mm	1 RM	59
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	11
	MAT-02690	b	25mm	1 No	17
	MAT-02691	c	32mm	1 No	28
	MAT-02692	d	40mm	1 No	33
	MAT-02693	e	50 mm	1 No	61
17		ELEC-1.2.6	Supply of……. PVC Junction Boxes confirms to IS : 3419 Makes : As per list of recommended brands		
	MAT-02694	a	19/20 mm	1 No	21
	MAT-02695	b	25mm	1 No	22
	MAT-02696	c	32mm	1 No	39
	MAT-02697	d	40mm	1 No	41
	MAT-02698	e	50 mm	1 No	55
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	25
	MAT-02700	b	25mm	1 No	28
	MAT-02701	c	32mm	1 No	44
	MAT-02702	d	40/38 mm	1 No	48
	MAT-02703	e	50 mm	1 No	70
19		ELEC-1.2.8	Supply of ……. PVC Bends.		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands		
	MAT-02704	a	19/20 mm dia 1.5mm thick	1 No	7
	MAT-02705	b	25mm dia 1.5mm thick	1 No	9
	MAT-02706	c	32mm dia 2.0mm thick	1 No	20
	MAT-02707	d	40 mm dia 2.0mm thick	1 No	22
	MAT-02708	e	50 mm dia 2.0mm thick	1 No	32
20	MAT-02709	ELEC-1.2.9	Dummy Cover for PVC junction boxes	1 No	6
		1.3	**HOT DIP GALVANIZED METAL BOXES for switch boards**		
21		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	63
	MAT-02711	b	3	1 No	88
	MAT-02712	c	4	1 No	105
	MAT-02713	d	6	1 No	143
	MAT-02714	e	8 or 9	1 No	187
	MAT-02715	f	12	1 No	226
			METALLIC BOXES		
22		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	55
	MAT-02717	b	175mmx100x60mm	1 No	66
	MAT-02718	c	150mmx150x60mm	1 No	77
	MAT-02719	d	200mmx150x60mm	1 No	88
	MAT-	e	200mmx250x75mm	1 No	110

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	02720				
	MAT-02721	f	250mmx300x75mm	1 No	193
	MAT-02722	g	300mmx375x100mm	1 No	248
		1.4	T.W. BOARDS		
23		ELEC-1.4.1	Supply of T.W.Deep Box of Size		
	MAT-02723	a	4" x 4"	1 No	11
	MAT-02724	b	4" x 7	1 No	20
	MAT-02725	c	6" x 6"	1 No	22
	MAT-02726	d	6" x 8"	1 No	33
	MAT-02727	e	8" x 10"	1 No	55
	MAT-02728	f	10" x 12"	1 No	77
	MAT-02729	g	12" x 15"	1 No	121
25		ELEC-1.4.2	Supply of Decolam Board of size		
	MAT-02730	a	4" x 4"	1 No	17
	MAT-02731	b	4" x 7	1 No	28
	MAT-02732	c	6" x 6"	1 No	39
	MAT-02733	d	6" x 8"	1 No	44
	MAT-02734	e	8" x 10"	1 No	77
	MAT-02735	f	10" x 12"	1 No	121
	MAT-02736	g	12" x 15"	1 No	182
26		ELEC-1.4.3	Supply of Peeta Boards of size		
	MAT-02737	a	9" x 14"	1 No	55
	MAT-02738	b	12" x 10"	1 No	61

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-02739	c	15" x 20"	1 No	209
	MAT-02740	d	18" x 24"	1 No	303
	MAT-02741	e	18" x 30"	1 No	374
27		ELEC-1.4.4	Supply of No.8 Screws of		
	MAT-02742	a	12mm.	100 Nos	66
	MAT-02743	b	25mm.	100 Nos	83
	MAT-02744	c	30mm.	100 Nos	99
	MAT-02745	d	35/38mm.	100 Nos	110
	MAT-02746	e	50mm	100 Nos	128
	MAT-02747	f	63/75mm.	100 Nos	154
		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	1208
	MAT-02749	b	1.5 Sqmm	100 RM	1737
	MAT-02750	c	2.5 Sqmm	100 RM	2806
	MAT-02751	d	4.0 Sqmm	100 RM	4284
	MAT-02752	e	6.0 Sqmm	100 RM	6555
	MAT-02753	f	10.0 Sqmm	100 RM	10120
	MAT-02754	g	16.0 Sqmm	100 RM	15985
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	1064

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-02756	b	1.5 Sqmm	100 RM	1518
	MAT-02757	c	2.5 Sqmm	100 RM	2461
	MAT-02758	d	4.0 Sqmm	100 RM	3795
	MAT-02759	e	6.0 Sqmm	100 RM	5865
	MAT-02760	f	10.0 Sqmm	100 RM	8913
	MAT-02761	g	16.0 Sqmm	100 RM	14835
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	920
	MAT-02763	b	1.5 Sqmm	100 RM	1288
	MAT-02764	c	2.5 Sqmm	100 RM	2070
	MAT-02765	d	4.0 Sqmm	100 RM	3105
	MAT-02766	e	6.0 Sqmm	100 RM	4830
	MAT-02767	f	10.0 Sqmm	100 RM	7648
	MAT-02768	g	16.0 Sqmm	100 RM	11730
			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	253
	MAT-05467	b	Single Core 35 Sqmm	1 RM	357
	MAT-05468	c	Single Core 50 Sqmm	1 RM	506
	MAT-05469	d	Single Core 70 Sqmm	1 RM	690
	MAT-	e	2 core 1.5 Sqmm	1 RM	52

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	02769				
	MAT-02770	f	2 core 2.5 Sqmm	1 RM	81
	MAT-02771	g	2 core 4.0 Sqmm	1 RM	109
	MAT-05470	h	2 core 6 Sqmm	1 RM	167
	MAT-05471	i	2 core 10 Sqmm	1 RM	242
	MAT-05472	j	2 core 16 Sqmm	1 RM	288
	MAT-02772	k	3 core 1.5 Sqmm	1 RM	69
	MAT-02773	l	3 core 2.5 Sqmm	1 RM	115
	MAT-02774	m	3 core 4.0 Sqmm	1 RM	161
	MAT-05473	n	3 core 6 Sqmm	1 RM	201
	MAT-05474	o	3 core 10 Sqmm	1 RM	265
	MAT-05475	p	3 core 16 Sqmm	1 RM	426
	MAT-02775	q	4 core 1.5 Sqmm	1 RM	92
	MAT-02776	r	4 core 2.5 Sqmm	1 RM	144
	MAT-02777	s	4 core 4.0 Sqmm	1 RM	219
	MAT-05476	t	4 core 6 Sqmm	1 RM	322
	MAT-05477	u	4 core 10 Sqmm	1 RM	495
	MAT-05478	v	4 core 16 Sqmm	1 RM	627
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. Makes : As per list of recommended brands as category II		
	MAT-05479	a	Single Core 25 Sqmm	1 RM	224
	MAT-05480	b	Single Core 35 Sqmm	1 RM	328
	MAT-	c	Single Core 50 Sqmm	1 RM	443

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	05481				
	MAT-05482	d	Single Core 70 Sqmm	1 RM	638
	MAT-02778	e	2 core 1.5 Sqmm	1 RM	46
	MAT-02779	f	2 core 2.5 Sqmm	1 RM	69
	MAT-02780	g	2 core 4.0 Sqmm	1 RM	98
	MAT-05483	h	2 core 6 Sqmm	1 RM	155
	MAT-05484	i	2 core 10 Sqmm	1 RM	219
	MAT-05485	j	2 core 16 Sqmm	1 RM	276
	MAT-02781	k	3 core 1.5 Sqmm	1 RM	63
	MAT-02782	l	3 core 2.5 Sqmm	1 RM	104
	MAT-02783	m	3 core 4.0 Sqmm	1 RM	138
	MAT-05486	n	3 core 6 Sqmm	1 RM	190
	MAT-05487	o	3 core 10 Sqmm	1 RM	247
	MAT-05488	p	3 core 16 Sqmm	1 RM	391
	MAT-02784	q	4 core 1.5 Sqmm	1 RM	81
	MAT-02785	r	4 core 2.5 Sqmm	1 RM	115
	MAT-02786	s	4 core 4.0 Sqmm	1 RM	184
	MAT-05489	t	4 core 6 Sqmm	1 RM	299
	MAT-05490	u	4 core 10 Sqmm	1 RM	454
	MAT-05491	v	4 core 16 Sqmm	1 RM	592
33	MAT-02787	ELEC-1.5.6	Supply of 23 / 0060 twin core twisted / flat heavy Copper wire. Makes : As per list of recommended	100 RM	1093

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			brands.		
		1.6	**SERVICE MAINS AND FLAT CABLE FOR SUBMERSIBLE MOTORS.**		
34		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	759
	MAT-02789	b	6 Sqmm	100 RM	1513
	MAT-02790	c	10 Sqmm	100 RM	1650
	MAT-02791	d	16 Sqmm	100 RM	2750
35		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	3080
	MAT-02793		10 Sqmm	100 RM	3724
36		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	63
	MAT-02795	b	2.5 Sqmm	1 RM	92
	MAT-02796	c	4.0 Sqmm	1 RM	144
	MAT-02797	d	6.0 Sqmm	1 RM	207
	MAT-02798	e	10.0 Sqmm	1 RM	328
	MAT-02799	f	16.0 Sqmm	1 RM	431
37		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	58
	MAT-02801	b	2.5 Sqmm	1 RM	83

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-02802	c	4.0 Sqmm	1 RM	127
	MAT-02803	d	6.0 Sqmm	1 RM	184
	MAT-02804	e	10.0 Sqmm	1 RM	299
	MAT-02805	f	16.0 Sqmm	1 RM	391
		1.7	**FLUSH TYPE SWITCHES AND ACCESSORIES**		
38		ELEC-1.7.1	Supply of …….. Makes : As per list of recommended brands.		
	MAT-02806	a	6A 1 Way flush type Swich.	1 No	17
	MAT-02807	b	6A 2 Way flush type Swich.	1 No	21
	MAT-02808	c	6A 2 pin flush type Socket.	1 No	20
	MAT-02809	d	6A 3/2 pin flush type Socket with shutter.	1 No	26
	MAT-02810	e	6A flush type Neon Indicator.	1 No	20
	MAT-02811	f	6A Triangle Plug Top of	1 No	33
	MAT-02812	g	1 Way flush type Bed Swich / Bell Push.	1 No	21
	MAT-02813	h	16A flush type Swich.	1 No	66
	MAT-02814	i	16A flush type Socket with shutter.	1 No	66
	MAT-02815	j	16A flush type Switch Socket combined (2 in one).	1 No	99
	MAT-02816	k	16A Triangle Plug Top	1 No	50
	MAT-02817	l	stepped type Electronic Regulator.	1 No	198
	MAT-02818	m	3 Plate Jumbo Ceiling Rose.	1 No	21
	MAT-02819	n	BH / SBH.	1 No	20

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-02820	o	Pendent Holder / Adopter.	1 No	17
	MAT-02821	p	Telephone Jack with Connector.	1 No	50
	MAT-02822	q	TV Antenna Outlet.	1 No	28
	MAT-02823	r	15A/10A Flush type Fuse.	1 No	33
	MAT-02824	s	32A DP Flush type.	1 No	105
	MAT-02825	t	Calling Bell.	1 No	72
	MAT-02826	u	Buzzer.	1 No	61
	MAT-02827	v	Ding Dong Bell.	1 No	149
	MAT-02828	w	Electronic Musical Bell.	1 No	242
	MAT-02829	x	Remote Bell.	1 No	699
	MAT-02830	y	MC Holder.	1 No	22
	MAT-02831	z	Spike Guard with 1 No Switch and 4 Nos Sockets.	1 No	385
	MAT-02832	A	Spike Guard with 4 No Switches and 4 Nos Sockets.	1 No	550
		1.8	**MODULAR SWITCHES AND ACCESSORIES**		
39		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
	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-	f	6A / 10A Modular Bell Push with Neon	1 No	138

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	02838		Indicator.		
	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	16A Triangle Top.	1 No	160
	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
40		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

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	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	16A Triangle Top.	1 No	66
	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
	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		
41		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

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
42		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
			SECTION - 2		
		2.1	**PANEL MOUNTING SWITCH DISCONNECTOR FUSE UNITS (SDFU)**		
43		ELEC-2.1.1	Supply of …….....TPN Switch Disconnector Fuse Unit aCubical 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	1430
	MAT-02880	b	63A	1 No	2442
	MAT-02881	c	125A	1 No	5830
	MAT-02882	d	200A	1 No	7645
	MAT-02883	e	250A	1 No	9130
	MAT-02884	f	400A	1 No	14080
	MAT-02885	g	630A	1 No	23870
44		ELEC-2.1.2	Supply of …….. TPN Switch Disconnector 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	1210
	MAT-02887	b	63A	1 No	1793
	MAT-	c	125A	1 No	4015

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	02888				
	MAT-02889	d	200A	1 No	6050
	MAT-02890	e	250A	1 No	6820
	MAT-02891	f	400A	1 No	10450
	MAT-02892	g	630A	1 No	17490
		2.2	**ON LOAD CHANGEOVER SWITCHES (OPEN EXECUTION)**		
45		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	4510
	MAT-02894	b	125A	1 No	8470
	MAT-02895	c	200A	1 No	11330
	MAT-02896	d	250A	1 No	16170
	MAT-02897	e	400A	1 No	24420
	MAT-02898	f	630A	1 No	29150
46		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	1650
	MAT-02900	b	63A	1 No	4070
	MAT-02901	c	125A	1 No	8030
	MAT-02902	d	200A	1 No	10450
	MAT-02903	e	250A	1 No	14850
	MAT-02904	f	400A	1 No	22880
	MAT-	g	630A	1 No	26950

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	02905				
		2.3	**OFF LOAD CHANGE OVER SWITCHES IN SS ENCLOUSURE**		
47		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	1375
	MAT-02907	b	63A 415V FP	1 No	4730
	MAT-02908	c	100A 415V FP	1 No	8305
48		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	798
	MAT-02910	b	63A 415V FP	1 No	2750
	MAT-02911	c	100A 415V FP	1 No	5170
		2.4	**AUTO TRANSFER SWITCH**		
49		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	38500
	MAT-02913	b	160A, 415VAC FP	1 No	40150
	MAT-02914	c	200A 415VACFP	1 No	41250
	MAT-02915	d	250A, 415VAC FP	1 No	51700
	MAT-02916	e	315A, 415VAC FP	1 No	52250
	MAT-02917	f	400A, 415VAC FP	1 No	65450
50		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.		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands.		
	MAT-02918	a	630A,415VAC FP	1 No	83050
	MAT-02919	b	800A, 415VAC FP	1 No	110000
	MAT-02920	c	1000A,415VAC FP	1 No	136400
	MAT-02921	d	1250A, 415VAC FP	1 No	169400
	MAT-02922	e	1600 A, 415VAC FP	1 No	210100
	MAT-02923	f	2000 A, 415VAC FP	1 No	306900
	MAT-02924	g	2500 A, 415VAC FP	1 No	338800
	MAT-02925	h	3200 A, 415VAC FP	1 No	435600
		2.5	**REWIRABLE / DOUBLE BREAK SWITCHES IN SS ENCLOSURE**		
51		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	935
	MAT-02927	b	32A 415V TPN	1 No	2090
	MAT-02928	c	63A 415V TPN	1 No	4290
	MAT-02929	d	100A 415V TPN	1 No	7920
52		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	7125
	MAT-02931	b	200A 415V TPN	1 No	10250
53		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		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-02932	a	32A 240V SPN	1 No	660
	MAT-02933	b	32A 415V TPN	1 No	1012
	MAT-02934	c	63A 415V TPN	1 No	2420
	MAT-02935	d	100A 415V TPN	1 No	4620
54		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	4730
	MAT-02937	b	200A 415V TPN	1 No	7700
		2.6	**HRC FUSE LINKS (DIN/BOLTED TYPE)**		
55		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	55
	MAT-02939	b	45A to 63A	1 No	83
	MAT-02940	c	100 A to 160 A	1 No	259
	MAT-02941	d	250A to 350A	1 No	385
	MAT-02942	e	400A	1 No	732
	MAT-05457	f	630A	1 No	1463
		2.7	**PORCELAIN REWIRABLE FUSE UNITS.**		
56		ELEC-2.7.1	Supply of …... Porcelain Rewirable Fuse Units. Makes : As per list of recommended brands.		
	MAT-02943	a	32A 240V	1 No	110
	MAT-02944	b	32A 415V	1 No	165
	MAT-02945	c	63A 415V	1 No	275

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-02946	d	100A 415V	1 No	572
57		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	935
	MAT-02948	b	300A 415V	1 No	1210
		2.8	**VOLTAGE SURGE PROTECTORS**		
58		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	7700
	MAT-02950	b	4 Pole 4 Module 40 KA 1.4 KV	1 No	14438
	MAT-02951	c	2 Pole 2 Module 15 KA 1.2 KV	1 No	6160
	MAT-02952	d	4 Pole 4 Module 15 KA 1.2 KV	1 No	11550
		2.9	**PANEL MOUNTING MCCBs**		
59		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	63A / 60A 3 Pole MCCB,16 KA	1 No	7040
	MAT-02954	b	63A / 60A 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

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	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-02966	n	800A 4 Pole MCCB,50 KA	1 No	66000
60		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	63A / 60A 3 Pole MCCB,16 KA	1 No	4950
	MAT-02968	b	63A / 60A 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
	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
			PANEL MOUNTING ACBs (Microprocessor Based)		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
61		ELEC-2.9.3	Supply of Air Circuit Breaker Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processer based having over load, shot circuit and earth fault Protection with display and 20 faults History backup. Makes : As per list of recommended brands as category I		
	MAT-02981	a	630A 3 Pole, 50kA Electrically fixed	1 No	115500
	MAT-02982	b	630A 3 Pole, 50kA Electrically drawout	1 No	150700
	MAT-02983	c	630A 4 Pole, 50kA Electrically fixed	1 No	139700
	MAT-02984	d	630A 4 Pole, 50kA Electrically drawout	1 No	187000
	MAT-02985	e	800A 3 Pole, 50kA Electrically drawout	1 No	159500
	MAT-02986	f	800A 4 Pole, 50kA Electrically drawout	1 No	198000
	MAT-02987	g	1000A 3 Pole, 50kA Electrically drawout	1 No	167200
	MAT-02988	h	1000A 4 Pole, 50kA Electrically drawout	1 No	209000
	MAT-02989	i	1250A 3 Pole, 50kA Electrically drawout	1 No	220000
	MAT-02990	j	1250A 4 Pole, 50kA Electrically drawout	1 No	269500
	MAT-02991	k	1600A 3 Pole, 50kA Electrically drawout	1 No	247500
	MAT-02992	l	1600A 4 Pole, 50kA Electrically drawout	1 No	286000
	MAT-02993	m	2000A 3 Pole, 75kA Electrically drawout	1 No	289300
	MAT-02994	n	2000A 4 Pole, 75kA Electrically drawout	1 No	352000
	MAT-02995	o	2500A 3 Pole, 75kA Electrically drawout	1 No	396000
	MAT-02996	p	2500A 4 Pole, 75kA Electrically drawout	1 No	484000
	MAT-02997	q	3200A 3 Pole, 75kA Electrically drawout	1 No	407000
	MAT-02998	r	3200A 4 Pole, 75kA Electrically drawout	1 No	517000

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
62		ELEC-2.9.4	Supply of Air Circuit Breaker Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processer based having over load, shot circuit and earth fault Protection. Makes : As per list of recommended brands as category II		
	MAT-02999	a	630A 3 Pole, 50kA Electrically fixed	1 No	101200
	MAT-03000	b	630A 3 Pole, 50kA Electrically drawout	1 No	132000
	MAT-03001	c	630A 4 Pole, 50kA Electrically fixed	1 No	115500
	MAT-03002	d	630A 4 Pole, 50kA Electrically drawout	1 No	159500
	MAT-03003	e	800A 3 Pole, 50kA Electrically drawout	1 No	137500
	MAT-03004	f	800A 4 Pole, 50kA Electrically drawout	1 No	176000
	MAT-03005	g	1000A 3 Pole, 50kA Electrically drawout	1 No	154000
	MAT-03006	h	1000A 4 Pole, 50kA Electrically drawout	1 No	176000
			AIR INSULATED BUS DUCT		
63		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	9625
	MAT-03008	b	630Amp, 50 - 63KA	RM	11440
	MAT-03009	c	800 Amp, 50 - 76KA	RM	12540
	MAT-03010	d	1000 Amp, 50 - 76KA	RM	14410
	MAT-03011	e	1250 Amp, 50 - 76KA	RM	15070
	MAT-03012	f	1600 Amp, 50 - 76KA	RM	18920

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
64	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	5720
65		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	11000
	MAT-03015	b	630 Amps	1 No	12540
	MAT-03016	c	800 Amps	1 No	13090
	MAT-03017	d	1000Amps	1 No	15345
	MAT-03018	e	1250 Amps	1 No	16500
	MAT-03019	f	1600 Amps	1 No	18700
66		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	13090
	MAT-03021	b	250A	1 No	15180
	MAT-03022	c	400A	1 No	22440
	MAT-03023	d	630 A	1 No	24420
			SANDWITCH BUSDUCT		
67		ELEC-2.9.9	Supply, instalation, testing and commisioning of .....Amp, ...KA breaking capacity (100% Neutral busbar) sandwitch 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 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-03024	a	630Amp, 36/40	RM	11770
	MAT-	b	800Amp, 42/50KA	RM	13200

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	03025				
	MAT-03026	c	1000Amp, 50KA	RM	14520
	MAT-03027	d	1250 Amp,75kA	RM	15180
	MAT-03028	e	1600 Amp,80 kA	RM	19030
	MAT-03029	f	2000 Amp ,80kA	RM	23320
	MAT-03030	g	2500 Amp ,150 kA	RM	33440
	MAT-03031	h	3200 Amp,160kA	RM	38720
	MAT-03032	i	4000 Amp,160kA	RM	51810
68		ELEC-2.9.10	Supply and Fixing of …….Amps Horizontal / Vertical bends for sandwitch Bus Duct . Makes : As per list of recommended brands.		
	MAT-03033	a	630A	1 No	11990
	MAT-03034	b	800A	1 No	12980
	MAT-03035	c	1000A	1 No	13530
	MAT-03036	d	1250 A	1 No	14630
	MAT-03037	e	1600 A	1 No	16720
	MAT-03038	f	2000 A	1 No	19470
	MAT-03039	g	2500 A	1 No	24530
	MAT-03040	h	3200 A	1 No	29810
	MAT-03041	i	4000 A	1 No	33440
69		ELEC-2.9.11	Supply and Fixing of …….. Amps Copper Flexibles for three phases and neutral for **Air Insulated / sandwitch**Busduct . Makes : As per list of recommended brands.		
	MAT-03042	a	400A	1 No	25630
	MAT-03043	b	630A	1 No	27170

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03044	c	800A	1 No	29590
	MAT-03045	d	1000A	1 No	31130
	MAT-03046	e	1250 A	1 No	33000
	MAT-03047	f	1600 A	1 No	35530
	MAT-03048	g	2000 A	1 No	38720
	MAT-03049	h	2500 A	1 No	44000
	MAT-03050	i	3200 A	1 No	47080
	MAT-03051	j	4000 A	1 No	50270
69		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	9900
	MAT-03053	b	630A	1 No	13530
	MAT-03054	c	800A	1 No	16720
70		ELEC-2.9.13	Supply and fixing of Flange end for …….Amps for Sandwitch Busdusts Makes : As per list of recommended brands.		
	MAT-03055	a	400A	1 No	11990
	MAT-03056	b	630A	1 No	17160
	MAT-03057	c	800A	1 No	19910
	MAT-03058	d	1000 A	1 No	21010
	MAT-03059	e	1250 A	1 No	14520
	MAT-03060	f	1600 A	1 No	16390
	MAT-03061	g	2000 A	1 No	25520
	MAT-03062	h	2500 A	1 No	43230

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03063	i	3200 A	1 No	47300
	MAT-03064	j	4000 A	1 No	49720
71		ELEC-2.9.14	Supply and Fixing of ……Amps Tap off box for Sandwitch Busduct. Makes : As per list of recommended brands.		
	MAT-03065	a	160A	1 No	16500
	MAT-03066	b	250A	1 No	27720
	MAT-03067	c	400A	1 No	35090
	MAT-03068	d	630A	1 No	50930
	MAT-03069	e	800A	1 No	76450
		2.10	**MCBs (AS PER IS:60898-1:2002)**		
72		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	209
	MAT-03071	b	40-63A SP MCB	1 No	440
	MAT-03072	c	6-32A DP MCB	1 No	633
	MAT-03073	d	40-63A DP MCB	1 No	1007
	MAT-03074	e	6-32A TP MCB	1 No	1007
	MAT-03075	f	40-63A TP MCB	1 No	1617
	MAT-03076	g	6-32A FP MCB	1 No	1386
	MAT-03077	h	40-63A FP MCB	1 No	2019
73		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	176

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03079	b	40-63A SP MCB	1 No	380
	MAT-03080	c	6-32A DP MCB	1 No	534
	MAT-03081	d	40-63A DP MCB	1 No	770
	MAT-03082	e	6-32A TP MCB	1 No	831
	MAT-03083	f	40-63A TP MCB	1 No	1254
	MAT-03084	g	6-32A FP MCB	1 No	1133
	MAT-03085	h	40-63A FP MCB	1 No	1573
74		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	143
	MAT-03087	b	40-63A SP MCB	1 No	242
	MAT-03088	c	6-32A DP MCB	1 No	374
	MAT-03089	d	40-63A DP MCB	1 No	550
	MAT-03090	e	6-32A TP MCB	1 No	671
	MAT-03091	f	40-63A TP MCB	1 No	1045
	MAT-03092	g	6-32A FP MCB	1 No	880
	MAT-03093	h	40-63A FP MCB	1 No	1122
		2.11	**ISOLATORS CONFIRMS TO I E C 60947 PART-III**		
75		ELEC-2.11.1	Supply of …….. Isolator. Makes : As per list of recommended brands as category I.		
	MAT-03094	a	32A DP	1 No	358
	MAT-03095	b	40A DP	1 No	396
	MAT-03096	c	63A DP	1 No	523
	MAT-	d	40A TP	1 No	671

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	03097				
	MAT-03098	e	63A TP	1 No	792
	MAT-03099	f	40A FP	1 No	880
	MAT-03100	g	63A FP	1 No	990
	MAT-03101	h	100A FP	1 No	1045
76		ELEC-2.11.2	Supply of ……. Isolator. Makes : As per list of recommended brands as category II		
	MAT-03102	a	32A DP	1 No	347
	MAT-03103	b	40A DP	1 No	363
	MAT-03104	c	63A DP	1 No	440
	MAT-03105	d	40A TP	1 No	627
	MAT-03106	e	63A TP	1 No	638
	MAT-03107	f	40A FP	1 No	726
	MAT-03108	g	63A FP	1 No	781
	MAT-03109	h	100A FP	1 No	963
77		ELEC-2.11.3	Supply of…….. Isolator. Makes : As per list of recommended brands as category III		
	MAT-03110	a	32A DP	1 No	231
	MAT-03111	b	40A DP	1 No	275
	MAT-03112	c	63A DP	1 No	374
	MAT-03113	d	40A TP	1 No	402
	MAT-03114	e	63A TP	1 No	462
	MAT-03115	f	40A FP	1 No	622
		2.12	**RCCBs(ELCB/RCD) CONFIRMS TO IEC:61008 AND IS:12640-1**		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
78		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	2937
	MAT-03117	b	40A 2 Pole,100mA	1 No	3113
	MAT-03118	c	40A 4 Pole30mA	1 No	3234
	MAT-03119	d	40A 4 Pole ,100mA	1 No	3355
	MAT-03120	e	63A 2 Pole,30mA,	1 No	3630
	MAT-03121	f	63A 2 Pole,100mA	1 No	3575
	MAT-03122	g	63A 4 Pole,30mA	1 No	3740
	MAT-03123	h	63A 4 Pole,100mA	1 No	4158
79		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	2475
	MAT-03125	b	40A 2 Pole,100mA	1 No	2530
	MAT-03126	c	40A 4 Pole30mA	1 No	2750
	MAT-03127	d	40A 4 Pole ,100mA	1 No	2860
	MAT-03128	e	63A 2 Pole,30mA,	1 No	3091
	MAT-03129	f	63A 2 Pole,100mA	1 No	3168
	MAT-03130	g	63A 4 Pole,30mA	1 No	3289
	MAT-03131	h	63A 4 Pole,100mA	1 No	3300
			RCBO CONFIRMS TO IEC:61009-1		
80		ELEC-2.12.3	Supply of ……RCBO for over load, short-circuit and earth leakage protection. Makes : As per list of recommended brands.		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03132	a	40A 2 Pole,30mA	1 No	5005
	MAT-03133	b	40A 2 Pole,100mA	1 No	5467
	MAT-03134	c	40A 4 Pole30mA	1 No	5687
	MAT-03135	d	40A 4 Pole ,100mA	1 No	6017
	MAT-03136	e	63A 2 Pole,30mA,	1 No	5984
	MAT-03137	f	63A 2 Pole,100mA	1 No	6336
	MAT-03138	g	63A 4 Pole,30mA	1 No	6710
	MAT-03139	h	63A 4 Pole,100mA	1 No	6842
	MAT-08761	i	Supply of MCB type Changeover switch 20A Double Pole 2 Way 400V AC suitable to fix on Din Channel		1980
		2.13	**MCB DISTRIBUTION BOARDS (AS PER IS 8623; IS 13032; IEC 61439-3)**		
			SPN DBs		
81		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	963
	MAT-03141	b	8 Way SPN DB with IP 30, 8 Nos	1 No	1045
	MAT-03142	c	12 Way SPN DB with IP 30, 12 Nos	1 No	1265
	MAT-03143	d	4 Way SPN DB with IP 43, 4 Nos	1 No	1320
	MAT-03144	e	8 Way SPN DB with IP 43, 8 Nos	1 No	1430
	MAT-03145	f	12 Way SPN DB with IP 43, 12 Nos	1 No	1733
82		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	825
	MAT-	b	8 Way SPN DB with IP 30, 8	1 No	880

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	03147		Nos		
	MAT-03148	c	12 Way SPN DB with IP 30, 12 Nos	1 No	1100
	MAT-03149	d	4 Way SPN DB with IP 43, 4 Nos	1 No	1155
	MAT-03150	e	8 Way SPN DB with IP 43, 8 Nos	1 No	1265
	MAT-03151	f	12 Way SPN DB with IP 43, 12 Nos	1 No	1485
83		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	715
	MAT-03153	b	8 Way SPN DB with IP 30, 8 Nos	1 No	770
	MAT-03154	c	12 Way SPN DB with IP 30, 12 Nos	1 No	963
	MAT-03155	d	4 Way SPN DB with IP 43, 4 Nos	1 No	1034
	MAT-03156	e	8 Way SPN DB with IP 43, 8 Nos	1 No	1100
	MAT-03157	f	12 Way SPN DB with IP 43, 12 Nos	1 No	1320
			TPN DBs		
84		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	1870
	MAT-03159	b	(8 +18) 6 Way TPN DB Horizontal with IP 30, 18 Nos	1 No	2640
	MAT-03160	c	(8 +12) 4 Way TPN DB Horizontal with IP 43, 12 Nos	1 No	2970
	MAT-03161	d	(8 +18) 6 Way TPN DB Horizontal with IP 43, 18 Nos	1 No	4180
	MAT-03162	e	(8 +24) 8 Way TPN DB Horizontal with IP 43, 24 Nos	1 No	4730
85		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-	a	(8 +12) 4 Way TPN DB Horizontal	1 No	1705

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	03163		with IP 30, 12 Nos		
	MAT-03164	b	(8 +18) 6 Way TPN DB Horizontal with IP 30, 18 Nos	1 No	2365
	MAT-03165	c	(8 +12) 4 Way TPN DB Horizontal with IP 43, 12 Nos	1 No	2640
	MAT-03166	d	(8 +18) 6 Way TPN DB Horizontal with IP 43, 18 Nos	1 No	3630
	MAT-03167	e	(8 +24) 8 Way TPN DB Horizontal with IP 43, 24 Nos	1 No	4180
86		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	1540
	MAT-03169	b	(8 +18) 6 Way TPN DB Horizontal with IP 30, 18 Nos	1 No	2090
	MAT-03170	c	(8 +12) 4 Way TPN DB Horizontal with IP 43, 12 Nos	1 No	2035
	MAT-03171	d	(8 +18) 6 Way TPN DB Horizontal with IP 43, 18 Nos	1 No	2640
	MAT-03172	e	(8 +24) 8 Way TPN DB Horizontal with IP 43, 24 Nos	1 No	3080
			VTPN DBs		
87		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	7623
	MAT-03174	b	6 Way VTPN DB with IP 43	1 No	8833
	MAT-03175	c	8 Way VTPN DB with IP 43	1 No	9801
88		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 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	7865
	MAT-03177	b	8 Way TPN DB, 24 Nos	1 No	8965

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
89		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	9922
	MAT-03179	b	8 Way VTPN DB with IP 43 Protection.	1 No	12463
90		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	6710
	MAT-03181	b	6 Way VTPN DB with IP 43	1 No	7150
	MAT-03182	c	8 Way VTPN DB with IP 43	1 No	8360
91		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	7040
	MAT-03184	b	8 Way TPN DB,24 Nos	1 No	8030
92		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-03185	a	4 Way VTPN DB with IP 43 Protection.	1 No	8030
	MAT-03186	b	8 Way VTPN DB with IP 43 Protection.	1 No	10120
93		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	1084
	MAT-03188	b	20A TP	1 No	2052
	MAT-03189	c	32A TP	1 No	2420
94		ELEC-2.13.14	Supply of …….. Plug and Socket in SS enclosureas per IS 8623; IS 13032; IEC 61439-3. Makes : As per list of recommended brands as category II.		
	MAT-	a	20A SP	1 No	770

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	03190				
	MAT-03191	b	20A TP	1 No	1375
	MAT-03192	c	32A TP	1 No	1815
95		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	578
	MAT-03194	b	20A TP	1 No	1100
	MAT-03195	c	32A TP	1 No	1540
96		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	330
	MAT-03197	b	DP/TP/FP	1 No	440
97		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	253
	MAT-03199	b	DP/TP/FP	1 No	363
98		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	231
	MAT-03201	b	DP/TP/FP	1 No	341
			SECTION - 3		
		3.1	**STREET LIGHT LUMINAIRES**		
99	MAT-03202	ELEC-3.1.1	Supply of fluorescent street light luminaire with sheet alluminium housing and UV stabilised acrylic cover with Electronic ballast and all standard accessories etc. Makes : As per list of recommended brands as category I.		
			1 x 36/40 W	1 No	1265

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
100	MAT-03203	ELEC-3.1.2	Supply of fluorescent street light luminaire with sheet alluminium housing and UV stabilised acrylic cover with Electronic ballast and all standard accessories etc. Makes : As per list of recommended brands as category II.		
			1 x 36/40 W	1 No	880
101		ELEC-3.1.3	Supply of …….. Street light luminaire integral with pressure diecast alluminium housing having pot optics with IP66 protection with all standard accessories etc. Makes : As per list of recommended brands as category I.		
	MAT-03204	a	70W SV / MH	1 No	2860
	MAT-03205	b	150W SV / MH	1 No	4180
	MAT-03206	c	250W SV / MH	1 No	4620
102		ELEC-3.1.4	Supply of ……..Street light luminaire integral with pressure diecast alluminium housing having pot optics with IP66 protection with all standard accessories etc. Makes : As per list of recommended brands as category II.		
	MAT-03207	a	70W SV / MH	1 No	2420
	MAT-03208	b	150W SV / MH	1 No	3520
	MAT-03209	c	250W SV / MH	1 No	4070
103		ELEC-3.1.5	Supply of …….. Flood light luminaire with Non - integral weather proof diecast alluminium housing with IP65 / IP66 protection with Control Gear Box without lamp. Makes : As per list of recommended brands as category I.		
	MAT-03210	a	1 x 400W MH	1 No	5940
104		ELEC-3.1.6	Supply of …….. Flood light luminaire with Non - integral weather proof diecast alluminium housing with IP65 / IP66 protection with Control Gear Box without lamp. Makes : As per list of recommended brands as category II.		
	MAT-03212	a	1 x 400W MH	1 No	4950
105		ELEC-3.1.7	Supply of …….. Hallozen Flood light luminaire with cast alluminium housing and tough end glass cover with all standard accessories. Makes : As per list of recommended brands.		
	MAT-03214	a	500W	1 No	495
	MAT-03215	b	1000W	1 No	935
		3.2	**LED POST TOP LANTERN**		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			LUMINAIRES		
107	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
108	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
109	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
	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**		
			COPPER BALLASTS		
110		ELEC-3.3.1	Supply of copper ballast. Makes : As per list of recommended brands.		
	MAT-03221	a	70 W SV / MH	1 No	660
	MAT-03222	b	150 W SV / MH	1 No	935

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03223	c	250 W SV / MH	1 No	1430
	MAT-03224	d	400 W SV / MH	1 No	2090
111		ELEC-3.3.2	Supply of 70 W SV / MH copper ballast. Makes : As per list of recommended brands.		
	MAT-03225	a	70 W SV / MH	1 No	523
	MAT-03226	b	150 W SV / MH	1 No	759
	MAT-03227	c	250 W SV / MH	1 No	1100
	MAT-03228	d	400 W SV / MH	1 No	1430
			IGNITOR		
112	MAT-03229	ELEC-3.3.3	Supply of Ignitor for SV / MH Lamp. Makes : As per list of recommended brands.	1 No	165
			HPF CAPACITORS		
113		ELEC-3.3.4	Supply of ….. HPF Capacitor. Makes : As per list of recommended brands.		
	MAT-03230	a	4 mfd	1 No	99
	MAT-03231	b	10 mfd	1 No	165
	MAT-03232	c	15 mfd	1 No	193
	MAT-03233	d	20 mfd	1 No	264
	MAT-03234	e	33 mfd	1 No	385
	MAT-03235	f	42 mfd	1 No	440
		3.4	**LAMPS**		
114		ELEC-3.4.1	Supply of …….. Lamp with ISI mark. Makes : As per list of recommended brands as category I.		
	MAT-03236	a	500W Hallozen	1 No	99
	MAT-03237	b	1000W Hallozen	1 No	121
	MAT-	c	70W SV	1 No	440

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	03238				
	MAT-03239	d	150W SV	1 No	660
	MAT-03240	e	250W SV	1 No	743
	MAT-03241	f	70W MH	1 No	825
	MAT-03242	g	150W MH	1 No	880
	MAT-03243	h	250W MH	1 No	1210
	MAT-03244	i	400W MH	1 No	1430
115		ELEC-3.4.2	Supply of …….. Lamp with ISI mark. Makes : As per list of recommended brands as category II.		
	MAT-03245	a	500W Hallozen	1 No	66
	MAT-03246	b	1000W Hallozen	1 No	99
	MAT-03247	c	70W SV	1 No	352
	MAT-03248	d	150W SV	1 No	633
	MAT-03249	e	250W SV	1 No	688
	MAT-03250	f	70W MH	1 No	798
	MAT-03251	g	150W MH	1 No	853
	MAT-03252	h	250W MH	1 No	1089
	MAT-03253	i	400W MH	1 No	1265
		3.5	**AUTOMATIC STREET LIGHT CONTROL SYSTEMS**		
116		ELEC-3.5.1	Supply of Automatic Street Light Control System with Optical Micro Sensor, Low volatage / High voltage trip and reset, operating voltage 150 - 280V AC, 50 HZ with suitable SMC enclousure 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

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03255	b	3 KW	1 No	12430
	MAT-03256	c	5 KW	1 No	12980
	MAT-03257	d	8 KW	1 No	14850
117		ELEC-3.5.2	Supply of Automatic Street Light Control System with Optical Micro Sensor, Low volatage / High voltage trip and reset, operating voltage 150 - 280V AC per Phase, 50 HZ with suitable SMC enclousure 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
		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 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**		
118		ELEC-3.6.1	Supply of ……. Box type tube light luminaire powder coated CRCA sheet steel housing with Electronic Ballast Chokes and all standard accessories. Makes : As per list of recommended brands as category I.		
	MAT-03263	a	1 x 36/40W	1 No	792
	MAT-03264	b	2 x 36/40W	1 No	1100

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
119		ELEC-3.6.2	Supply of …….. Box type tube light luminaire powder coated CRCA sheet steel housing with Electronic Ballast Chokes and all standard accessories. Makes : As per list of recommended brands as category II.	1 No	
	MAT-03265	a	1 x 36/40W	1 No	715
	MAT-03266	b	2 x 36/40W	1 No	1045
120	MAT-03267	ELEC-3.6.3	Supply of 1 x 36/40W Patty type tube light luminaire powder coated CRCA sheet steel housing with Copper Chokes and all standard accessories. Makes : As per list of recommended brands.	1 No	248
			ACCESSORIES		
121	MAT-03268	ELEC-3.6.4	Supply of 9/13W VPIT Ballast for CFL with ISI mark. Makes : As per list of recommended brands.	1 No	116
122	MAT-03269	ELEC-3.6.5	Supply of 18W VPIT Ballast for CFL with ISI mark. Makes : As per list of recommended brands.	1 No	121
123	MAT-03270	ELEC-3.6.6	Supply of 20W Copper Wound Ballast Makes : As per list of recommended brands.	1 No	121
124	MAT-03271	ELEC-3.6.7	Supply of 40W Copper Wound Ballast. Makes : As per list of recommended brands.	1 No	149
125	MAT-03272	ELEC-3.6.8	Supply of 36/40W VPIT Ballast. Makes : As per list of recommended brands.	1 No	165
126	MAT-03273	ELEC-3.6.9	Supply of 40W Starter. Makes : As per list of recommended brands.	1 No	9
127	MAT-03274	ELEC-3.6.10	Supply of Rotor holder(FTL). Makes : As per list of recommended brands.	1 No	17
128	MAT-03275	ELEC-3.6.11	Supply of FTL Starter holder. Makes : As per list of recommended brands	1 No	17
		3.7	**FLOURSCENT TUBES / CFL LAMPS / LED BULBS**		
129	MAT-03276	ELEC-3.7.1	Supply of 40W-60W Lamp. Makes : As per list of recommended	1 No	13

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			brands.		
130	MAT-03277	ELEC-3.7.2	Supply of 18/20W fluorescent tube. Makes : As per list of recommended brands.	1 No	44
131	MAT-03278	ELEC-3.7.3	Supply of 36/40W fluorescent tube. Makes : As per list of recommended brands.	1 No	44
132		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		
133		ELEC-3.7.5	Supply of ……. Lamp with input voltage 90 to 300V, Colour temparature 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
	MAT-03287	d	7.0W LED	1 No	129
135	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
136	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		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
137		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
138		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.		
	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
139		ELEC-3.8.3	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 > 80 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		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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		
140		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-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, .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

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
141		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 lumins/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-03319	d	15W	1 No	943
	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
142		ELEC-3.8.6	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 > 80 lumins/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		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
143		ELEC-3.8.7	Supply and fixing of..... LED COB Down lighter, suitable for Recessed mounting made of presssure diecast alluminium 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 lumins/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
	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
144		ELEC-3.8.8	Supply and fixing of ..... LED COB Down lighter, suitable for Recessed mounting made of pressurediecast alluminium 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 lumins / 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		
145		ELEC-3.8.9	Supply and Transportation of ..... LED COB Spot Light, suitable for Recessed mounting made of diecast alluminium 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	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
146		ELEC-3.8.10	Supply and fixing of ..... LED COB Spot Light, suitable for Recessed mounting made of diecast alluminium 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
147		ELEC-3.8.11	Supply and fixing of..... LED single colour Wall washer, 1000mm length, IP65, made of diecast alluminium 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
148		ELEC-3.8.12	Supply and fixing of..... LED single colour Wall washer, 1000mm length, IP67, made of diecast alluminium 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		
149	MAT-03348	ELEC-3.8.13	Supply and fixing of 20-24W, not less than 1100mm length LED batten light with extruded alluminium 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

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
150	MAT-03349	ELEC-3.8.14	Supply and fixing of 20-24W, not less than 1100mm length LED batten light with extruded alluminium 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
151	MAT-03350	ELEC-3.8.15	Supply and fixing of 20-24W, not less than 1100mm length LED batten light with extruded alluminium 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
152	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
153	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
154	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

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
155	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
156		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 ≥ 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
157		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 temparature less than 85 degrees centigrade and THD is less than 10% etc., complete. Makes : As per list of recommended brands as category II.		
	MAT-03357	a	36 W	1 No	3036
	MAT-03358	b	45 W	1 No	3404
	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

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
		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, conecting 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	3150
	MAT-08767	b	40W	1 No	5400
			LED STREET LIGHTS		
158		ELEC-3.8.23	Supply and transportation of ..... LED Street light Luminaire made of pressure diecast alluminium body with powder coated, having protective toughned glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's having System efficacy > 100 lm/W and junction temprature < 70°C, with Ingrees 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

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
159		ELEC-3.8.24	Supply and transportation of ..... LED Street light Luminaire made of pressure diecast alluminium body with powder coated, having protective toughned glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's System efficacy >110 lm/W and junction temprature < 70°C, with Ingrees 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
	MAT-03367	d	180W	1 No	14260
	MAT-03368	e	210W	1 No	18400
160		ELEC-3.8.25	Supply and transportation of .....LED Street light Luminaire made of pressure diecast alluminium body with powder coated, having protective toughned glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's System efficacy >100lm/W and junction temprature < 70°C, with Ingrees 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

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03376	h	180W	1 No	13248
	MAT-03377	i	210W	1 No	16146
161		ELEC-3.8.26	Supply and transportation of ..... .LED Street light Luminaire made of pressure diecast alluminium body with powder coated, having protective toughned glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's having System efficacy >90 lm/W and junction temprature < 70°C, with Ingrees 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		
162		ELEC-3.8.27	Supply and transportation of ..... LED Flood light Luminaire made of pressure diecast alluminium housing with powder coated,having protective toughned glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's System efficacy >100lm/W and junction temprature < 70°C, with Ingrees 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
	MAT-03386	c	120W	1 No	12337
	MAT-03387	d	150W	1 No	14490

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	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
163		ELEC-3.8.28	Supply and transportation of ..... LED Flood light Luminaire made of pressure diecast alluminium housing with powder coated,having protective toughned glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's System efficacy >100lm/W and junction temprature < 70°C, with Ingrees 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		
164		ELEC-3.8.29	Supply and transportation of ..... LED HIgh Bay Luminaire with high power COB LED made of pressure diecast alluminium 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 temprature < 70°C, with Ingrees 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-	d	150W	1 No	13340

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	03403				
165		ELEC-3.8.30	Supply and transportation of ..... LED HIgh Bay Luminaire with high power COB LED made of pressure diecast alluminium 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 temprature < 70°C, with Ingrees 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
		ELEC-3.8.31	Supply and transportation of ..... LED Linear Wall washer of Size ..... mm with high power LED's made of pressure diecast alluminium 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 Ingrees 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		
		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

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-05497	b	120W	1 No	26680
		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 alluminium 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 Ingrees protection IP66, IK05,suitable for RGB DMX 512 controller etc., Makes : As per list of recommended brands.		
	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
	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
	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
	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
	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

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	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
	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
			LED DRIVERS		
166		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
167		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**		
168		ELEC-4.1.1	Supply and transportation of following XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I)./1554-I		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands as category I.		
	MAT-03415	a	4 sqmm X2 core	1 RM	105
	MAT-03416	b	6 sqmm X2 core	1 RM	121
	MAT-03417	c	10 sqmm X2 core	1 RM	143
	MAT-03418	d	6 SqmmX 4 core	1 RM	143
	MAT-03419	e	10SqmmX 4 core	1 RM	165
	MAT-03420	f	16 SqmmX 4 core	1 RM	182
	MAT-03421	g	25 SqmmX 3.5 core	1 RM	231
	MAT-03422	h	35SqmmX 3.5 core	1 RM	275
	MAT-03423	i	50 SqmmX 3.5 core	1 RM	358
	MAT-03424	j	70 SqmmX 3.5 core	1 RM	462
	MAT-03425	k	95 SqmmX 3.5 core	1 RM	600
	MAT-03426	l	120 SqmmX 3.5 core	1 RM	726
	MAT-03427	m	150 SqmmX 3.5 core	1 RM	836
	MAT-03428	n	185 SqmmX 3.5 core	1 RM	1023
	MAT-03429	o	240 SqmmX 3.5 core	1 RM	1271
	MAT-03430	p	300SqmmX 3.5 core	1 RM	1540
	MAT-03431	q	400SqmmX 3.5 core	1 RM	1964
169		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	88
	MAT-03433	b	6 sqmm X2 core	1 RM	99

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03434	c	10 sqmm X2 core	1 RM	121
	MAT-03435	d	6 SqmmX 4 core	1 RM	127
	MAT-03436	e	10SqmmX 4 core	1 RM	139
	MAT-03437	f	16 SqmmX 4 core	1 RM	155
	MAT-03438	g	25 SqmmX 3.5 core	1 RM	198
	MAT-03439	h	35SqmmX 3.5 core	1 RM	231
	MAT-03440	i	50 SqmmX 3.5 core	1 RM	306
	MAT-03441	j	70 SqmmX 3.5 core	1 RM	394
	MAT-03442	k	95 SqmmX 3.5 core	1 RM	515
	MAT-03443	l	120 SqmmX 3.5 core	1 RM	633
	MAT-03444	m	150 SqmmX 3.5 core	1 RM	726
	MAT-03445	n	185 SqmmX 3.5 core	1 RM	869
	MAT-03446	o	240 SqmmX 3.5 core	1 RM	1100
	MAT-03447	p	300SqmmX 3.5 core	1 RM	1331
	MAT-03448	q	400SqmmX 3.5 core	1 RM	1727
			33 KV HT XLPE CABLES		
170		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	1584
	MAT-03450	b	3C X 120 Sqmm	1 RM	1760

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03451	c	3C X 150 Sqmm	1 RM	1925
	MAT-03452	d	3C X 185 Sqmm	1 RM	2112
	MAT-03453	e	3C X 240 Sqmm	1 RM	2420
	MAT-03454	f	3C X 300 Sqmm	1 RM	2717
	MAT-03455	g	3C X 400 Sqmm	1 RM	3124
			11 KV HT XLPE CABLES		
171		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	649
	MAT-03457	b	3C X 50 Sqmm	1 RM	737
	MAT-03458	c	3C X 70 Sqmm	1 RM	869
	MAT-03459	d	3C X 95 Sqmm	1 RM	1029
	MAT-03460	e	3C X 120 Sqmm	1 RM	1155
	MAT-03461	f	3C X 150 Sqmm	1 RM	1331
	MAT-03462	g	3C X 185 Sqmm	1 RM	1562
	MAT-03463	h	3C X 240 Sqmm	1 RM	1793
	MAT-03464	i	3C X 300 Sqmm	1 RM	2013
	MAT-03465	j	3C X 400 Sqmm	1 RM	2530
			Un Armoured and Armoured Copper Control Cables		
172		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		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands.		
	MAT-03466	a	2C x 1.5 sq.mm	1 RM	104
	MAT-03467	b	3C x 1.5 sq.mm	1 RM	109
	MAT-03468	c	4C x 1.5 sq.mm	1 RM	127
	MAT-03469	d	5C x 1.5 sq.mm	1 RM	132
	MAT-03470	e	6C x 1.5 sq.mm	1 RM	150
	MAT-03471	f	8C x 1.5 sq.mm	1 RM	173
	MAT-03472	g	10C x 1.5 sq.mm	1 RM	219
	MAT-03473	h	12C x 1.5 sq.mm	1 RM	242
	MAT-03474	i	14C x 1.5 sq.mm	1 RM	270
	MAT-03475	j	19C x 1.5 sq.mm	1 RM	339
	MAT-03476	k	2C x 2.5 sq.mm	1 RM	115
	MAT-03477	l	3C x 2.5 sq.mm	1 RM	132
	MAT-03478	m	4C x 2.5 sq.mm	1 RM	155
	MAT-03479	n	5C x 2.5 sq.mm	1 RM	173
	MAT-03480	o	6C x 2.5 sq.mm	1 RM	242
	MAT-03481	p	8C x 2.5 sq.mm	1 RM	288
	MAT-03482	q	10C x 2.5 sq.mm	1 RM	334
	MAT-03483	r	12C x 2.5 sq.mm	1 RM	374
	MAT-03484	s	14C x 2.5 sq.mm	1 RM	420
	MAT-	t	19C x 2.5 sq.mm	1 RM	489

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	03485				
173		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	109
	MAT-03487	b	2Cx2.5 sq.mm	1 RM	115
	MAT-03488	c	2C x 4 sq.mm	1 RM	144
	MAT-03489	d	2C x 6 sq.mm	1 RM	207
	MAT-03490	e	2C x 10 sq.mm	1 RM	288
	MAT-03491	f	2C x 16 sq.mm	1 RM	397
	MAT-03492	g	3C x 4 sq.mm	1 RM	182
	MAT-03493	h	3C x 6 sq.mm	1 RM	242
	MAT-03494	i	3C x 10 sq.mm	1 RM	301
	MAT-03495	j	3C x 16 sq.mm	1 RM	423
	MAT-03496	k	4C x 4 sq.mm	1 RM	253
	MAT-03497	l	4C x 6 sq.mm	1 RM	362
	MAT-03498	m	4C x 10 sq.mm	1 RM	543
	MAT-03499	n	4C x 16 sq.mm	1 RM	903
	MAT-03500	o	4C x 25 sq.mm	1 RM	1449
	MAT-03501	p	4C x 35 sq.mm	1 RM	1932
	MAT-03502	q	4C x 50 sq.mm	1 RM	2777
	MAT-03503	r	4C x 70 sq.mm	1 RM	4226
			CABLE TERMINATIONS AND ACCESSORIES		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
174		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, prepration 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	13283
	MAT-03505	b	3 core 240/300/400 sqmm	Set	18480
			OUTDOOR		
	MAT-03506	c	3 Core 95/120/150/185 sq mm	Set	18480
	MAT-03507	d	3 core 240/300/400 sqmm	Set	25988
			STRAIGHT THROUGH		
	MAT-03508	e	3 Core 95/120/150/185 sq mm	Set	37538
	MAT-03509	f	3 core 240/300/400 sqmm	Set	54863
175		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, prepration 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	5775
	MAT-03511	b	3 core 70/95 sqmm	Set	8663
	MAT-03512	c	3 core 120/150/185 sqmm	Set	9818
	MAT-03513	d	3 core 240/300 sqmm	Set	10280
	MAT-03514	e	3 core 400/500 sqmm	Set	10857
			OUTDOOR		
	MAT-03515	f	3 core 35/50 sqmm	Set	9818
	MAT-03516	g	3 core 70/95 sqmm	Set	12128
	MAT-03517	h	3 core 120/150/185 sqmm	Set	13283

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03518	i	3 core 240/300 sqmm	Set	14438
	MAT-03519	j	3 core400/500 sqmm	Set	16170
			STRAIGHT THROUGH		
	MAT-03520	k	3 core 35/50 sqmm	Set	15593
	MAT-03521	l	3 core 70/95 sqmm	Set	18480
	MAT-03522	m	3 core 120/150/185 sqmm	Set	21368
	MAT-03523	n	3 core 240/300 sqmm	Set	23100
176		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	1733
	MAT-03525	b	3.5 corex 70/95/120 sq.mm	Set	2772
	MAT-03526	c	3.5 corex 150/185/240 sq.mm	Set	4043
	MAT-03527	d	3.5core x 300/400 sq.mm	Set	6353
	MAT-03528	e	4 corex 6/10/16 sq.mm	Set	924
177		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	248
	MAT-03530	b	3.5core x 35 sq.mm	Set	330
	MAT-03531	c	3.5 corex 50 sq.mm	Set	385
	MAT-03532	d	3.5core x 70 sq.mm	Set	572
	MAT-03533	e	3.5core x 95 sq.mm	Set	655
	MAT-	f	3.5core x 120 sq.mm	Set	825

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	03534				
	MAT-03535	g	3.5core x 150 sq.mm	Set	990
	MAT-03536	h	3.5core x 185 sq.mm	Set	1100
	MAT-03537	i	3.5core x 240sq.mm	Set	1650
	MAT-03538	j	3.5core x 300 sq.mm	Set	1980
	MAT-03539	k	3.5core x 400 sq.mm	Set	2640
	MAT-03540	l	4 core x 6/10/16 sq.mm	Set	253
178		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	72
	MAT-03542	b	4 coreX6/10/16 Sqmm	Set	94
	MAT-03543	c	3.5 coreX25 Sqmm	Set	110
	MAT-03544	d	3.5 coreX 35Sqmm	Set	165
	MAT-03545	e	3.5 coreX50 Sqmm	Set	176
	MAT-03546	f	3.5 coreX70 Sqmm	Set	193
	MAT-03547	g	3.5 coreX95 Sqmm	Set	231
	MAT-03548	h	3.5 coreX120 Sqmm	Set	275
	MAT-03549	i	3.5 coreX150 Sqmm	Set	495
	MAT-03550	j	3.5 coreX185 Sqmm	Set	605
	MAT-03551	k	3.5 coreX240 Sqmm	Set	715
	MAT-03552	l	3.5 coreX300Sqmm	Set	990

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03553	m	3.5 coreX400Sqmm	Set	1320
180		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 followingsize Makes : As per list of recommended brands.		
	MAT-03554	a	up to 16 sqmm	each	23
	MAT-03555	b	25 Sqmm	each	31
	MAT-03556	c	35Sqmm	each	35
	MAT-03557	d	50 Sqmm	each	52
	MAT-03558	e	70 Sqmm	each	78
	MAT-03559	f	95 Sqmm	each	101
181		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	11
	MAT-03561	b	25 Sqmm	each	17
	MAT-03562	c	35Sqmm	each	22
	MAT-03563	d	50 Sqmm	each	28
	MAT-03564	e	70 Sqmm	each	33
	MAT-03565	f	95 Sqmm	each	39
	MAT-03566	g	120 Sqmm	each	44
	MAT-03567	h	150 Sqmm	each	50
	MAT-03568	i	185 Sqmm	each	61
	MAT-03569	j	240 Sqmm	each	88
	MAT-03570	k	300 Sqmm	each	110

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03571	I	400 Sqmm	each	187
		4.2	**CABLE TRAYS**		
182		ELEC-4.2.1	Supply,transporatation & 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	308
	MAT-03573	b	150mm x 50mm x 1.6mm	1 RM	358
	MAT-03574	c	300mm x 50mm x 1.6mm	1 RM	660
	MAT-03575	d	450mm x 50mm x 2.0mm	1 RM	957
	MAT-03576	e	600mm x 50mm x 2.0mm	1 RM	1095
	MAT-03577	f	300mm x 62.5mm x 2.0mm	1 RM	792
	MAT-03578	g	450mm x 62.5mm x 2.0mm	1 RM	1062
	MAT-03579	h	600mm x 62.5mm x 2.0mm	1 RM	1315
	MAT-03580	i	750mm x 62.5mm x 2.0mm	1 RM	1557
	MAT-03581	j	900mm x 62.5mm x 2.0mm	1 RM	1848
	MAT-03582	k	600mm x 75mm x 2.0mm	1 RM	1469
	MAT-03583	l	750mm x 75mm x 2.0mm	1 RM	1617
	MAT-03584	m	900mm x 75mm x 2.0mm	1 RM	1903
183		ELEC-4.2.2	Supply,transporatation & 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	451
	MAT-03586	b	300mm x 50mm x 2.0mm	1 RM	567

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03587	c	450mm x 50mm x 2.0mm	1 RM	748
	MAT-03588	d	600mm x 75mm x 2.0mm	1 RM	924
	MAT-03589	e	750mm x 75mm x 2.0mm	1 RM	979
	MAT-03590	f	900mm x 75mm x 2.0mm	1 RM	1040
		4.3	**DOUBLE WALLED CORRUGATED HDPE PIPE**		
184		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	99
	MAT-03592	b	Outer dia 63mm and Inner dia 51mm	1 RM	127
	MAT-03593	c	Outer dia 78mm and Inner dia 63mm	1 RM	154
	MAT-03594	d	Outer dia 90mm and Inner dia 76mm	1 RM	165
	MAT-03595	e	Outer dia 120mm and Inner dia 103.5mm	1 RM	259
	MAT-03596	f	Outer dia 160 mm and Inner dia 136 mm	1 RM	385
	MAT-03597	g	Outer dia 180 mm and Inner dia 152 mm	1 RM	506
	MAT-03598	h	Outer dia 200 mm and Inner dia 170 mm	1 RM	600
			SECTION - 5		
		5.1	**FANS**		
	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	3295

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	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	3845
185	MAT-03599	ELEC-5.1.3	Supply of 48" (1200mm) Sweep 5 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	2300
186	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	2645
187	MAT-03602	ELEC-5.1.5	Supply of 56" (1400mm) Sweep 5 star rated Ceiling Fan , with double ball bearings, but without Regulator. Makes : As per list of recommended brands.	1 No	2760
188	MAT-03603	ELEC-5.1.6	Supply of 16" (400mm) Wall mounted Fan. Makes : As per list of recommended brands.	1 No	2645
189	MAT-03604	ELEC-5.1.7	Supply of 16" (400mm) Pedestal Fan. Makes : As per list of recommended brands.	1 No	2933
190	MAT-03605	ELEC-5.1.8	Supply of 18" (450mm) Wall mounting / Pedestal Air Circulators. Makes : As per list of recommended brands.	1 No	6210
191	MAT-03606	ELEC-5.1.9	Supply of 24" (600mm) Wall mounting / Pedestal Air Circulators. Makes : As per list of recommended brands.	1 No	7475
192	MAT-03607	ELEC-5.1.10	Supply of 12" (300mm) Cabin fan. Makes : As per list of recommended brands.	1 No	1955
193	MAT-03608	ELEC-5.1.11	Supply of 12" (300mm) Light duty exhaust fan with metalic blades and wire guard etc complete. Makes : As per list of recommended brands.	1 No	1668

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
194	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	1484
195	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	3163
196	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	3680
197	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	4715
		5.2	**WATER HEATERS (Conventional & Solar)**		
198		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	10293
	MAT-03614	b	25 Ltrs	1 No	12075
200		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

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03617	c	500 LPD	1 No	87400
	MAT-03618	d	1000 LPD	1 No	170200
201		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		
202		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
203		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 labour charges etc., complete. Makes : As per list of recommended brands.		
	MAT-03625	a	400 Ltr	1 No	154675

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03626	b	500 Ltr	1 No	189336
		5.3	**ACCESSORIES FOR WATER HEATERS**		
204		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	209
	MAT-03628	b	7" stem thermostat	1 No	187
205	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	248
206		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	715
	MAT-03631	b	2.0 KW	1 No	682
207		ELEC-5.3.4	Supply and fixing of twin ceremic catridge, shock and hard water proof heating element including making connecton testing etc as required		
	MAT-03632	a	3.0 KW	1 No	825
	MAT-03633	b	2.0 KW	1 No	715
208		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	1540
209	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	275
210	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	440
211	MAT-03637	ELEC-5.3.7	Charges for descaling of storage water heater including required chemical, opening, refixing,	job	330

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			testing as complete		
212	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	715
		5.4	**PUMPSETS**		
			SINGLE PHASE SUBMERSIBLE MOTOR PUMP SETS		
213		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
	MAT-03642	d	1.50HP 21 Stage	1 No	22275
	MAT-03643	e	2.00HP 25 Stage	1 No	26730
		f			
214		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 ± 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

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
		f			
			THREE PHASE SUBMERSIBLE MOTOR PUMP SETS.		
215		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 ± 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
216		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 ± 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
217		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 ± 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

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	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
	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
218		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 ± 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
	MAT-03678	i	10HP, 20-24 Stage	1 No	51480

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	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		
219		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	12320
	MAT-03686	b	1.50HP	1 No	13860
	MAT-03687	c	3.00HP	1 No	18920
220		ELEC-5.4.8	Supply and Transportation of ……...Single phase open well ISI submersible motor pumpsetconfirms to IS 14220 : 1994. Makes : As per list of recommended brands as category II.		
	MAT-03688	a	1.00HP	1 No	11550
	MAT-03689	b	1.50HP	1 No	13200
	MAT-03690	c	3.00HP	1 No	17985
			THREE PHASE OPEN WELL SUBMERSIBLE PUMP SETS		
221		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	18920
	MAT-03692	b	5.00HP(75x65)	1 No	23650
	MAT-03693	c	7.50HP(100x75)	1 No	28050
	MAT-	d	10.00HP(100x75)	1 No	35750

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	03694				
222		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	18150
	MAT-03696	b	5.00HP(75x65)	1 No	22220
	MAT-03697	c	7.50HP(100x75)	1 No	26400
	MAT-03698	d	10.00HP(100x75)	1 No	34100
			SINGLE PHASE MONO BLOCK MOTOR PUMP SETS.		
223		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	5500
	MAT-03700	b	1.0HP (25x25mm)	1 No	7865
	MAT-03701	c	1.5HP(32x25mm)	1 No	10560
224		ELEC-5.4.12	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 II.		
	MAT-03702	a	0.5HP(25x25mm)	1 No	5170
	MAT-03703	b	1.0HP (25x25mm)	1 No	7480
	MAT-03704	c	1.5HP(32x25mm)	1 No	10065
225		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	15620
	MAT-03706	b	3.0HP (50x50mm)	1 No	21120
	MAT-03707	c	5.00HP(80x80mm)	1 No	25520
226		ELEC-5.4.14	Supply and Transportation of……. Three phase ISI self priming Mono block IP44 motor pumpset .		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands as category II.		
	MAT-03708	a	2.00HP(40x40mm)	1 No	14850
	MAT-03709	b	3.0HP (50x50mm)	1 No	20130
	MAT-03710	c	5.00HP(80x80mm)	1 No	24420
			CONTROL PANEL BOARD FOR MOTOR PUMPSETS		
227	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	4950
228	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, 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	6600
229		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		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			Voltmeter & Ammeter selector switch - 2 Nos		
			Supply and fixing of ISI Mark suitable capacitor		
230	MAT-03713	a	Upto 7.5 HP with DOL Starter of.	1 No	8800
231	MAT-03714	b	above 7.5 HP to 12.5 HP with Star-Delta Starter	1 No	15400
232	MAT-03715	c	From 15 HP up to 20 HP with Automatic Star Delta Starter	1 No	20350
233		ELEC-5.4.18	Supply & Fixing of D.O.L Starter 250V, Single phase, 50Hz. With SS enclouser 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	1045
234		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	1870
	MAT-03718	b	5 to 7.5 HP	1 No	2090
	MAT-03719	c	10 HP	1 No	2310
235		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	7480
	MAT-03721	b	25HP to 30HP	1 No	12342
			UPVC PIPES AND FITTINGS		
236		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	143
	MAT-03723	b	48 / 40mm UPVC pipe with standing upto 20 Kgs / CM2 upto 200 Mts	1RM	176

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03724	c	60/50 mm UPVC pipe with standing upto 20 Kgs / CM2 upto 200 Mts	1RM	253
	MAT-03725	d	75/65 mm UPVC pipe with standing upto 20 Kgs / CM2 upto 200 Mts	1RM	341
	MAT-03726	e	88/80 mm UPVC pipe with standing upto 20 Kgs / CM2 upto 200 Mts	1RM	490
237	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	44
238	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	61
239	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	66
240	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	77
241	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	88
242		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	633
	MAT-03733	b	2" (60/50mm)	1NO	836
	MAT-03734	c	2 1/2" (75/65 mm)	1NO	1078
243		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	396
	MAT-03736	b	2" (60/50mm)	1NO	440

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03737	c	2 1/2" (75/65 mm)	1NO	605
	MAT-03738	d	3"(88/80 mm)	1NO	880
		5.5	**AIR CONDITIONERS**		
244		ELEC-5.5.1	Supply **of .....**split AC unit with high wall mounted indoor unit and outdoor condencing unit Hermetically sealed compressor suitable for operation on 230V, 50Hz, 1Phase AC supply capable of performing cooling dehumidifying air circulating and filtering with cooling and condensing units with 3 mts of copper piping, insulation kit and 4 mts of 3 core copper flexible cable including cordless remote control etc.		
			1.5TR Split ACs		
	MAT-03743	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
	MAT-03744	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		
	MAT-03747	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
	MAT-03748	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
			Inverter Split AC Unts (Cooling Only)		
245		ELEC-5.5.2	Supply of .....INVERTER Model Cool type split AC unit with high wall mounted Single Split indoor unit and outdoor condencing 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.		
			0.8/ 1.0TR Split ACs		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	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.		39675
	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.		33925
	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.		44275
	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.		38525
			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	55775
	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	53475
	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	65550
	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	62100
	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	76475
	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	1 No	67850

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			brands as category II.		
			INVERTER CASSETTE TYPE AC UNITS		
246		ELEC-5.5.35	Supply **of ..... inverter Cassette type** AC unit with ceiling mounted indoor unit and outdoor condencing 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	83950
	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	89700
	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	86250
	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	158700
	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	155825
	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	163300
	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	1 No	148350

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			brands as category II.		
			TOWER MODEL (Vertical) TYPE AC UNITS		
247		ELEC-5.5.36	Supply **of Slim line / Tower Model/Verticool type .....**split AC unit with indoor unit and floor mounted outdoor condencing 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 woth operating on refrigerant R-32/R-410.Makes : As per list of recommended brands.	1 No	104650
	MAT-03767	b	3.8 /4.0TR Three Phase capable of delivering 45600BTU/hr and above woth operating on refrigerant R-32/R-410. Makes : As per list of recommended brands.	1 No	110975
	MAT-03768	c	4.5/ 4.6TR Three Phase capable of delivering 55200 BTU/hr and above woth operating on refrigerant R-32/R-410. Makes : As per list of recommended brands.	1 No	120750
			HVAC SYSTEMS(VRV/VRF)		
248		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 : Hermitic sealed Inverter **Scroll/Twin Rotary**		
			ODU should delvier the required capacity at the ambient conditions of the place as per ISHRAE Standards.		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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-03769	a	6 HP	1 No	166750
	MAT-03770	b	8 HP	1 No	181700
	MAT-03771	c	10 HP	1 No	225400
	MAT-03772	d	12 HP	1 No	253000
	MAT-03773	e	14 HP	1 No	286350
	MAT-03774	f	16 HP	1 No	326600
	MAT-03775	g	18 HP	1 No	358800
	MAT-03776	h	20 HP	1 No	394450
		ELEC-5.6.2	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 II.		
			Type of Compressor : Hermitic sealed Inverter **Scroll/Twin Rotary**		
			ODU should delvier 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	153525
	MAT-05518	b	8 HP	1 No	166750

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-05519	c	10 HP	1 No	207345
	MAT-05520	d	12 HP	1 No	232760
	MAT-05521	e	14 HP	1 No	263350
	MAT-05522	f	16 HP	1 No	300150
	MAT-05523	g	18 HP	1 No	330050
	MAT-05524	h	20 HP	1 No	362250
	MAT-03777	ELEC-5.6.3	Supply and Installation of Ref Nets for Double ODU connections	1 No	5520
250	MAT-03778	ELEC-5.6.4	Supply and Installation of Ref Nets for Triple ODU connections	1 No	10580
251	MAT-03779	ELEC-5.6.5	Supply and Installation of Multi Connection Joint / Ref Nets for IDUs	1 No	4830
252		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	31625
	MAT-03781	b	1.6 TR	1 No	34500
	MAT-03782	c	2.0 TR	1 No	35650
		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	31740
	MAT-05526	b	1.6 TR	1 No	32775
	MAT-05527	c	2.0 TR	1 No	32775

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
253		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	42090
	MAT-03784	b	1.5/1.6 TR	1 No	47150
	MAT-03785	c	2.0 TR	1 No	48300
	MAT-03786	d	2.6 TR	1 No	52900
	MAT-03787	e	3.2 TR	1 No	54050
	MAT-03788	f	4.0 TR	1 No	55200
	MAT-03789	g	4.5 TR	1 No	57845
		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	38640
	MAT-05529	b	1.5/1.6 TR	1 No	43355
	MAT-05530	c	2.0 TR	1 No	44390
	MAT-05531	d	2.6 TR	1 No	48645
	MAT-05532	e	3.2 TR	1 No	49680
	MAT-05533	f	4.0 TR	1 No	50600
	MAT-	g	4.5 TR	1 No	53130

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	05534				
254		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	57845
	MAT-03791	b	4.0 TR	1 No	60720
	MAT-03792	c	4.5 TR	1 No	71875
	MAT-03793	d	5.5 TR	1 No	96830
	MAT-03794	e	6.3 TR	1 No	102005
	MAT-03795	f	8.0 TR	1 No	107525
		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	52900
	MAT-05536	b	4.0 TR	1 No	55200
	MAT-05537	c	4.5 TR	1 No	66125
	MAT-05538	d	5.5 TR	1 No	88550
	MAT-05539	e	6.3 TR	1 No	93150
	MAT-05540	f	8.0 TR	1 No	98900
255	MAT-03796	ELEC-5.6.12	Supply, Installation, Testing & Commissioning Simple wireless remote contoller to control the IDUs with Machine coding, ON-OFF & Temp. setting of individual IDU and group of IDU.		1610

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
256		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	95048
	MAT-03798	b	6TR	1 No	114540
	MAT-03799	c	8TR	1 No	120750
		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	87400
	MAT-05542	b	6TR	1 No	104650
	MAT-05543	c	8TR	1 No	110975
			HVAC-LOW SIDE WORKS		
257		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	8050
	MAT-03801	b	10 to 12 HP	1 No	11500
	MAT-03802	c	14 to 20 HP	1 No	13800
258		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	1380

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
259		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	1725
	MAT-03805	b	2.6 TR to 4.5 TR	1 No	2875
260		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	3450
	MAT-03807	b	5.5 TR to 8.0 TR	1 No	5175
261		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	5175
			Refrigerant Piping		
262		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,Liqid 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	1323
	MAT-	b	28.6 mm dia	Rmt	1208

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	03810				
	MAT-03811	c	22.2 mm dia	Rmt	1093
	MAT-03812	d	19.1 mm dia	Rmt	978
	MAT-03813	e	15.9 mm dia	Rmt	863
	MAT-03814	f	12.7 mm dia	Rmt	748
	MAT-03815	g	9.5 mm dia	Rmt	552
	MAT-03816	h	6.4 mm dia	Rmt	483
263		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	173
	MAT-03818	b	32 mm dia	Rmt	207
	MAT-03819	c	40mm dia	Rmt	253
	MAT-03820	d	50 mm dia	Rmt	299
			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	
264	MAT-03821	ELEC-5.6.22	Supply and transportation of R 410A Gas for the system.	kg	1208
265	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	1438
266	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	85100

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
267		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 asper IS 655 /SMACNA Standards.Makes : As per list of recommended brands.		
	MAT-03824	a	24 G	sqm	949
	MAT-03825	b	22 G	sqm	1064
	MAT-03826	c	20 G	sqm	1265
	MAT-03827	d	18 G	sqm	1380
			Thermal Insulation		
268	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	667
			Accoustic Insulation		
269		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	1035
270	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	9775
271	MAT-03831	ELEC-5.6.29	Supply, Installation, Testing and commissioning of extruded Aluminum powder coated grills/ diffusers for retrun with removable core type without collar damper	sqm	7130
272	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	6210
273	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	4945
274	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	748

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
275	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	7475
276	MAT-03836	ELEC-5.6.34	Supply and Installation of GI backdraft dampers as per UL 555 Standard,	sqm	6210
277	MAT-03837	ELEC-5.6.35	Supply, installation and testing of Canvas connection for the Treated Fresh Air units to the duct	each	2530
		5.7	**EVAPORATIVE AIR COOLING SYSTEM**		
278	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 polypropylenematerial, blower water pump of 40W, single phase 1.20 KW motor axial type fan with variable speed, 20 micron filteration, noise levelless than 78 dBA with auto cleaning,humidity control and water lack protection etccomplete. Makes : As per list of recommended brands.	1 No	120750
279	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 filteration, noise level less than 78 dBA with auto cleaning and water lack protection etc complete. Makes : As per list of recommended brands.	1 No	207000
280	MAT-03840	ELEC-5.7.3	Supply and fixing of 13mm thick Nitrile insulation for out door unit.	1 sft	63
281	MAT-03841	ELEC-5.7.4	Supply and fixing of 50mm thick glasswool of 24 kg density with alluminium foil insulation for indoor duct.	1 sft	67
282	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	5750
283	MAT-03843	ELEC-5.7.6	Installation and commissioning charges for air cooling unit	1 No	4140
		5.8	**STABILIZERS**		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
284		ELEC-5.8.1	Supplly of …….. Stabilizer. Makes : As per list of recommended brands as category I.		
	MAT-03844	a	0.5 KVA	1 No	943
	MAT-03845	b	1.0 KVA	1 No	1668
	MAT-03846	c	3.0 KVA	1 No	2300
	MAT-03847	d	4.0 KVA	1 No	3105
	MAT-03848	e	5.0 KVA	1 No	3795
285		ELEC-5.8.2	Supplly of …….. Stabilizer. Makes : As per list of recommended brands as category II.		
	MAT-03849	a	0.5 KVA	1 No	776
	MAT-03850	b	1.0 KVA	1 No	1495
	MAT-03851	c	3.0 KVA	1 No	1955
	MAT-03852	d	4.0 KVA	1 No	2875
	MAT-03853	e	5.0 KVA	1 No	3565
		5.9	**REPAIRING OF FANS, COOLERS, PUMPS, MOTORS, FRIDGES AND AIRCONDITIONERS**		
286		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. (New model ceiling fan)		
	MAT-03854	a	900/1200 mm sweep	1 No	406
	MAT-03855	b	1400 mm sweep	1 No	488
287	MAT-03856	ELEC-5.9.2	Charges for oiling, greasing, overhauling of ceiling fan, table fan, pedestal fan irrespect to the size of fan including removing,refixing of fan from site and testing etc. as required	1 No	165
288	MAT-03857	ELEC-5.9.3	Providing and Replacement of ball bearing of ceiling/ exhaust fan as required. (NBC/ SKF)	1 No	193

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
289	MAT-03858	ELEC-5.9.4	Providing and Replacement of Gun metal bush of ceiling/ exhaust/cooler fan/ as required	1 No	165
290	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	275
291	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	495
292	MAT-03861	ELEC-5.9.7	Replacement of cooler pads (heavy) set of 3 no. of size 25" x 27"	1 No	165
293	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	220
294	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	396
295	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	193
296		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	688
	MAT-03866	b	450 mm sweep	1 No	813
	MAT-03867	c	600 mm sweep	1 No	1375
297	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,turnsand 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	438

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
298		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	840
	MAT-03870	b	2.0 H.P	1 No	1380
299		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	2040
	MAT-03872	b	5.0 H.P.	1 No	2880
	MAT-03873	c	7.5 H.P	1 No	3120
	MAT-03874	d	10.0 H.P	1 No	4200
	MAT-03875	e	12.5 H.P	1 No	4440
	MAT-03876	f	15.0 H.P	1 No	5400
300		ELEC-5.9.15	Supply and charging of fresh refrigerant and testing of performance of air conditioner/ fridge/ water cooler of following capacity including capallary and strainer/ filter.		
	MAT-03877	a	1.0 TR Window/ Split A.C	1 No	2090
	MAT-03878	b	1.5 TR Window/ Split A.C	1 No	2310
	MAT-03879	c	2.0 TR Window/ Split A.C	1 No	2750
	MAT-03880	d	25/50 / 40/80 Ltr. Water cooler	1 No	2200
	MAT-03881	e	60/120 Ltr. Water cooler	1 No	2530
	MAT-03882	f	150/150 Ltr. Water cooler	1 No	3080

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03883	g	165 Ltr Refrigerator	1 No	1375
	MAT-03884	h	200/210 Ltr Refrigerator	1 No	1980
	MAT-03885	i	286/310 Ltr Refrigerator	1 No	2310
301		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	6600
	MAT-03887	b	60/120 Ltr. Water cooler	1 No	8360
	MAT-03888	c	150/150 Ltr. Water cooler	1 No	9900
	MAT-03889	d	165 Ltr Refrigerator)	1 No	3410
	MAT-03890	e	200/210 Ltr Refrigerator	1 No	4180
	MAT-03891	f	286/310 Ltr Refrigerator	1 No	4730
302		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	10450
	MAT-03893	b	2 TR	1 No	11495
303		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	3922
	MAT-03895	b	1.5 TR A.C.	1 No	4428
	MAT-03896	c	2.0 TR A.C.	1 No	4934
	MAT-03897	d	25/50 / 40/80 Ltr. Water cooler	1 No	2640
	MAT-03898	e	60/120 Ltr. Water cooler	1 No	3850

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03899	f	150/150 Ltr. Water cooler	1 No	3850
	MAT-03900	g	165 Ltr Refrigerator	1 No	1210
	MAT-03901	h	200/210 Ltr Refrigerator	1 No	1320
	MAT-03902	i	286/310 Ltr Refrigerator	1 No	1705
304	MAT-03903	ELEC-5.9.19	Replacement of overload protection of A.C./ Water cooler as required	1 No	550
305	MAT-03904	ELEC-5.9.20	Replacement of thermostat of A.C./ Water cooler/fridge as required.	1 No	495
306	MAT-03905	ELEC-5.9.21	Replacement of starting relay of A.C/water cooler/fridge compressor as required	1 No	539
307	MAT-03906	ELEC-5.9.22	Spray painting of complete fridge (inside and outside) of 165/ 200/286/310 Ltr. Capacity	1 No	1760
308		ELEC-5.9.23	Supply and fixing of 230V/ 275V, 50Hz rating …….		
			Starting capacitor		
	MAT-03907	a	20-60 micro farad	1 No	220
	MAT-03908	b	80-150 micro farad	1 No	440
			Running capacitor	1 No	
	MAT-03909	a	2.5/3.15/4.0/6.0 micro farad	1 No	83
	MAT-03910	b	8.0 micro farad	1 No	121
	MAT-03911	c	10.0 micro farad	1 No	165
	MAT-03912	d	15.0 to 36.0 micro farad	1 No	385
309	MAT-03913	ELEC-5.9.24	Supply, Fabrication of 1set MS bracket suitable for fixing out door unit of split AC unit.	1 Set	1320
310		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.		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03914	a	**1/2" x 1/4"**	1 Mtr	891
	MAT-03915	b	**5/8" x 1/4"**	1 Mtr	979
	MAT-03916	c	**3/4" x 3/8"**	1 Mtr	1073
	MAT-03917	d	**7/8" x 1/2"**	1 Mtr	1210
	MAT-03918	e	**1 1/8" x 5/8"**	1 Mtr	1485
311	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	1568
312	MAT-03920	ELEC-5.9.27	Air filter suitable for 1.50 Ton Window A.C.Unit P.V.C. / NYLON.	1 No	275
313	MAT-03921	ELEC-5.9.28	Air filter suitable for 1.50 Ton Split A.C.Unit P.V.C. / NYLON.	1 No	473
314	MAT-03922	ELEC-5.9.29	Fan blade for 1.0 / 1.5 Ton A.C.Machine.	1 No	550
315	MAT-03923	ELEC-5.9.30	Installation of Split Air Conditioners.	1 No	2000
316	MAT-03924	ELEC-5.9.31	Removing of existing Split Air Conditioners without damaging to copper pipe.	1 No	660
317	MAT-03925	ELEC-5.9.32	Installation of Cassette type Split Air Conditioners.	1 No	5000
318	MAT-03926	ELEC-5.9.33	Installation of Tower type Split Air Conditioners.	1 No	3750
319	MAT-03927	ELEC-5.9.34	Supply, Fabrication of 1set MS bracket suitable for fixing out door unit of 3.5 /4.50 TR Casseete AC unit.	1 Set	1870
	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	650
	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	575
	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	1 Job	780

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			cooling Coil etc., by blower and oiling the Fan Motor and Cleaning all parts and putting the machine in working condition.		
			SECTION 6		
		6.1	**SWAGED / OCTAGONAL POLES AND GARDEN POSTS**		
320	MAT-03928	ELEC-6.1.1	Fabrication, supply and transportation of all sizes swaged poles up to site confirming 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	74
321	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	67
322	MAT-03930	ELEC-6.1.3	Supply of different sizes of M. S. Pipe brackets (Rate per K.G)	1 Kg	67
			OCTOGONAL POLEs		
323	MAT-03931	ELEC-6.1.4	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 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	12936
324	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	1 No	18700

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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.		
325	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	20559
326	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	29700
			DECORATIVE DRAGON TYPE BRACKET WITH POLE		
327		ELEC-6.1.8	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 suitableboards 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 of1.5M **Dragon type**decorative		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands.		
	MAT-03935	a	galvanised double arm with PU Painted bracket.	1 No	29260
	MAT-03936	b	galvanised Single arm with PU Painted bracket.	1 No	25080
	MAT-05544	c	Double arm GalvanizeFinished bracket	1 No	24750
	MAT-05545	d	Single arm GalvanizeFinished bracket	1 No	22440
328		ELEC-6.1.9	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 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
329		ELEC-6.1.10	Fabrication, Transportation and supply of hot-dip .....**PU Paint finish Curved 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 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. Makes : As per list of recommended brands.		
	MAT-03937	a	Galvanized	1 No	24530
	MAT-05546	b	Galvanized PU paint finshed	1 No	33220

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			POLE BRACKETS		
330	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	1430
331	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	1892
332	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	1771
334	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	5280
335	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	10010
336	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	5830
337	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	4510

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
338	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	4730
339	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	3960
			HIGH MAST POLES		
340	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 suiatble 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, suitable for 6 luminaires with GLS type aviation twin lamp. Makes : As per list of recommended brands.	1 No	115500
341	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	1 No	151800

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			suiatble 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 with GLS type aviation twin lamp. Makes : As per list of recommended brands.		
342	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 suiatble 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 with GLS type aviation twin lamp. Makes : As per list of recommended brands.	1 No	196350
			FEEDER PILLAR BOXES		
343	MAT-03951	ELEC-6.1.24	Supply and fixing of suitable out door type feeder piller 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	20130

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
344	MAT-03952	ELEC-6.1.25	Supply and fixing of suitable out door type feeder piller 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	20790
			ERRECTION- HIGH MAST POLES		
345	MAT-03953	ELEC-6.1.26	Earth work exacavation with a approximate quantity of 4.0 Cum for errection 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 errection of High Mast and Carraige etc complete.	1 No	31240
346	MAT-03954	ELEC-6.1.27	Earth work exacavation with a approximate quantity of 6.0 Cum for errection 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 errection of High Mast and Carraige etc complete.	1 No	39050
347	MAT-03955	ELEC-6.1.28	Earth work exacavation with a approximate quantity of 7.0 Cum for errection 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 errection of High Mast and Carraige etc complete.	1 No	50160
348		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-	a	155 X 210 X 92	1 No	1815

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	03956				
	MAT-03957	b	205 X 255 X112	1 No	2640
	MAT-03958	c	225 X 295 X 122	1 No	9295
	MAT-03959	d	255 X 600 X 170	1 No	10230
			FOUNDATION AND ERRECTION CHARGES OF POLES		
349	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	4620
350	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 excavation of Earth/BT all labour charges and cost and conveyance of materials etc.complete.	1 Job	5390
351	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	7260

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
352	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 withnecessary 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	8910
			GRP POLES		
353		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	9350
	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	11880
	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	14850
	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	19140
	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	20900
	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	30250
354		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	1705

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-03971	b	…do…. For 4.00 Mtrs Pole	1 No	1705
	MAT-03972	c	…do…. For 6.00 Mtrs Pole	1 No	2035
	MAT-03973	d	…do…. For 8.00 Mtrs Pole	1 No	2365
	MAT-03974	e	…do…. For 9.00 Mtrs Pole	1 No	4510
	MAT-03975	f	…do…. For 10.00 Mtrs Pole	1 No	5610
		6.2	**LT PANEL AND ACCESSORIES**		
355	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 abricated from CPRI approved fabricator).	1 sqm	4675
356		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	413
	MAT-03978	b	Electrolytic grade copper bus bar	kg	825

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
357		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
358		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. 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
359		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
360	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
361	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

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
362		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.		
	MAT-03991	a	Single Phase	1 No	1100
	MAT-03992	b	Three Phase	1 No	3080
363		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
364		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
365	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
366		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 disconnector (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	220
	MAT-03999	b	Heavy duty Three phase 440 V , 50 Hz capacitor (Bank)	1 KVAR	330

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
367	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	20350
368		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	385
	MAT-04002	b	32 A	1 No	495
	MAT-04003	c	63 A	1 No	715
			Two pole		
	MAT-04004	d	16 A	1 No	440
	MAT-04005	e	32 A	1 No	583
	MAT-04006	f	63 A	1 No	963
			Three pole		
	MAT-04007	g	16 A	1 No	550
	MAT-04008	h	32 A	1 No	770
	MAT-04009	i	63 A	1 No	1375
			Four pole		
	MAT-04010	j	16 A	1 No	550
	MAT-04011	k	32 A	1 No	825
	MAT-	l	63 A	1 No	1540

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	04012				
369		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	880
	MAT-04014	b	13 to 32 Amp	1 No	1458
	MAT-04015	c	35 to 40 Amp	1 No	1760
	MAT-04016	d	41 to 50 Amp	1 No	3850
			4 pole AC 1 Rating contactors		
	MAT-04017	e	Up to 25 Amp	1 No	1100
	MAT-04018	f	26 to 32 Amp	1 No	1320
	MAT-04019	g	33 to 45 Amp	1 No	2200
	MAT-04020	h	46 to 60 Amp	1 No	4620
370		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	1760
	MAT-04022	b	7 to 10 KVAR	1 No	1980
	MAT-04023	c	11 to 20 KVAR	1 No	2970
	MAT-04024	d	21 to 25 KVAR	1 No	3960
	MAT-04025	e	30 KVAR	1 No	5720
	MAT-	f	40 KVAR	1 No	9130

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	04026				
	MAT-04027	g	50 KVAR	1 No	10560
371		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	1320
	MAT-04029	b	15 to 20 A	1 No	1760
	MAT-04030	c	21 to 30 A	1 No	2530
	MAT-04031	d	31 to 40 A	1 No	2860
372		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-04032	a	Non luminous type	1 No	105
	MAT-04033	b	Luminous type	1 No	143
		6.3	**SUB STATION EQUIPMENT AND TRANSFORMERS**		
373	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	26400
			(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.		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	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 massonry 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 chargesd mechanis with 2 no + 2 NC. b) HT HRC fuse upto 63A - 3 nos. c) Bus bar connection. d) Indication lamps. e) Manual trip Push buttion.		132000
			33 KV HT Panel (drawout type)		
374	MAT-04035	ELEC-6.3.2	Supply, Installation, Testing and Commissioning of indoor type floor mounted metal clad, **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. 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 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	1No	2920500

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			brands.		
			INCOMER 1 No. each comprising the following		
			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		
			TNC Switch, L-R Switch, Pushbuttons for ON-OFF		
			OUTGOING 2 Nos. each comprising the following		
			1 No. 800 Amp. VCB.31.5KA		
			1 No. Integral Earth switch for line side earthing		
			3 No. dual core CTs 300A/1/1A of 7.5VA burden max and accuracy Class 0.5 for metering and class 5P10 for protection		
			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.		
			Set of MCBs for Panel AC/DC		
			Set of Indication lamps LED types		
			TNC Switch, L-R Switch, Pushbuttons		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			for ON-OFF		
			11KV HT Panel (drawout type)		
375	MAT-04036	ELEC-6.3.3	Supply, Installation, Testing and Commissioning of indoor type floor mounted metal clad, **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. 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 1 No. each comprising the following</u>		
			1 No. 800 Amp. VCB. 26.3KA		
			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		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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		
			OUTGOING 2 Nos. comprising the following		
			1 No. 800 Amp. VCB. 26.3KA		
			1 No. Integral Earth switch for line side earthing		
			3 No. dual core CTs 300A/1/1A of 7.5VA burden max and accuracy Class 0.5 for metering and class 5P10 for protection		
			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.		
			Set of MCBs for Panel AC/DC		
			Set of Indication lamps LED types		
			TNC Switch, L-R Switch, Pushbuttons for ON-OFF		
			Oil Immersed TRANSFORMERS		
376		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	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands as category I.		
	MAT-04037	a	630 KVA	1 No	1127000
	MAT-04038	b	1000 KVA	1 No	1437500
	MAT-04039	c	1250 KVA	1 No	1725000
	MAT-04040	d	1600 KVA	1 No	2139000
	MAT-04041	e	2000 KVA	1 No	2645000
		ELEC-6.3.4 A	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 Makes : As per list of recommended brands as category II.		
	MAT-08768	a	630 KVA		980000
	MAT-08769	b	1000 KVA		1250000
	MAT-08770	c	1250 KVA		1500000
	MAT-08771	d	1600 KVA		1860000
	MAT-08772	e	2000 KVA		2300000
		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 3. Service & Location: Continuous Outdoor		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			Distribution Transformer 4. Mounting : Plinth. 5. Wound : Copper Double wound 6. Type : Core type oil immersed 7. Cooling : ONAN 8. Temp Rise : 40ºC in oil, 45ºC by resistance 9. Vector Group: Dyn 11 10. Primary Connection : Delta 11. Nominal Voltage / Current : _ 12. Highest system Voltage: 12000V 13. Primary Frequency :50 HZ +/- 3% 14. Number of Phases : 3 15. Primary wires: 3 16. Secondary connection : Star 17. Secondary Volts / Current : 433V 18. Secondary phases : 3 19. Secondary wires: 4 20. Taps on primary winding for primary voltage variation : +5% to -10% in steps of 2.5% of 7 position (6 Steps) 21. Terminal arrangement. a.HV: HT terminal box as per the sitecondition. b. LV: Cable box suitable to receive --- --- --Sq.mm XLPE cable 22. LV:One separate terminal for earthing. 23. Total Losses at 50% Loading [Watts] [Max] --- as per IS 24. Total Losses at 100% Loading [Watts] [Max]--- as per IS 25.Percentage Impedance at 75 deg. C at -----as per IS 26. No Load current: Less than 2% of full load current. 27. Standard Fittings & Accessories. a. Rating and terminal marking plate: One b. Lifting Lugs: Two c. Off-circuit tap switch :One d. Earthing Terminals :Two e. Radiators (Attachable):Adequate f. Explosion vent with Diaphragm :One g. Conservator with Drain plug: one h. Oil filling hole with cap :One i. Oil level indicator : One j. Dehydrating Silica gel Breather : One k. Terminal Arrangement: HV With TerminalBox l. Terminal Arrangement : LV Cable		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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	360000
	MAT-04043	b	160 KVA Copper Wound Transformer	1 No	594000
	MAT-04044	c	250 KVA Copper Wound Transformer	1 No	713000
	MAT-04045	d	315 KVA Copper Wound Transformer	1 No	950000
	MAT-04046	e	500 KVA Copper Wound Transformer	1 No	1247000
	MAT-04047	f	630 KVA Copper Wound Transformer	1 No	1343000
	MAT-04048	g	1000 KVA Copper Wound Transformer	1 No	1758000
		ELEC-6.3.5 A	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 II.		
			1. Quantity : 1 2. Rated KVA : .....KVA 3. Service & Location: Continuous OutdoorDistribution Transformer 4. Mounting : Plinth. 5. Wound : Copper Double wound 6. Type : Core type oil immersed 7. Cooling : ONAN 8. Temp Rise : 40ºC in oil, 45ºC by resistance 9. Vector Group: Dyn 11 10. Primary Connection : Delta 11. Nominal Voltage / Current : _ 12. Highest system Voltage: 12000V 13. Primary Frequency :50 HZ +/- 3% 14. Number of Phases : 3 15. Primary wires: 3 16. Secondary connection : Star 17. Secondary Volts / Current : 433V 18. Secondary phases : 3 19. Secondary wires: 4 20. Taps on primary winding for primary voltage variation : +5% to - 10% in steps of 2.5% of 7 position (6 Steps) 21. Terminal arrangement. a.HV: HT terminal box as per the sitecondition.		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			b. LV: Cable box suitable to receive ---------- --Sq.mm XLPE cable 22. LV:One separate terminal for earthing. 23. Total Losses at 50% Loading [Watts] [Max] --- as per IS 24. Total Losses at 100% Loading [Watts] [Max]--- as per IS 25.Percentage Impedance at 75 deg. C at -----as per IS 26. No Load current: Less than 2% of full load current. 27. Standard Fittings & Accessories. a. Rating and terminal marking plate: One b. Lifting Lugs: Two c. Off-circuit tap switch :One d. Earthing Terminals :Two e. Radiators (Attachable):Adequate f. Explosion vent with Diaphragm :One g. Conservator with Drain plug: one h. Oil filling hole with cap :One i. Oil level indicator : One j. Dehydrating Silica gel Breather : One 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-08773	a	100 KVA Copper Wound Transformer	1 No	325500
	MAT-08774	b	160 KVA Copper Wound Transformer	1 No	550000
	MAT-08775	c	250 KVA Copper Wound Transformer	1 No	650000
	MAT-08776	d	315 KVA Copper Wound Transformer	1 No	800000
	MAT-08777	e	500 KVA Copper Wound Transformer	1 No	1050000
	MAT-08778	f	630 KVA Copper Wound Transformer	1 No	1130000
	MAT-08779	g	1000 KVA Copper Wound Transformer	1 No	1480000
		ELEC-6.3.5 B	Supply and Transportation of ISI marked copper wound Transformers		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (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	1593000
	MAT-08781	b	1000 KVA	1 No	2008000
		ELEC-6.3.5 C	Supply and Transportation of ISI marked copper wound Transformers 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 II.		
	MAT-08782	a	630 KVA	1 No	1355000
	MAT-08783	b	1000 KVA	1 No	1705000
			Dry Type transformers		
378		ELEC-6.3.6	Supply ,Transportation of cast Resin (Dry Type) indoor type copper double wound 33KV/0.433 KV, Three Phase 50 HzTransformers desingned 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.,, completeMakes : As per list of recommended brands.		
	MAT-04049	a	1000 KVA	1 No	3047500
	MAT-04050	b	1250 KVA	1 No	3795000
	MAT-04051	c	1600 KVA	1 No	4588500
	MAT-04052	d	2000 KVA	1 No	5520000
	MAT-04053	e	2500 KVA	1 No	6210000

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
379		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 90ºC 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 : 90ºC		
			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.		
			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		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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		796000
	MAT-04055	b	315 KVA Copper Wound Cast Resin Transformer		915000
	MAT-04056	c	500 KVA Copper Wound Cast Resin Transformer		1247000
	MAT-04057	d	630 KVA Copper Wound Cast Resin Transformer		1366000
	MAT-04058	e	750 KVA Copper Wound Cast Resin Transformer		1604000
	MAT-04059	f	1000 KVA Copper Wound Cast Resin Transformer		2020000
		6.4	**MAINTENANCE AND REPAIRS OF TRANSFORMERS**		
380	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	5500
381	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, tightning 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	3300
382	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	4950

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
383	MAT-04063	ELEC-6.4.4	Testing of Transformer oil for dielectric breakdown strength.	1 No	660
384		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	3850
	MAT-04065	b	500 / 1000 KVA	1 No	4950
385		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	825
	MAT-04067	b	500 / 1000 KVA	1 No	1100
386		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	385
	MAT-04069	b	500 / 1000 KVA HT,	1 No	825
	MAT-04070	c	up to 315 KVA LT,	1 No	990
	MAT-04071	d	500 / 1000 KVA LT,	1 No	1650
387		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	660
	MAT-04073	b	For aluminium coils	1 Kg	440
387	MAT-04074	ELEC-6.4.9	Insulating HT / LT copper / aluminium coils for Transformers.	1 Kg	358
388		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	3850
	MAT-	b	630 / 1000 KVA	1 No	4950

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	04076				
389		ELEC-6.4.11	Replacing …….. for distribution Transformer by new one.		
	MAT-04077	a	H.T bushing	1 No	385
	MAT-04078	b	H.T bushing with metal parts	1 No	440
	MAT-04079	c	L.T bushing Upto 315 KVA	1 No	220
	MAT-04080	d	L.T bushing 500 / 1000 KVA	1 No	275
	MAT-04081	e	L.T bushing rod with metal parts up to 315 KVA	1 No	550
	MAT-04082	f	L.T bushing rod with metal parts 500/1000 KVA	1 No	2035
390		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	4840
	MAT-04084	b	500 / 1000KVA	1 No	6050
391		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	4950
	MAT-04086	b	630 / 1000 KVA	1 No	7700
392	MAT-04087	ELEC-6.4.14	Supply of new and tested transformer oil as per IS-335 - 1972 (per Ltr)	1 Ltr	132
393		ELEC-6.4.15	Filteration of transformer oil as per ISS specifications filters to dielectric strength above 40KV ……..		
	MAT-04088	a	at site. (per Ltr) excluding transportation	1 Ltr	11
	MAT-04089	b	at workshop (per Ltr)	1 Ltr	8
		6.5	**OVERHEAD LINES& LINE MATERIALS**		
394		ELEC-6.5.1	Supply and transportation of ……PSCC Poles		
	MAT-04090	a	8.0 Mtr ,Working load-140 Kgs	1No	2365

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-04091	b	8.0 Mtr ,Working load-200 Kgs	1No	2503
	MAT-04092	c	9.1 Mtr ,Working load-280 Kgs	1No	4565
395		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	9460
	MAT-04094	b	175 x 85 mm(Wt of the pole-215Kgs)	1No	14575
	MAT-04095	c	150 x 150 mm(Wt of the pole-333 Kgs)	1No	22550
396		ELEC-6.5.3	Supply and errection 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		
	MAT-04096	a	20mm,2.4 mtr long stay rod and anchor plate 380mmx380mmx6.4mm	1 set	2035
	MAT-04097	b	16mm,1.8 mtr long stay rod and anchor plate 380mmx380mmx6.4mm	1 set	1540
397		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	1320
	MAT-04099	b	65 x65 x6 MS angle (8.2 Kgs)	1 No	935
398		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	457
	MAT-04101	b	65 x65 x6 MS angle (wt 7 Kgs)	1 No	539
399		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	589
	MAT-04103	b	65 x65 x6 MS angle (wt 9.60 Kgs)	1 No	743

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
400	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		363
401	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	200
402		ELEC-6.5.9	Supply and fixing of …….. LT pocelain pininsulator as per IS 1447-1997 suitable for working voltage 1100 V including all accessories like Hot dip GI spindle and nuts etc.,		
	MAT-04106	a	100 x 65 mm	each	88
	MAT-04107	b	100 x 85 mm	each	99
403		ELEC-6.5.10	Supply and fixing of …….. LT pocelain 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	154
	MAT-04109	b	100 x 110 mm	each	187
404	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	2750
405	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	6050
406	MAT-04112	ELEC-6.5.13	Supply and fixing of 11 KV danger plates on the existing poles	each	110
407	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 ,Hozizontal 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	each	19800

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			galvenizing hardware,GI pipe,Nuts and bolts etc., complete.,		
408		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	56048
	MAT-04115	e	55 sqmm AAA	1KM	32439
	MAT-04116	f	34 sqmm AAA	1KM	19454
409		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 errected 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

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
410		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 errected 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 errected at both sides of gate.	1 No	As per DATA
411		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
412		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
	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 hallow portion shall be filled with stone chips duly plastered 20mm thick outsides including watering etc., complete.	1 No	11000
	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	6600
		6.6	**LIGHTENING PROTECTIVE**		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			SYSTEM		
			Advanced LPS		
	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 □t = **30µs**, 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 8/20µs wave shape) and having capturing rod dia of 25mm. Makes : As per list of recommended brands.	1 No	104500
	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 □t = **50µs,** 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 Impulses of 40kA (5 Shots of 8/20µs wave shape) and having capturing rod dia of 25mm. Makes : As per list of recommended brands.	1 No	110000

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
413	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 = **60µs,** 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 8/20µs wave shape) and having capturing rod dia of 25mm. Makes : As per list of recommended brands.	1 No	125400
414	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. Installation of Earth Electrodes 7. Interconnection between the Electrodes 8. Termination of down conductor to earth bus etc complete.	1 No	31900
415	MAT-04119	ELEC-6.6.3	Supply of 6 Digit Electronic/Mechanical counter Makes : As per list of recommended brands.	1 No	16500
416	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	6600
418	MAT-04122	ELEC-6.6.5	Supply 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	1 No	2420

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			tested as per IEC-62561-7 for resistance Toxic Elements, Leachable elements etc. 25 Kg Bag Makes : As per list of recommended brands.		
419	MAT-04123	ELEC-6.6.6	Supply of Bentonite Moisture Retaining Powder 30 Kg Bag	1 No	187
420	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	1650
			CONVENTIONAL LPS AS PER IS/IEC 62305		
			Air Terminal		
421	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	99
422	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	55
423	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	143
424	MAT-04128	ELEC-6.6.11	Supply, installation, testing and commissioning of Fang Fix Junior system - Inclusive of Al intrception rod of 1Mtr length(10mm dia) , Quick mounting of the interception rod in the base using plug technology	each	1815
425	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	each	145

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			necessary screws etc as required. Installed with 4 hexagonal bolts M8*25 with M8 hexagonal nuts		
426	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	435
			DOWN CONDUCTOR		
427	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	99
428	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	55
429	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	341
430	MAT-04134	ELEC-6.6.17	Supply, installation, testing and commissioning of Lightnig 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	18150
		6.7	**EARTHING**		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
431	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 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	10450
432	MAT-04136	ELEC-6.7.2	Providing earthling 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
433	MAT-04137	ELEC-6.7.3	Providing earthling as per IS 3043 with GI earth plate of size 600 x600 x 6 mm by embodying 3 to 4 mtr nelow 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	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
434	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 exacavating 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
435	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	8250
			EARTH CONDUCTORS		
436		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	108
	MAT-04141	b	8 SWG Copper wire(0.1155Kgs/1Mtr)	1 Mtr	78
	MAT-04142	c	10 SWG Copper wire(0.075Kgs/1Mtr)	1 Mtr	51
	MAT-04143	d	6 SWG GI wire(0.192 Kgs/Mtr)	1 Mtr	14
	MAT-04144	e	8 SWG GI wire(0.104Kgs/1Mtr)	1 Mtr	8

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (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	359
	MAT-04147	h	25mm x 3mm Copper Flat (0.663Kgs/1Mtr)	1 Mtr	449
	MAT-04148	i	32 mm x 6mm Copper Flat(1.9 Kgs/Mtr)	1 Mtr	1288
	MAT-04149	j	50 mm x 6mm Copper Flat (2.680Kgs/1Mtr)	1 Mtr	1817
	MAT-04150	k	25mm x 3mm GI Flat(0.656 Kgs/Mtr)	1 Mtr	46
	MAT-04151	l	25mm x 6mm GI Flat (1.18Kgs/1Mtr)	1 Mtr	83
	MAT-04152	m	32 mm x 6mm GI Flat(1.6 kgs/Mtr)	1 Mtr	116
	MAT-04153	n	50 mm x 6mm GI Flat(2.5 Kgs ?mtr)	1 Mtr	176
			SECTION 7		
		7.0	**LOCAL AREA NETWORK**		
437		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	35
	MAT-05553	b	6 STP cable	RM	48
438	MAT-04155	ELEC-7.1.2	Supply installation testing and commisioning of 2nos of Cat6 Tooless 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	each	825

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			pattern and UL-940V0 Rated Plastic &RoHS Compliant Makes : As per list of recommended brands.		
439	MAT-04156	ELEC-7.1.3	Supply installation testing and commisioning of1no of Cat6 Tooless 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	429
440		ELEC-7.1.4	Supply installation testing and commisioning 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,T568Bspecifications including making connections to information outlets Makes : As per list of recommended brands.		
	MAT-04157	a	1mtr/3 ft	each	204
	MAT-04158	b	2mtr/7 ft	each	242
	MAT-04159	c	3 mtr/10 ft	each	275
441	MAT-04160	ELEC-7.1.5	Supply installation testing and commisioningof Single Mode LC Pigtails LSZH 1mtr for fibre core connectivity Makes : As per list of recommended brands.	each	297
442	MAT-04161	ELEC-7.1.6	Supply installation testing and commisioningof Single Mode SC Pigtails LSZH 1mtr for fibre core connectivity. Makes : As per list of recommended brands.	each	407
443	MAT-04162	ELEC-7.1.7	Supply installation testing and commisioningof Single Mode LC Pigtails LSZH 2mtr for fibre core connectivity. Makes : As per list of recommended brands.	each	308

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
444	MAT-04163	ELEC-7.1.8	Supply installation testing and commisioningof Single Mode SC Pigtails LSZH 2mtr for fibre core connectivity. Makes : As per list of recommended brands.	each	429
445		ELEC-7.1.9	Supply installation testing and commisioning of **Indoor** multimode[62.5/125um] glass Fiber Optic Cable as per latest ammendments 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 necessorry tools for Terminations and testing required. Makes : As per list of recommended brands.		
	MAT-04164	a	4 fiber		70
	MAT-04165	b	6 fiber		76
	MAT-04166	c	12 fiber		105
446		ELEC-7.1.10	Supply installation testing and commisioning **Outdoor,** steel tape armoured multimode[62.5/125um] glass Fiber Optic Cable as per latest ammendments 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 necessorry tools for Terminations and testing required. Makes : As per list of recommended brands.		
	MAT-04167	a	4 fiber		72
	MAT-04168	b	6 fiber		79
	MAT-04169	c	12 fiber		108
446	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	1011

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
447		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	6050
	MAT-04172	b	12 Ports	1 No	7920
	MAT-04173	c	24 Ports	1 No	14988
	MAT-04174	d	36 Ports	1 No	16940
448		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 necessory 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	3190
	MAT-04176	b	12 Ports	1 No	3960
	MAT-04177	c	18 Ports	1 No	4950
	MAT-04178	d	24 Ports	1 No	6050
449		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	5148

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-04180	b	9 U(44 mm) wall mounted	1 No	6050
	MAT-04181	c	12 U(44 mm) wall mounted	1 No	7106
	MAT-04182	d	15 U(44 mm) wall mounted	1 No	8052
450		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	22550
	MAT-04184	b	27 U (44 mm)Floor Standing Rack	1 No	25300
	MAT-04185	c	37 U (44 mm)Floor Standing Rack	1 No	35200
	MAT-04186	d	42 U (44 mm)Floor Standing Rack 800WX1000D	1 No	45980
			MANAGEBLE NET WORK SWITCHES		
451	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	14300
452	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	27280
453	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	14850

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
454	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	27500
455	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	78650
456	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	57200
457	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	112200
458	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	112200
459	MAT-04195	ELEC-7.1.24	Supply , Installation, Testing and Comissioning 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	198000
460	MAT-04196	ELEC-7.1.25	Supply , Installation, Testing and Comissioning of **Layer2**, Catalyst 2960 Plus **24 port, GigE** LAN base Manageble Net work switch. Makes : As per list of recommended brands.	1 No	167750
461	MAT-04197	ELEC-7.1.26	Supply , Installation, Testing and Comissioning of **Layer2**, Catalyst 2960 Plus **48 port, GigE** LAN base Manageble Net work switch. Makes : As per list of recommended brands.	1 No	292600

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
462	MAT-04198	ELEC-7.1.27	Supply & Fixing of **WIFIAcess point** with mounting accessories etc.,complete . Makes : As per list of recommended brands.	1 No	24750
		7.2	**RACEWAYS AND JUNCTION BOXES**		
463		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	490
	MAT-04200	b	150mm x 38mm	1 Mtr	655
	MAT-04201	c	300mm x 38mm	1 Mtr	1111
	MAT-04202	d	100mm x 25mm	1 Mtr	462
	MAT-04203	e	150mm x 25mm	1 Mtr	605
	MAT-04204	f	300mm x 25mm	1 Mtr	1089
464		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	369
	MAT-04206	b	222mm x 52mm	1 No	468
	MAT-04207	c	372mm x 52mm	1 No	869
		7.3	**COMPUTERS,PRINTERS AND SCANNERS**		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-04208	ELEC-7.3.1	Supply, Transportation and installation of Desktop with fully loaded software as desired, with the following configuration. 1. Processor:Intel® Core™ i7-7700 Processor with Intel® HD Graphics 630 (3.6 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores) Intel H110 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, Instrusion 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	72270

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
465	MAT-04209	ELEC-7.3.2	Supply, Transportation and installation of Desktop with fully loaded software as desired, with the following configuration. 1. Processor:Intel® Core™ i5-7500 Processor with Intel® HD Graphics 630 (3.4 GHz base frequency with Intel® Turbo Boost Technology, 6 MB cache) Intel H110 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, Instrusion 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	65285
466	MAT-04210	ELEC-7.3.3	Supply, Transportation and installation of Printer Features: Print technology Laser Duty cycle (monthly, letter) Up to 5000 pages Recommended monthly page volume 250 to 2000 Duty cycle (monthly, A4) Up to 5000 pages print Print speed black (normal, letter) Up to 15 ppm Print speed black (normal, A4) Up to 14 ppm	1 No	11968

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			Duplex printing Manual (driver support provided) PROCESSOR Processor speed 234 MHz PAPER HANDLING Envelope feeder No Paper trays, maximum 1 (plus single-sheet priority input slot) Makes : As per list of recommended brands.		
467	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, Fulllscape -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	22550
468	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	38489
469	MAT-04213	ELEC-7.3.6	Supply of 5 Pair telephone copper wire. Makes : As per list of recommended brands.	100 Mtrs	2750
470	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	3663

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
471	MAT-04215	ELEC-7.3.8	Supply of 100 Pair raiser cable for telephone . Makes : As per list of recommended brands.	1 Mtr	385
472	MAT-04216	ELEC-7.3.9	Supply of 10 Pair telephone Copper wire. Makes : As per list of recommended brands.	1 Mtr	39
473	MAT-04217	ELEC-7.3.10	Supply of 20 Pair telephone Copper wire. Makes : As per list of recommended brands.	1 Mtr	77
474	MAT-04218	ELEC-7.3.11	Supply of 50 Pair telephone Copper wire. Makes : As per list of recommended brands.	1 Mtr	193
475	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	649
476	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	990
477	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	2063
478	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	7876
			EPABX SYSTEM		
		7.4	**SMALL SYSTEM**		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-05554	ELEC-7.4.1	Supply, Installation, testing and Commissioning of IP Based digtal 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	95150
	MAT-05555	ELEC-7.4.2	Supply, Installation, testing and Commissioning of IP Based digtal 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	104500

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-05556	ELEC-7.4.3	Supply, Installation, testing and Commissioning of IP Based digtal 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	116380
	MAT-05557	ELEC-7.4.4	Supply, Installation, testing and Commissioning of IP Based digtal 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	119900

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-05558	ELEC-7.4.5	Supply, Installation, testing and Commissioning of IP Based digtal 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	130900
	MAT-05559	ELEC-7.4.6	Supply and installation of Analog Extension Card (with Caller ID) 8 extensions.	1 No	15950
	MAT-05560	ELEC-7.4.7	Supply and installation of Analog Extension Card (with Caller ID) 16 extensions.	1 No	20900
	MAT-05561	ELEC-7.4.8	Supply and installation of Analog Trunk Card (with Caller ID) 4 trunks.	1 No	17710
	MAT-05562	ELEC-7.4.9	Supply and installation of Analog Trunk Card (with Caller ID) 8 trunks.	1 No	22000
	MAT-05563	ELEC-7.4.10	Supply and installation of Digital Extension Card for 8 digital extensions:	1 No	20570
	MAT-05564	ELEC-7.4.11	Supply and installation of Digital Extension Card for 16 digital extensions:	1 No	34650
	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	51975
		7.5	**LARGE SYSTEM**	1 No	

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-05566	ELEC-7.5.1	Supply, Installation, Testing and Commissioning of IP Based digtal 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	262460
	MAT-05567	ELEC-7.5.2	Supply, Installation, Testing and Commissioning of IP Based digtal 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	397100

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-05568	ELEC-7.5.3	Supply, Installation, Testing and Commissioning of IP Based digtal 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 > 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 Makes : As per list of recommended brands.	1 No	478500
	MAT-05569	ELEC-7.5.4	Supply, Installation, Testing and Commissioning of IP Based digtal 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 > 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	666600

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands.		
	MAT-05570	ELEC-7.5.5	Supply, Installation, Testing and Commissioning of IP Based digtal 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	772200
	MAT-05571	ELEC-7.5.6	Supply and Installation of Analog Extension Card (with Caller ID) 16 extensions.	1 No	21890
	MAT-05572	ELEC-7.5.7	Supply and Installation of Analog Trunk Card (with Caller ID) 8 trunks.	1 No	21890
	MAT-05573	ELEC-7.5.8	Supply and Installation of Digital Extension Card for 8 digital extensions:	1 No	21890
	MAT-05574	ELEC-7.5.9	Supply and Installation of Digital Extension Card for 16 digital extensions:	1 No	35970
	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	54010
	MAT-05576	ELEC-7.5.11	Supply and Installation of IP CPU card for redundancy purpose	1 No	39380
	MAT-05577	ELEC-7.5.12	Supply and Installation of PSU card for redundancy purpose	1 No	23980
	MAT-05578	ELEC-7.5.13	Supply and Installation of Digital Key Telephone with 2 line display, 10 programmable keys, handsfree	1 No	9240

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			dialing.		
	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	16170
	MAT-05580	ELEC-7.5.15	Supply and Installation of IP Gateway card for 8 channels	1 No	45650
	MAT-05581	ELEC-7.5.16	Supply and Installation of IP Gateway card for 16 channels	1 No	66000
	MAT-05582	ELEC-7.5.17	Supply and Installation of SIP extensions licenses pack (5 SIP extensions)	1 No	4675
	MAT-05583	ELEC-7.5.18	Supply and Installation of SIP extensions licenses pack (10 SIP extensions)	1 No	8195
	MAT-05584	ELEC-7.5.19	Supply and Installation of IP phone with POE.	1 No	18480
	MAT-05585	ELEC-7.5.20	Supply and Installation of 4 port GSM card	1 No	48180
	MAT-05586	ELEC-7.5.21	Supply and Installation of Expansion cabinet for 220 more extensions	1 No	91300
	MAT-05587	ELEC-7.5.22	Supply and Installation of 100 Pair MDF along with IPM	1 No	14740
			SECTION 8		
		8.1	**MISCELLANEOUS ITEMS**		
479	MAT-04223	ELEC-8.1.1	TW Seperators / Gutties	100 Nos	198
480	MAT-04224	ELEC-8.1.2	PVC Rawl Plugs	100 Nos	33
481	MAT-04225	ELEC-8.1.3	PVC Grips	100 Nos	33
482	MAT-04226	ELEC-8.1.4	U Nails	100 Nos	33
483	MAT-04227	ELEC-8.1.5	Alluminium Link Clips	100 Nos	33
484	MAT-04228	ELEC-8.1.6	50 mm G.I.Nut and Bolts.	1 Set	17
485	MAT-04229	ELEC-8.1.7	63 to 100 mm G.I.Nut and Bolts.	1 Set	28
486	MAT-04230	ELEC-8.1.8	50 mm 0 Gauge Nails	1 Doz	50

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
487	MAT-04231	ELEC-8.1.9	63 to 100 mm 0 Gauge Nails	1 Doz	79
488	MAT-04232	ELEC-8.1.10	Hard Coke	1 Kg	22
489	MAT-04233	ELEC-8.1.11	Salt	1 Kg	17
490	MAT-04234	ELEC-8.1.12	PVC Cleats 2 Way	100 Nos	358
491	MAT-04235	ELEC-8.1.13	PVC Cleats 4 Way	100 Nos	473
492	MAT-04236	ELEC-8.1.14	Binding Wire	1 Kg	66
493	MAT-04237	ELEC-8.1.15	PVC /cotton tape Role (8 Mtrs)	1 No	20
494	MAT-04238	ELEC-8.1.16	C.I.Knob	1 No	28
495	MAT-04239	ELEC-8.1.17	Stay tight set (Jum bracket 300 mm)	1 Pair	325
496	MAT-04240	ELEC-8.1.18	Stay clamp with bolts and Nuts)	1 Set	216
497	MAT-04241	ELEC-8.1.19	L.T.Guy insulator	1 No	83
498	MAT-04242	ELEC-8.1.20	12 / 15 MS plain rod fan hook	1 No	33
499	MAT-04243	ELEC-8.1.21	19 / 20 mm Steel tube fan down rod	1 Mtr	94
500	MAT-04244	ELEC-8.1.22	Consealed box PVC / MS with hook for fan	1 No	110
501	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	88
502	MAT-04246	ELEC-8.1.24	Coil Earthing	1 No	83
503	MAT-04247	ELEC-8.1.25	Cable root Indicators of size 152mm round / 102mm x 102mm / 152mm x 152mm	1 No	94
504	MAT-04248	ELEC-8.1.26	40 mm x 40 mm x 6 mm angle iron with I bolt.	1 Set	270
505	MAT-	ELEC-8.1.27	Mild Steel Items	1 Kg	66

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	04249				
506	MAT-04250	ELEC-8.1.28	Acrylic Cover of size 4" x 7" for night lamps.	1 No	22
507	MAT-04251	ELEC-8.1.29	TW / PVC Round Blocks	1 No	9
508	MAT-04252	ELEC-8.1.30	G.I.Funnel with Mesh 1/2" x 4"	1 No	88
509	MAT-04253	ELEC-8.1.31	Asbestos Sheet	1 Sq Mt	28
510	MAT-04254	ELEC-8.1.32	First Aid box 18" x 12" x 8"	1 No	1183
511	MAT-04255	ELEC-8.1.33	11 KV/ 22 KV Hand gloves	1 No	220
512	MAT-04256	ELEC-8.1.34	100mm CI pipe	1 mtr	As per civil SOR
		8.2	**LEGEND PLATES**		
513		ELEC-8.2.1	Danger Notice Plates of size ----------, shall comply with IS:2551-1982		
	MAT-04257	a	250x200mm,	1 No	248
	MAT-04258	b	200x150mm,	1 No	220
	MAT-04259	c	150x100mm,	1 No	110
514	MAT-04260	ELEC-8.2.2	Bus bar chamber 100mm x 40mm	1 No	55
515	MAT-04261	ELEC-8.2.3	Cable Alley 100mm x 40mm	1 No	55
516	MAT-04262	ELEC-8.2.4	Earth 40mm x 20mm	1 No	55
517	MAT-04263	ELEC-8.2.5	Auto / Manuual	1 No	55
518	MAT-04264	ELEC-8.2.6	Semi ovel type alluminium 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 / Emergnecy on / Slow.	1 No	28

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
519	MAT-04265	ELEC-8.2.7	Shock instrution chart in English / Hindi / Telugu duly framed with front glass	1 No	495
		8.3	**COPPER / ALLUMINIUM / G.I. ITEMS (PER KG)**		
520	MAT-04266	ELEC-8.3.1	Copper Plate / Strip / SWG wire No.8 / 10 / 14	1 kg	679
521	MAT-04267	ELEC-8.3.2	Copper winding wire	1 kg	782
522	MAT-04268	ELEC-8.3.3	Copper winding wire with PVC Insulated of fine quality	1 kg	805
523	MAT-04269	ELEC-8.3.4	Alluminum Bus bars / Strips / Accessories	1 kg	253
524	MAT-04270	ELEC-8.3.5	Alluminum winding wire	1 kg	330
525	MAT-04271	ELEC-8.3.6	G.I. Strip / Plate / Wire	1 kg	72
		8.4	**SMC TYPE SUPPORTS FOR THE BUSBARS**		
526		ELEC-8.4.1	Supply of type supports for the bus bars----------		
	MAT-04272	a	50 x 70 x 14 mm	1 No	33
	MAT-04273	b	60 x 70 x 14 mm	1 No	39
	MAT-04274	c	70 x 70 x 14 mm	1 No	72
	MAT-04275	d	300 x 50 x 10 mm	1 No	22
	MAT-04276	e	350 x 52 x 10 mm	1 No	176
	MAT-04277	f	420 x 60 x 12 mm	1 No	253
527	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	55
528	MAT-04279	ELEC-8.4.3	Heat shrinkable sleeves for the Bus bars up to 70 Sqmm	1 Mtr	17
529	MAT-04280	ELEC-8.4.4	Heat shrinkable sleeves for the Bus bars above 70 Sqmm	1 Mtr	28
530	MAT-	ELEC-8.4.5	8 mm LED series bulb (54 Nos.)	Set	330

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	04281				
531	MAT-04282	ELEC-8.4.6	8 mm LED series bulb with Navar Patta (250/300 Nos.) with necessary control gear	Set	2750
	MAT-05588	ELEC-8.4.7	LED RGB pixel series bulbs(50 Nos)	Set	605
	MAT-05589	ELEC-8.4.8	LED RGB pixel series bulbs with Navvar Patta(150 Nos) with necessary control gear	Set	4950
	MAT-05590	ELEC-8.4.9	Supply of 3W X54 LED RGB PAR cans with IP 67 protection	1 No	10450
533	MAT-04284	ELEC-8.4.10	Supply and fixing of 6mm thick MS Chekered plate.	1 Kg	77
534	MAT-04285	ELEC-8.4.11	Supply and fixing of 6mm thick Alluminium Chekered plate	1 Kg	275
535	MAT-04286	ELEC-8.4.12	Copper old winding Wire scrap for 1 Kg	1 Kg	165
536	MAT-04287	ELEC-8.4.13	Cement	1 Kg	9
537		ELEC-8.4.14	Cost of Sand	1 Cum	660
538		ELEC-8.4.15	Cost of Bricks	1000 Nos	4400
539	MAT-04288	ELEC-8.4.16	Hylam Sheet	1 Sq inch	1
540		ELEC-8.4.17	Supply of Nominal-Bore ---------- G.I.Pipe		
	MAT-04289	a	25mm Heavy grade	1 mtr	308
	MAT-04290	b	25mm Medium grade	1 mtr	270
	MAT-04291	c	40mm Heavy grade	1 mtr	462
	MAT-04292	d	40mm Medium grade	1 mtr	385
541	MAT-04293	ELEC-8.4.18	80mm Nominal Bore C.I.Earth Pipe of 3 Mtrs Length	1 no	3740
542	MAT-04294	ELEC-8.4.19	Earth work excacvation including all soils for trench, Pole Pit and Earth Pit	1 cum	275
543	MAT-04295	ELEC-8.4.20	Drilling of 16 Nos through holes of 12mm dia to G.I pipe	1 No	7
544	MAT-	ELEC-8.4.21	G.I Nuts, Bolts and Washers each set	1 set	13

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	04296				
545	MAT-04297	ELEC-8.4.22	18" dia 2" thick hume pipe ring	1 No	275
546	MAT-04298	ELEC-8.4.23	18" dia 3" hume pipe ring	1 No	330
547	MAT-04299	ELEC-8.4.24	2" thick CC cover for hume pipe ring with handle.	1 No	143
548		ELEC-8.4.25	Supply of Saddle / Clamps suitable for fixing ----------		
	MAT-04300	a	4 to 10 Sqmm 2 Core Cable	100 Nos	253
	MAT-04301	b	4 & 6 Sqmm 4 Core Cable	100 Nos	253
	MAT-04302	c	10 & 16 Sqmm 4 Core Cable	100 Nos	330
	MAT-04303	d	25 & 35 Sqmm 3.5 Core Cable.	100 Nos	385
	MAT-04304	e	50 Sqmm 3.5 Core Cable.	100 Nos	550
	MAT-04305	f	70 & 95 Sqmm 3.5 Core Cable	100 Nos	605
	MAT-04306	g	120 to 185 Sqmm 3.5 Core Cable	100 Nos	770
	MAT-04307	h	240 & 300 Sqmm 3.5 Core Cable	100 Nos	935
	MAT-04308	i	400 Sqmm 3.5 Core Cable	100 Nos	1210
549		ELEC-8.4.26	Supply and fixing of PVC synthetic elastomer electrically insulated mat conforming to IS: 15652-2006 with----------		
	MAT-04309	a	Class A insulation having 2mm thickness upto 3.3KV	1 sqmt	4180
	MAT-04310	b	Class B insulation having 2.5mm thickness upto 11KV	1 sqmt	4290
	MAT-04311	c	Class C insulation having 3mm thickness upto 33KV	1 sqmt	4400

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
550	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	297
551	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 of enamel paint.	1 no	1210
552		ELEC-8.4.29	Supply of GI Louver shutter for exhaust fan		
	MAT-04314	a	9 to 12"	1 no	165
	MAT-04315	b	15 to 18"	1 no	198
553	MAT-04316	ELEC-8.4.30	EICHER model 11:10 with 100 H. P direct injestion 4 stroke engine with one spare wheel 3800 mm cabin high deck with jangla (full body) (4 wheeler) for generator	1 No	682000
			LABOUR RATES		
554		ELEC-8.5.1	Skilled Electrician	1 No	
555		ELEC-8.5.2	Semi Skilled Electrician / Lineman	1 No	
556		ELEC-8.5.3	Helper (Electrical)	1 No	
557		ELEC-8.5.4	Skilled Mason	1 No	
558		ELEC-8.5.5	Semi Skilled Mason	1 No	
559		ELEC-8.5.6	Skilled Welder	1 No	
560		ELEC-8.5.7	Skilled Fitter	1 No	
561		ELEC-8.5.8	Semi Skilled Fitter / Welder	1 No	
562		ELEC-8.5.9	Skilled Carpenter	1 No	
563		ELEC-8.5.10	Semi Skilled Carpenter	1 No	
564		ELEC-8.5.11	Man Mazdoor	1 No	
565		ELEC-8.5.12	DG Set operator/Air Compressor Operator	1 No	
566		ELEC-8.5.13	2nd Class DG Set operator/Air Compressor Operator	1 No	

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
567		ELEC-8.5.14	Plumber (Licensed)/Pipe Fitter	1 No	
568		ELEC-8.5.15	Painter Class -2	1 No	
569		ELEC-8.5.16	Diploma Engineer / Surveyor	1 No	
570		ELEC-8.5.17	Graduate Engineer	1 No	
571		ELEC-8.5.18	ITI Certificate holder	1 No	
572		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 2021-22		
		9.1	**WIRELESS FIRE ALARAM SYSTEM**		
573	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	40250
574	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	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
575	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
576	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	6613
		9.2	**ADDRESSABLE - FIRE ALARM SYSTEM**		
577		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 record facility, event fetch from FACP facility and the single panel shall be suitable for min 2000 fire zones and		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			200 Panels/ Nodes in one network with all other accessories required to successfully run the system. The panel shall be completed as perUL 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	201250
	MAT-04341	b	2 loop	1 No	230000
	MAT-04342	c	4 loop	1 No	281750
	MAT-04343	d	6 loop	1 No	419750
	MAT-04344	e	8 loop	1 No	460000
	MAT-04345	f	10 loop	1 No	632500
577		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 FACPs 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 design). Makes : As per list of recommended brands as category II.		
	MAT-04346	a	1 loop	1 No	180550
	MAT-04347	b	2 loop	1 No	202400
	MAT-04348	c	4 loop	1 No	234600
	MAT-	d	6 loop	1 No	339250

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	04349				
	MAT-04350	e	8 loop	1 No	393300
	MAT-04351	f	10 loop	1 No	563500
578	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	120750
579	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	98325
580	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	5290
581	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	1 No	4255

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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.		
582	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 ressatable type without breakglass. Makes : As per list of recommended brands as category I.	1 No	5175
583	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 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 ressatable type without breakglass. Makes : As per list of recommended brands as category II.	1 No	4600
584	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	1 No	4370

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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.		
585	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 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.	1 No	3853
586	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	1 No	4715

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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.		
587	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	4140
588	MAT-04362	ELEC-9.2.13	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	1 No	4830

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			must have 4 non volatile memory to write the installation date & site codes Makes : As per list of recommended brands as category I.		
589	MAT-04363	ELEC-9.2.14	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 Makes : As per list of recommended brands as category II.	1 No	4140
590	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	4830

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
591	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	4255
592	MAT-04366	ELEC-9.2.17	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	4830
593	MAT-04367	ELEC-9.2.18	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 5 years of warranty.. Makes : As per list of recommended brands as category II.	1 No	4255
594	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 encloser. Isolator Base for Isolators. Makes : As per list of recommended	1 No	4370

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			brands as category I.		
595	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 encloser. Isolator Base for Isolators. Makes : As per list of recommended brands as category II.	1 No	3450
		9.3	**CONVENTIONAL - FIRE ALARM SYSTEM**		
596		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	15525
	MAT-04371	b	4 Zone	1 No	16675
	MAT-04372	c	6 Zone	1 No	17250
	MAT-04373	d	8 Zone	1 No	17825
	MAT-04374	e	10 Zone	1 No	22425
	MAT-04375	f	12 Zone	1 No	25875
	MAT-04376	g	14 Zone	1 No	29325
597	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	13800
598	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	863

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
599	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	690
600	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	173
601	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	1840
602	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	1610
603	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	1495
		9.4	**POWDER BASED FIRE EXTINGUISHERS**		
604			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	9315

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-04385	ELEC-9.4.2	Makes : As per list of recommended brands as category II.	1 No	5980
605			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 polyster 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	4600
	MAT-04387	ELEC-9.4.4	Makes : As per list of recommended brands as category II.	1 No	3910
606			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 polyster 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	6555
	MAT-04389	ELEC-9.4.6	Makes : As per list of recommended brands as category II.	1 No	4370
607			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 polyster 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-04390	ELEC-9.4.7	Makes : As per list of recommended brands as category I.	1 No	7475
	MAT-04391	ELEC-9.4.8	Makes : As per list of recommended brands as category II.	1 No	5980
			CLEAN AGENT FIRE EXTINGUISHERS		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
608			Supply and fixing of ISI mark (IS:15683) Clean Agent HCFC 123, 2 KGFire exitinguisher , 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 polyster 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	13340
	MAT-04393	ELEC-9.4.10	Makes : As per list of recommended brands as category II.	1 No	11040
609			Supply and fixing of ISI mark (IS:15683) Clean Agent HCFC 123, 4 Kg Fire exitinguisher , 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 polyster 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	22425
	MAT-04395	ELEC-9.4.12	Makes : As per list of recommended brands as category II.	1 No	20125
610			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 warrantyIncluding transportation, all taxes and all labour charges etc complete.		
	MAT-04396	ELEC-9.4.13	Makes : As per list of recommended brands as category I.	1 No	10235
	MAT-04397	ELEC-9.4.14	Makes : As per list of recommended brands as category II.	1 No	7705
611	MAT-04398	ELEC-9.4.15	Supply and fixing of Escape signage boards in Rigid Photo luminecent based glow in Dark rigid sheet with high intensity luminous properties with specificaiton. Makes : As per list of recommended brands.	1 No	1380

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
612	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 Eupropean Standard EN 403 1993-S known to reduce Carbon Monoxide, propend(acrloein), hydrogen chloride, hydrogen Cyanide and Solid and liquid toxic particles to manageable level for atleast 15 minutes shall with stand tempeartures 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	15525
613	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 inblack out side & Handle with mounting bracket.	1 Set	1380
614	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	1725
			AEROSOL GENERATION SYSTEM (An alternative to water based sprinkler system)		
	MAT-05591	ELEC-9.4.19	Supply,Installationand 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
	MAT-05592	ELEC-9.4.20	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**	1 No	40250

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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 m³. Makes : As per list of recommended brands.		
	MAT-05593	ELEC-9.4.21	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 . 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 to cover 10 m³. Makes : As per list of recommended brands.	1 No	51750
	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 m³. Makes : As per list of recommended brands.	1 No	74750

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	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 m³. Makes : As per list of recommended brands.	1 No	94300
	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 m³. Makes : As per list of recommended brands.	1 No	106950
	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 simultaniously	1 No	80500

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	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
	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
	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
	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
		9.5	**FIRE HYDRANT AND SPRINKLER SYSTEM**		
			ELECTRIC DRIVEN MAIN FIRE PUMPS(SPLIT CASE)		
615	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	368000
			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		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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.		
616	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	414000
			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.		
617	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.		644000
			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.**		
			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.		
618	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	477250

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (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 2850 lpm** at 7**0 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.		
	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	667000
			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' 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		
619	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	478400
			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		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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 alluminium 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.		
620	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	690000
			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 alluminium 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.		
621	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		833750
			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		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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 alluminium 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.		
622	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	782000
			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 alluminium 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.		
623	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	891250
			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 alluminium sheet cladding, residential silencer, instruments and protection as per specification, stop solenoid for auto stop in the event of fault with audio indications, painted		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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.		
			ELECTRIC DRIVEN MAIN FIRE PUMPS(END SUCTION)		
624	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	276000
			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.		
625	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	225400
			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		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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.		
626	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		165600
			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)		
627	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	573850
			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.		
628	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	457700

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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.		
629	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	400200
			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		
630	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	56350
			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.		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
631	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	82800
			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.		
632	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	126500
			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, 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		
632	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	64400

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (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 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.		
633	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	50025
			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.		
			d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : As per list of recommended brands.		
634	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	47725
			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.		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
635	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	43930
			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		
	MAT-05602	ELEC-9.5.24	Fabrication, supply,Transportation, Insallation 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	247250
			<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 swtich & CTs etc.		
			LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			Set of Copper Bus Bar 300A		
			OUTGOING :		
			(Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)		
			MAIN FIRE PUMP		
			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 acceessories and internal wiring required for automatic operation selector switch for local/remote, auto/manual/OFF operation.		
			JOCKEY PUMP		
			63 A, 50kA TPN MCCB, Ics=100% Icu, with suitable protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for ocal/remote, auto/manual/OFF operation.		
			DIESEL ENGINE CONTROL		
			Control for diesel engine comprising - Automatic/Manual selctor 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 suitbale 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.		
	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	290950
			INCOMING :		
			400A, 50kA 4 Pole MCCB, Ics=100% Icu rating		
			Digital Voltmeter 0-500V with selector switch		
			Ammeter (0-400 A) with selector swtich & CTs etc.		
			LED type RYB phase indicating lamps, ON, OFF, trip		
			indicating lamps		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			Set of Copper Bus Bar 500A		
			OUTGOING :		
			(Note : All outgoing feeders for pumps should have		
			digital Ammeter with selector switches, and LED type		
			ON, OFF, trip indicating lamps)		
			MAIN FIRE PUMP		
			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 acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.		
			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 acceessories 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 selctor 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 suitbale 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		
	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	322000
			INCOMING :		
			630A, 50kA 4 Pole MCCB, Ics=100% Icu rating		
			Digital Voltmeter 0-500V with selector switch		
			Ammeter (0-630 A) with selector swtich & CTs etc.		
			LED type RYB phase indicating lamps, ON, OFF, trip		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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>		
			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 acceessories 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 acceessories 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 selctor 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 suitbale 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.		
	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	377200
			<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 swtich & CTs etc.		
			LED type RYB phase indicating lamps, ON, OFF, trip		
			indicating lamps		
			Set of Copper Bus Bar 500Amps		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			OUT GOING :		
			(Note : All outgoing feeders for pumps should have		
			digital Ammeter with selector switches, and LED type		
			ON, OFF, trip indicating lamps)		
			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 acceessories 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 acceessories 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 selctor 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 suitbale 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		
	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	450800
			INCOMING :		
			630A, 50kA 4 Pole MCCB, Ics=100% Icu Rating		
			Digital Voltmeter 0-500V with selector switch		
			Ammeter (0-630 A) with selector swtich & CTs etc.		
			LED type RYB phase indicating lamps, ON, OFF, trip		
			indicating lamps		
			Set of Copper Bus Bar 800Amps		
			OUT GOING :		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			(Note : All outgoing feeders for pumps should have		
			digital Ammeter with selector switches, and LED type		
			ON, OFF, trip indicating lamps)		
			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 acceessories 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 acceessories 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 selctor 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 suitbale 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.		
	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	575000
			INCOMING :		
			800A, 50kA 4 Pole MCCB, Ics=100% Icu Rating		
			Digital Voltmeter 0-500V with selector switch		
			Ammeter (0-800 A) with selector swtich & CTs etc.		
			LED type RYB phase indicating lamps, ON, OFF, trip		
			indicating lamps		
			Set of Copper Bus Bar 1000Amps		
			OUT GOING :		
			(Note : All outgoing feeders for pumps should have		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			digital Ammeter with selector switches, and LED type		
			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 acceessories 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 acceessories 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 selctor 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 suitbale 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		
636		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	4080
	MAT-04426	b	200 mm dia	1 Mtr	3540
	MAT-04427	c	150 mm dia	1 Mtr	2700
	MAT-04428	d	100 mm dia	1 Mtr	1680
	MAT-04429	e	80 mm dia	1 Mtr	1116
	MAT-04430	f	65 mm dia	1 Mtr	840
	MAT-04431	g	50 mm dia	1 Mtr	672
	MAT-04432	h	40 mm dia	1 Mtr	570

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-04433	i	32 mm dia	1 Mtr	450
	MAT-04434	j	25 mm dia	1 Mtr	336
			B- CLASS MS PIPES		
	MAT-04435	a	250 mm dia	1 Mtr	3600
	MAT-04436	b	200 mm dia	1 Mtr	3120
	MAT-04437	c	150 mm dia	1 Mtr	2160
	MAT-04438	d	100 mm dia	1 Mtr	1440
	MAT-04439	e	80 mm dia	1 Mtr	1020
	MAT-04440	f	65 mm dia	1 Mtr	756
	MAT-04441	g	50 mm dia	1 Mtr	588
	MAT-04442	h	40 mm dia	1 Mtr	444
	MAT-04443	i	32 mm dia	1 Mtr	360
	MAT-04444	j	25 mm dia	1 Mtr	300
637		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	8395
	MAT-05608	b	Single Headed Stainless Steel	1 No	7475
638		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	13225

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-04447	b	(b) 200 mm . dia	1 No	5635
	MAT-04448	c	(c) 150 mm dia	1 No	4715
	MAT-04449	d	(d) 100 mm dia	1 No	3623
	MAT-04450	e	(e) 80 mm dia	1 No	3335
639		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	20700
	MAT-04452	b	(b) 200 mm dia	1 No	10580
	MAT-04453	c	(c) 150 mm dia	1 No	7590
	MAT-04454	d	(d) 100 mm dia	1 No	4025
	MAT-04455	e	(e) 80 mm dia	1 No	3910
	MAT-04456	f	(f) 50 mm dia	1 No	2070
640		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.		
	MAT-04457	a	250 mm . dia	1 No	17595
	MAT-04458	b	200 mm . dia	1 No	12650
	MAT-04459	c	150 mm dia	1 No	8050
	MAT-04460	d	100 mm dia	1 No	5405
	MAT-04461	e	80 mm dia	1 No	4025
	MAT-04462	f	(50 mm dia	1 No	3220

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
641		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	1840
	MAT-04464	b	40 mm dia	1 No	1495
	MAT-04465	c	32 mm dia	1 No	1351
642		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	6475
	MAT-05609	b	SS couplings	1 No	4830
643		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	5520
	MAT-05610	b	SS couplings	1 No	4600
644		ELEC-9.5.38	Supply, installation, testing and commissioning of stainless steel Y – Stainer fabricated outof 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	21160
	MAT-04469	b	200 mm . dia	1 No	19550
	MAT-04470	c	150 mm dia	1 No	9200
	MAT-04471	d	100 mm dia	1 No	4945
	MAT-04472	e	80 mm dia	1 No	4485

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
645	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	7705
			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.		
646	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	3335
647		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	2530
	MAT-05611	b	SS couplings	1 No	1840
648	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	9200

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
649	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	6900
650	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	16445
651	MAT-04479	ELEC-9.5.45	Providing fixing, testing and commissioning of 15mm size quartzoid bulb type sprinklers of rating 68º C. pendent / side wall with required accessories. Makes : As per list of recommended brands.	1 No	506
652	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	1208
653	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	2588
654	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	5520
655	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	7705
656	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/cm2. Makes : As per list of recommended brands.	1 No	690

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
657	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	1208
658	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	667
659	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	1265
		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	1035
	MAT-04489	b	1000 mm to 1200 mm	1 No	1208
	MAT-04490	c	1500 mm	1 No	1438
660		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 follwing sizes as required : Makes : As per list of recommended brands.		
	MAT-05612	a	80mm dia	1 No	41400
	MAT-05613	b	100mm dia	1 No	43700
	MAT-04491	c	150mm dia	1 No	46000
661		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.		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-04492	a	a) 200mm nominal dia	1 Ea	25645
	MAT-04493	b	b) 150mm nominal dia	1 Ea	13800
	MAT-04494	c	c) 100mm nominal dia	1 Ea	7705
	MAT-04495	d	d) 80mm nominal dia	1 Ea	5290
		ELEC-9.5.57	Supply and laying of 300mm dia NP2 RCC Hume pipe with Collars for Road crossings -As per Civil SoR		
662		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 specificatios. Makes : As per list of recommended brands.		
	MAT-04496	a	a) 200mm nominal dia	1 Mtr	460
	MAT-04497	b	b) 150mm nominal dia	1 Mtr	345
	MAT-04498	c	c) 100mm nominal dia	1 Mtr	311
	MAT-04499	d	d) 80mm nominal dia	1 Mtr	265
663	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	72
	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 lovures with weld mesh inside and mounted on	1 No	23000

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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 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.		
			1) Supply & Fixing of DOL Starter suitable for 7.5 HP Pump Motor - 1 No 2) Supply and Fixing of (0-500) V range Volt meter on existing panel, making connection by PVC insulated copper conductorwith PVC sleeves/channel etc.,as required.-1 No 3) Supply and Fixing of CT operated direct reading type Ammeter, below 500A, on existing panel , making connection by PVCinsulated copper conductor with PVC sleeves/channel etc. as required - 1 No 4) Supply and Fixing of selector switch for Voltmeter & Ammeter (4 position) including making connection etc. as required.- 2 No 5) Supply and Fixing of 240/220 V, LED (22.5 mm dia) Pilot indication lamps Red, Yellow & Bue Colour with integral circuit,terminal block, including connection etc. as required - 3 No 6) Supply and Fixing of Single Phase Preventor of suitable range - 1No. 7) Supply and fixing of ISI Mark suitable capacitor 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 9) Supply and Fixing of Non-Luminious type, ON/OFF/TRIP push button actuators and integral contact block of dia. 22.5 mm including making connection etc. as		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			required. 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. - 3 pole, 35-40A AC3 Rating, Contactor - 1 No 11) Supply and Fixing of 24 V DC ,Aux Contactor with 2 NO+2NC Contacts with suitable NO+NC ADD on Block 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 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		
			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 masonary 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		
	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.		7140.00
	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.		505.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			Makes : As per list of recommended brands.		
	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/cm2 complete as required. Makes : As per list of recommended brands.		987.00
		ELEC-9.5.64	Supply,Installation,testing and commissioning of stainless steel puddle flange fabricated out of1.6mm 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	6650.00
	MAT-08789	b	100mm dia	1 No	5800.00
	MAT-08790	c	80 mm dia	1 No	4500.00
	MAT-08791	d	65 mm dia	1 No	3000.00
	MAT-08792	e	50 mm dia	1 No	2800.00
	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		11000
	MAT-08794	ELEC-9.5.66	Supplying, installation, testing & commissioning of deluge valve (to be used for water curtains) UL listedwith 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		92907

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-08795	ELEC-9.5.67	Providing, installation, testing & commissioning of electric release trim assembly for deluge wall with two way solelnoid valve, weather proof operation on 24 volts DC supply complete as required. Makes : As per list of recommended brands.		5640.00
	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.		155.00
			SECTION 10		
		10.1	**GENERATORS SPECIFICATION**		
664		ELEC-10.1.1	Supply Installation Testing And commissioning of DG Set complete with 1500 RPM Diesel Engine of suitableBHP & 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 load, IP23, with standard Alternator Protection(Over voltage, over speed & under voltage). **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 TP 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 continuious 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. **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 chequrred plate 5.0 mmthick, All doors/ opening are sealed with neoprene/ EPDN gaskets. 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.		
			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 :		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			Radiator Cooled and Turbocharged		
	MAT-04501	**a**	15 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	340000
	MAT-04502	**b**	30 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	440000
	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	DELETED	1 No	
	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	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
665		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
666	MAT-04525	ELEC-10.1.3	Supply and fixing of Thermal Insulation With Asbestos Rope for Exhaust pipe	Mtr	251
667	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**		
668		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	9350

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-04528	b	1400 VA, 24 V DC	1No	13200
	MAT-04529	c	2000 VA, 36 V DC	1No	18700
669		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	26400
	MAT-04531	b	3.0 KVA , 72/96 VDC	1 No	36300
	MAT-04532	c	3.0 KVA , 72/96 VDC with Isolation Transformer	1 No	41580
	MAT-04533	d	6.0 KVA , 192/240 VDC with Isolation Transformer	1 No	71500
	MAT-04534	e	7.0 KVA , 192/240 VDC with Isolation Transformer	1 No	86350
	MAT-04535	f	10.0 KVA , 192-240 VDC with Isolation Transformer	1 No	103950
670		ELEC-11.1.3	Supply installation Testing and commissioning of ..... KVA on line UPS system as per IEC 62040-I(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	181500
	MAT-04537	b	15.0 KVA 312/360 V DC	1 No	198000
	MAT-04538	c	20.0 KVA 312/360 V DC	1 No	231000
	MAT-04539	d	30.0 KVA 312/360 V DC	1 No	302500
	MAT-04540	e	40.0 KVA 312/360 V DC	1 No	385000

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
671		ELEC-11.1.4	Supply installation Testing and commissioning of ..... KVA on line UPS system as per IEC 62040-I(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-04541	a	60 KVA	1 No	715000
	MAT-04542	b	80.0 KVA	1 No	935000
	MAT-04543	c	100.0 KVA	1 No	1083500
	MAT-04544	d	120.0 KVA	1 No	1229800
	MAT-04545	e	160.0 KVA	1 No	1372800
	MAT-04546	f	200.0 KVA	1 No	1401400
672	MAT-04547	ELEC-11.1.5	Supply and providing of UPS cum battery rack up to 4 batteries	1 No	1650
673	MAT-04548	ELEC-11.1.6	Supply and providing of battery rack for 5 to 10 batteries (42 AH)	1 No	3300
674	MAT-04549	ELEC-11.1.7	Supply and providing of battery rack upto 11 to 20 batteries (42 AH)	1 No	5500
675	MAT-04550	ELEC-11.1.8	Supply and providing of battery rack upto 20 to 30 batteries (65 & 100 AH)	1 No	9900
676	MAT-04551	ELEC-11.1.9	Supply and fixing of 12V 26 AH SMF battery with 3 years Warrenty, including wire leads ,connections etc complete.,. Makes : As per list of recommended brands.	1 No	3520
677	MAT-04552	ELEC-11.1.10	Supply and fixing of 12V 42 AH SMF battery with 3 years Warrentyincluding wire leads ,connections etc complete.. Makes : As per list of recommended brands.	1 No	6270
678	MAT-04553	ELEC-11.1.11	Supply and fixing of 12V 65 AH SMF battery with 3 years warrenty including wire leads ,connections etc complete., Makes : As per list of recommended brands.	1 No	7920

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
679	MAT-04554	ELEC-11.1.12	Supply and fixing of 12V 100 AH SMF battery with 3 years warrenty including wire leads,connections etc complete., Makes : As per list of recommended brands.	1 No	11484
680	MAT-04555	ELEC-11.1.13	Supply and fixing of 12V 120/130 AH SMF battery with 3 years warrenty including wire leads,connections etc complete., . Makes : As per list of recommended brands.	1 No	12276
681	MAT-04556	ELEC-11.1.14	Supply and fixing of 12V, 150 AH SMF battery with 3 years warrentyincluding wire leads,connections etc complete., Makes : As per list of recommended brands.	1 No	17160
682	MAT-04557	ELEC-11.1.15	Supply and fixing of 12V, 200 AH SMF battery with 3 years warrenty including wire leads ,connections etc complete., Makes : As per list of recommended brands.	1 No	23760
683		ELEC-11.1.16	Supply and fixing of 12V, 120 AH MF battery including wire leads	1 No	deleted
684	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
			SECTION - 12		
		12.1	**TEMPORARY ILLUMINATION**		
685	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 including cost and conveyance of all materials and labour charges etc., complete for one day.	1 No	39
686	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	321

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
687	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	377
688	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	413
689	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 errected 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	399
690	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	460
691	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 for one day.	1000 Nos	1441
692	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 dismantled including required scaffolding and T&P including cost and conveyance of all materials and all labour charges etc., complete for	1000 Nos	990

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			one day.		
693	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	1227
694	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	787
695	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	5500
696	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	176
697	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	162
698	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	1364

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
699	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	162
700	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	68
701	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	550
702	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	1210
703	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 switchgearswith continuous earthing maintaining the same during the function and including dismantling for one day.	1 No	396
704	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 perdirection of authority, duly connecting and testing for one day.	1 No	825
705	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	110

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
706	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	5610
707	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	4830
708	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	5520
709	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	6325
710	HIR-00266	ELEC-12.1.26	Hire charges for providing 6.5Ton/7.5Ton capacity tower typeair 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	7475

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
711	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	8250
712	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	385
713	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	2673
714	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	220
715	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	2750
716	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	1100
717	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	1 No	330

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			USB, memory (in MB): NA network card 10/100:YES, Duplexing: YES etc for one day.		
718	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	1815
719	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	1100
720	HIR-00276	ELEC-12.1.36	Hire charges for supply and fixing distributation 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	1481
721	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	1511
722	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	1450
723	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	336
724	HIR-00280	ELEC-12.1.40	Hire charges for supply and fixing distributation main board consisiting of 400A/250A 4pole change over switch with bus bar arrangement 12 Nos	1 No	1432

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			63A fuse units as out going including conveyance of all materials and all labour charges etc., complete for one day.		
725	HIR-00281	ELEC-12.1.41	Hire charges for supply and fixing distributation main board consisiting 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	1383
726	HIR-00282	ELEC-12.1.42	Hire charges for Supply and maintaining towards suppy 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	1276
727	HIR-00283	ELEC-12.1.43	Hire charges for Supply and maintaining towards suppy 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	1321
728	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	510
729	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
730	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	28
731	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 31/2 core cable / 4 of single core 50Sqmm to 95Sqmm cable with necessary	1 Mtr	30

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			terminations etc. complete for one day.		
732	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	29
733	HIR-00289	ELEC-12.1.49	Hire charges for supply and installing and maintaining towards supply and run of 95 Sq.mm x 31/2 core cable / 4 of single core 95Sqmm cable with necessary terminations etc. complete for one day.	1 Mtr	31
734	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	32
735	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	35
736	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	1728
737	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	2292
738	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	1 No	3447

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			one day.		
739	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	7854
740	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	979
741	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	2706
		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.		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			12.2 Hiring of Generators		
742	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	7849
743	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	8970
744	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	12564
		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)**		
745	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 • Rated capacity :- 8 Passenger/544Kg • Floors :- G+1 floor (2Stops/2 Landings) • Travel :- 3 to 4.2 mtrs • Location of Lift Machine:- MRL	1Job	1059400.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			• Rated speed :- 1.0mps 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 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 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		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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 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.		
746	MAT-08535	ELEC-13.1.2	Supply,Installation,Testing and Commissioning of Electric Traction Passenger Lift of Makes : As per list of recommended brands. with • 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 :- 1.0mps 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	1Job	1267300.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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 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		
			• Minor civil work for alteration if any and erection of door frames and accessories, erection buffers, erection		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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.		
747	MAT-08536	ELEC-13.1.3	Supply,Installation,Testing and Commissioning of Electric Traction Passenger Lift of Makes : As per list of recommended brands. with • 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 :- 1.0mps 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	1353000.00
			• 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		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			& 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 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		
748	MAT-08537	ELEC-13.1.4	Supply,Installation,Testing and Commissioning of Electric Traction Passenger cum Stretcher/Hospital Lift of Makes : As per list of recommended brands. with • Rated capacity :- 15 Passenger/1020Kg • Floors :- G+1 floor (2Stops/2	1Job	1586000.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			Landings) • Travel :- 3 to 4.2 mtrs • Location of Lift Machine:- MRL • Rated speed :- 1.0mps 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, 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 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		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			• 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 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		
749	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 :- 1.0mps VS • Doors type :- COPO/TOPO Doors	1Job	1891300.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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 .....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 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		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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 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.		
750	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 :- 1.0mps 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	1Job	1940200.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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		
			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 guide rails for car & counter weight with brackets fasteners, counter weight frame with		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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.		
751	MAT-08540	ELEC-13.1.7	Supply,Installation,Testing and Commissioning of Electric Traction Passenger cum Stretcher/Hospital Lift of Makes : As per list of recommended brands. with • 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 :- 1.0mps 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	1Job	2069800.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			& 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 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 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 and		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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.		
752	MAT-08541	ELEC-13.1.8	Supply,Installation,Testing and Commissioning of Electric Traction Goods Lift of Makes : As per list of recommended brands. with • 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. • 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	1Job	2512600.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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 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.		
753	MAT-08542	ELEC-13.1.9	Supply,Installation,Testing and Commissioning of Electric Traction Goods Lift of Makes : As per list of recommended brands. with	1Job	2782500.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			• 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 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		
			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		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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		
			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.		
		NOTE:	1. The above rates are applicable only for the makes: KONE/OTIS/SCHINDLER/MITSUBISHI/JOHNSON.		
			2. If the local reputed brands prefered 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 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,		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
754	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	130650.00
755	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	134600.00
756	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	139300.00
757	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 cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safefunctioning of lift installation complete	1Floor	143500.00
758	MAT-08547	5	For Lift having 1100mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing	1Floor	147800.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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		
759	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	152900.00
760	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	157600.00
761	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 etc. necessary for the normal safe functioning of lift installation complete	1Floor	162400.00
762	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-	1Floor	170600.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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		
763	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	178900.00
764	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	188000.00
765	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	204800.00
766	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, &	1Floor	211900.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete		
		A1	For Lift travelling above six floors & up to fifteen floors or at a speed of 1.5 mps, add as below,		
767	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	136500.00
768	MAT-08557	2	For Lift having 800mm wide x 2000mm high clear entrance in1.5mm 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	140700.00
769	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	145600.00
770	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, &	1Floor	149900.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete		
771	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	154400.00
772	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	159800.00
773	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	164600.00
774	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 ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation	1Floor	169600.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			complete		
775	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	178100.00
776	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	186900.00
777	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	196300.00
778	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	213900.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
779	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 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	221400.00
		A2	For Lift travelling above fifteen floors & up to twenty floors or at a speed of 1.75 mps, add as below,		
780	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	144800.00
781	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, landingdoors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	149900.00
782	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	154300.00
783	MAT-08572	4	For Lift having 1100mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing	1Floor	159000.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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.		
784	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	164500.00
785	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	169500.00
786	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	174600.00
787	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	1Floor	183300.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			accessories etc. complete for the safe functioning of lift installation.		
788	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 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	192500.00
789	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	163700.00
790	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	220400.00
791	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	227800.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
		B	If there is additional automatic car door, add as below.		
792	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	108200.00
793	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	111500.00
794	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	115400.00
795	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	119200.00
796	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	122800.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
797	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	127200.00
798	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	131300.00
799	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	135200.00
800	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	141900.00
801	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	149800.00
802	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	1Set	157200.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			operator mechanism with drive,required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.		
803	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	171800.00
804	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	178400.00
		C	For Full Collective control system, add as below.		
805	MAT-08594	1	For Lift travelling above First floor & up to Sixth floor	1No	26900.00
806	MAT-08595	2	For Lift travelling above Sixth floor & up to Fifteenth floor	1No	61600.00
807	MAT-08596	3	For Lift travelling above Fifteenth floor & up to Twentieth floor	1No	80800.00
808	MAT-08597	D	For additional 2MP Camera along with necessary accessories at Home Landing, add as given.	1No	13300.00
		E	For Group control system of number of lifts, add as below.		
809	MAT-08598	1	For Duplex Lift control system	1Job	34200.00
810	MAT-08599	2	For Triplex Lift control system	1Job	51100.00
811	MAT-08600	3	For Quadruplex Lift control system	1Job	68900.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
812	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	2700.00
		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		
814	MAT-08602	1	for Lift car door, having clear entrance of 700/800/900mm wide	1 per Landing	44300.00
815	MAT-08603	2	for Lift car door, having clear entrance 1000/1100/1200/1300mm wide	1 per Landing	60700.00
816	MAT-08604	3	for Lift car door, having clear entrance 1400/1500/1700mm wide	1 per Landing	106400.00
817	MAT-08605	4	for Lift car door, having clear entrance 1800/2100/2200mm wide	1 per Landing	180800.00
		b	For Lift Landings per 100mm Step rise		
818	MAT-08606	1	for Lift Landing door having clear entrance of 700/800/900mm wide	1 per Landing	11100.00
819	MAT-08607	2	for Lift Landing door, having clear entrance of 1000/1100/1200/1300mm wide	1 per Landing	15100.00
820	MAT-08608	3	for Lift Landing door, having clear entrance of 1400/1500/1700mm wide	1 per Landing	23900.00
821	MAT-08609	4	for Lift Landing door, having clear entrance of 1800/2100/2200mm wide	1 per Landing	35800.00
		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.		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
		2	Warrantee: - Job covers two years onsite warrantee for all the Lift parts with FCAMC as per the maintenance schedule.		
			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 2nos 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	While framing estimates of lifts for handicapped persons/ Hospital/Goods Lifts, the relevant Indian standard shall be referred for dimensions.		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
		9	The sizes in mm for Lift car, entrance, available lift Shaft etc. with travel shall be mentioned in the Detailed Estimate		
		10	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		
		11	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		
822	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	6000.00
823	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	15000.00
824	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	3000.00
825	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	4500.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
826	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	2500.00
827	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	14500.00
828	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	18500.00
829	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	10400.00
830	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	11800.00
831	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	10200.00
832	MAT-08620	ELEC-13.2.11	Providing dismantling the existing OSG rubber roller complete,providing and fixing new nylon roller of superior quality.	1Job	400.00
			LIFT CAR		
833	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	2900.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			guide shoe Liner complete with re-erection,alignment & adjustment complete with lubrication		
834	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	4600.00
835	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	500.00
836	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	152100.00
837	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	183200.00
838	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,	1Job	213500.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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 14 to 16 passenger lift car		
839	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	247500.00
840	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	315900.00
841	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	49700.00

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1		2	3	4	5
842	MAT-08630	ELEC-13.2.21	Supplying & erecting laminated type with minimum 6mm thick mirror confirming 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	500.00
			LIFT SHAFT		
843	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	700.00
844	MAT-08632	ELEC-13.2.23	Supplying & erecting over travel final/Terminal limit switchcomplete with nylon roller for up & down direction alongwithcams etc as required.	1No	2000.00
845	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	1000.00
846	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 withBakelite 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	1000.00
847	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	200.00
848	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	200.00
849	MAT-08637	ELEC-13.2.28	Supplying & erecting main suspension wire rope of 8mm dia.having 8/19 construction as per	1Mt	150.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			IS complete with termination in provided eye bolts including dismantling of existing accessories as applicable		
850	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	100.00
851	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 clips 8/19 construction as per IS Complete with termination in provided eye bolts including dismantling of existing accessories as applicable	1No	1500.00
852	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	1200.00
			CAR & LANDING DOORS:		
853	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	900.00
854	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	9000.00
855	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	1Job	10700.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			of existing door as applicable		
856	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 applicable	1Job	14000.00
857	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 than2000mm, including dismantling of existing door as applicable.	1Job	62700.00
858	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 than2000mm, including dismantling of existing door as applicable	1Job	67200.00
859	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	1Job	76200.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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 than2000mm, including dismantling of existing door as applicable		
860	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, 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	1Job	86800.00
861	MAT-08649	ELEC-13.2.40	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 1200mm in width and clear height not less than 2000mm, including dismantling of existing door as applicable	1Job	99000.00
862	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	1050.00
863	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	1400.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
864	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	4000.00
865	MAT-08653	ELEC-13.2.44	Providing & fixing landing/Car gate movable contact electricalswitch of superior quality complies with the relevant IS suitable for all type of landing/car doors	1No	150.00
866	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 1digits) complete with necessary connections, including dismantling of existing door as applicable	1No	4400.00
867	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	5300.00
868	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	16300.00
869	MAT-08657	ELEC-13.2.48	Providing & fixing push button suitable with micro switch withpush button on existing COP/LOP with necessary connections and testing complete including dismantling of existing button accessories as applicable	1No	950.00
870	MAT-08658	ELEC-13.2.49	Providing & fixing 40mm high fixing digital indicator module ofgives indication of required shade with connections and testing complete	1No	1200.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			including dismantling of existing accessories as applicable		
871	MAT-08659	ELEC-13.2.50	Providing & fixing car door operator motor with assembly ofsuitable capacity & speed with necessary pulleys & required accessories complete including dismantling of existing accessories as applicable	1No	24000.00
872	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	1250.00
873	MAT-08661	ELEC-13.2.52	Providing & fixing car/landing door guide shoe liner/gibescomplete with necessary material like nylon coating complete including dismantling of existing accessories as applicable	1 door	600.00
			CONTROLLER		
874	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 asapplicable.	1Job	104800.00
875	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 asapplicable	1Job	124700.00
876	MAT-08664	ELEC-13.2.55	Supplying erecting, testing & commissioning of VVVF drive having provision for closed loop logic with	1Job	60900.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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		
877	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	71350.00
878	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	91200.00
879	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	115300.00
880	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	23900.00
881	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	22200.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
882	MAT-08670	ELEC-13.2.61	Providing & fixing inspection/maintenance box with cover ofsuitable 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	1500.00
883	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	1100.00
884	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	78600.00
885	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	89100.00
886	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	101800.00
887	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	116000.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
888	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	133300.00
889	MAT-08677	ELEC-13.2.68	Providing complete lift shaft wiring in copper wire/cable frommain 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 minimum1.0 sq. mm size from controller to safety devices & 0.75Sqmm size for indication system complete in PVC/GI trunking with cover for lift with manually/power operated doors travelling up to G+1floors /2stops& 2landings for floor height up to 4.2mtrs includingdismantling of existing accessories as applicable	1Job	20000.00
890	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 dismantling of existing accessories as applicable	1Mt	150.00
891	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	400.00
892	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	63800.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
		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 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/-		

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			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 calculatedon 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		
893	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 complete.	1Job	30000.00
894	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	1Job	35000.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
			keeper in charge complete.		
895	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	40000.00
896	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	42000.00
897	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 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	48000.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
898	MAT-08686	ELEC-13.3.6	Dismantling the existing 27 to 36 Passenger/Stretcher/Goods liftof 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	52000.00
899	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	54000.00
			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	2500.00
	MAT-08689	2	For 8 to 12 passenger lift of all types	1Floor	2700.00
	MAT-08690	3	For 13 to 17 passenger/stretcher/goods lift of all types	1Floor	2900.00
	MAT-08691	4	For 18 to 23 passenger/stretcher/goods lift of all types	1Floor	3300.00
	MAT-08692	5	For 23 to 26 passenger/stretcher/goods lift of all types	1Floor	3400.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-08693	6	For 27 to 36 passenger/stretcher/goods lift of all types	1Floor	3600.00
	MAT-08694	7	For 3000 to 5000Kg goods lift of all types	1Floor	3900.00
		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	2700.00
	MAT-08696	2	For 8 to 12 passenger lift of all types	1Floor	2900.00
	MAT-08697	3	For 13 to 17 passenger/stretcher/goods lift of all types	1Floor	3300.00
	MAT-08698	4	For 18 to 23 passenger/stretcher/goods lift of all types	1Floor	3400.00
	MAT-08699	5	For 23 to 26 passenger/stretcher/goods lift of all types	1Floor	3600.00
	MAT-08700	6	For 27 to 36 passenger/stretcher/goods lift of all types	1Floor	3900.00
	MAT-08701	7	For 3000 to 5000Kg goods lift of all types	1Floor	4100.00
		A2	**If there are additional floors for Lift travelling above fifteen floors and up to Twenty floors , add as given below**		
	MAT-08702	1	For 4 to 7 passenger lift of all types	1Floor	2900.00
	MAT-08703	2	For 8 to 12 passenger lift of all types	1Floor	3300.00
	MAT-08704	3	For 13 to 17 passenger/stretcher/goods lift of all types	1Floor	3400.00
	MAT-08705	4	For 18 to 23 passenger/stretcher/goods lift of all types	1Floor	3600.00

SL. NO.	CFMS CODE	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2021-22 (Rs.)
1		2	3	4	5
	MAT-08706	5	For 23 to 26 passenger/stretcher/goods lift of all types	1Floor	3900.00
	MAT-08707	6	For 27 to 36 passenger/stretcher/goods lift of all types	1Floor	4100.00
	MAT-08708	7	For 3000 to 5000Kg goods lift of all types	1Floor	4500.00
		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	1800.00
	MAT-08710	2	For 8 to 12 passenger lift of all types	1Set	2000.00
	MAT-08711	3	For 13 to 17 passenger/stretcher/goods lift of all types	1Set	2100.00
	MAT-08712	4	For 18 to 23 passenger/stretcher/goods lift of all types	1Set	2400.00
	MAT-08713	5	For 23 to 26 passenger/stretcher/goods lift of all types	1Set	2100.00
	MAT-08714	6	For 27 to 36 passenger/stretcher/goods lift of all types	1Set	2500.00
	MAT-08715	7	For 3000 to 5000Kg goods lift of all types	1Set	3000.00

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
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
	1.5		**COPPER FLEXIBLE CABLES (AS PER IS:694)**
5	ELEC-1.5.1	CATEGORY- I	Makes: Finolex / RR kabel / Havells KEI/Polycab/Gloster/Goldmedal/GM
6	ELEC-1.5.2	CATEGORY- II	Makes: V-Guard/Bonton /Finecab/ HPL / Million /Fortune Art / Sudhakar/Orbit/ Tamra/ Anchor/Plaza/ Vihan/Ollvin/Laser/Beljin/Rhino/ Standard / Vimal
7	ELEC-1.5.3	CATEGORY- III	Makes: Star / Airson/ Benlo / Gemscab /Rajnigandha/ Avocab/CRI/Salzer/Spykaar/Unicab/AKG
			SHEATHED FLEXIBLE COPPER CABLES
8	ELEC-1.5.4	CATEGORY- I	Makes: Finolex / RR kabel / Havells /KEI/Polycab/ Gloster/ Goldmedal/GM
9	ELEC-1.5.5	CATEGORY- II	Makes: V-Guard/Bonton /Finecab/ HPL / Million / Fortune Art /Sudhakar/Orbit/ Tamra/Anchor /Plaza/ Vihan/Spykaar/ Ollvin/Laser/Beljin/Rhino/ Standard/ Vimal
10	ELEC-1.5.6	……	Makes: Finolex / Polycab / Havells / V-Guard / Gold Medal / GM / Million / Vimal /Airson/CRI/ Tamra/ ollvin/Avocab
	1.6		**SERVICE MAINS AND FLAT CABLE FOR SUBMERSIBLE MOTORS.**
11	ELEC- 1.6.1/1.6.2	……	Makes: Gold Medal / Million / GM / Vimal / Finecab / Nakoda / Plaza/ Payal / Sudhakar/ Rajnigandha/ Airson/Orbit/ollvin/Beljin
12	ELEC-1.6.3	CATEGORY- I	Makes: Finolex / RR Kabel/ Polycab / Havells / KEI/ Gloster/ Goldmedal / GM
13	ELEC-1.6.4	CATEGORY- II	Makes: V-Guard / Million / Vihan/Vimal /Finecab/ CRI/ Lubi/Unicab/Hitech/ Spykaar/ Airson/Ollvin/ Laser/ Beljin/Rhino/Sudhakar
	1.7		**FLUSH TYPE SWITCHES AND ACCESSORIES**
14	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**
15	ELEC- 1.8.1/1.8.3	CATEGORY- I	Makes: Legrand (Arteor/Myrius) / Schneider (Clipsal X/ Livia AB)/ Crabtree Murano or Ducor/L&T-englaze/ GM-(Four-Five)/ Goldmedal(GIFA)
16	ELEC- 1.8.2/1.8.4	CATEGORY- 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) /Ploycab(Levana)/ Anchor-Roma/ IndoAsian/ Pointer/ CPL/Kolors/ Vihan/Hosper/ Vimal
			SECTION - 2
	2.1		**PANEL MOUNTING SWITCH DISCONNECTOR FUSE UNITS (SDFU)**

17	ELEC-2.1.1	CATEGORY- I	Makes: L&T / Schneider / C&S / ABB / SIEMENS
18	ELEC-2.1.2	CATEGORY- II	Makes: Standard / Havells / HPL / Indo Asian / Benlo/Anchor
	2.2		**ON LOAD CHANGEOVER SWITCHES (OPEN EXECUTION)**
19	ELEC-2.2.1	CATEGORY- I	Makes: Socomec / L & T / HPL / Havells/ C&S
20	ELEC-2.2.2	CATEGORY- II	Makes: ABB / GE / Siemens / Indo Asian / Benlo/Standard
	2.3		**OFF LOAD CHANGE OVER SWITCHES IN SS ENCLOUSURE**
21	ELEC-2.3.1	CATEGORY- I	Makes: HPL / Havells / Standard / Indo Asian / C&S
22	ELEC-2.3.2	CATEGORY- II	Makes: Benlo / Million / GoldMedal /GM/ Vimal
	2.4		**AUTO TRANSFER SWITCH**
23	ELEC-2.4.1	……	Makes: Socomec /Hager /ABB/ HPL/L&T/Havells
24	ELEC-2.4.2	……	Makes: Socomec ATysP/ ABB/L&T
	2.5		**REWIRABLE / DOUBLE BREAK SWITCHES IN SS ENCLOSURE**
25	ELEC-2.5.1	CATEGORY- I	Makes: HPL / Havells / Standard / Indo Asian/Benlo
26	ELEC-2.5.2	CATEGORY- I	Makes: HPL / Havells / Standard / Indo Asian /Benlo
27	ELEC-2.5.3	CATEGORY- II	Makes:Anchor / GM / Million / Sputnik / Sigma / Gold Medal / Star/Kundan cab/Anchor.
28	ELEC-2.5.4	CATEGORY- II	Makes: Anchor / GM / Million / Sputnik / Sigma / Gold Medal / Star/Kundan cab/Anchor.
	2.6		**HRC FUSE LINKS (DIN/BOLTED TYPE)**
29	ELEC-2.6.1	……	Makes: L & T / G E / C & S / Standard / HPL / Havells / Siemens / Indo Asian
	2.7		**PORCELAIN REWIRABLE FUSE UNITS.**
30	ELEC-2.7.1	……	Makes: C&S/Standard/HPL/ Sputnik / Million / Gold Medal /GM/ Benlo /Anchor
31	ELEC-2.7.2	……	Makes: C&S/Standard/HPL/ Sputnik / Million / Gold Medal / GM/Benlo/Anchor
	2.8		**VOLTAGE SURGE PROTECTORS**
32	ELEC-2.8.1	……	Makes: Legrand / Siemens / G.E / L&T / Hager/Havells
	2.9		**PANEL MOUNTING MCCBs**
33	ELEC-2.9.1	CATEGORY- I	Makes: L&T- D shine / Schneider-CVS/Legrand -DP X3/ Siemens- 3VL / Hager-h3/C&S -Winbreak2/HPL-Techno
34	ELEC-2.9.2	CATEGORY- II	Makes: GE / ABB / Havells / Standard / Indo Asian
			PANEL MOUNTING ACBs (Microprocessor Based)
35	ELEC-2.9.3	CATEGORY- I	Makes: Siemens-3WLETU45B / L&T-U Power Omega(MTX3.5 EC) / Schneider -MVS 6.0V /Legrand-DMX3/C&S Winmaster-2)/HPL-Techno
36	ELEC-2.9.4	CATEGORY- II	Makes:ABB / GE / Indo Asian / Havells
			AIR INSULATED BUS DUCT
37	ELEC-2.9.5	……	Makes: Legrand (Zucchini) / C&S/Advance-Anant
38	ELEC-2.9.6	……	Makes: Legrand (Zucchini) / C&S/Advance- Anant
39	ELEC-2.9.7	……	Makes: Legrand (Zucchini) / C&S /Advance-Anant
40	ELEC-2.9.8	……	Makes: Legrand (Zucchini) / C&S/Advance-Anant
			SANDWITCH BUSDUCT
41	ELEC-2.9.9	……	Makes: Legrand (Zucchini) / L&T / Schneider/C&S/Advance-Anant
42	ELEC-2.9.10	……	Makes: Legrand (Zucchini) / L&T / Schiender / C&S /Advance-Anant
43	ELEC-2.9.11	……	Makes: Legrand (Zucchini) / L&T / Schiender /C&S/Advance-Anant
44	ELEC-2.9.12	……	Makes: Legrand (Zucchini) / Schiender /C&S/Advance-Anant
45	ELEC-2.9.13	……	Makes: Legrand (Zucchini) / L&T / Schiender /C&S/Advance-Anant
46	ELEC-2.9.14	……	Makes: Legrand (Zucchini) / L&T / Schiender /C&S/Advance-Anant
	2.1		**MCBs (AS PER IS:60898-1:2002)**
47	ELEC-2.10.1	CATEGORY- I	Makes: Legrand-DX3 / Schneider-A9/Hager-h3/ Siemens-5SX4/ Havells STADx /L&T-AU/Indo Asian-Opti pro/ HPL (Techno)

48	ELEC-2.10.2	CATEGORY- II	Makes: ABB- S200/Standard / Havells-euro II / C&S /L&T-Exora/ GM /Gold Medal/ Anchor/Salzer /Polycab
49	ELEC-2.10.3	CATEGORY- III	Makes:Milltec/ Sputnik / Benlo / Vimal /Precision/Amron/Million.
	2.11		**ISOLATORS CONFIRMS TO I E C 60947 PART-III**
50	ELEC-2.11.1	CATEGORY- I	Makes: Legrand-DX3 / Schneider-A9/Hager-h3/ Siemens-5SX4/ Havells STADx/L&T-AU/Indo Asian-Opti pro/HPL(Techno)
51	ELEC-2.11.2	CATEGORY- II	Makes: ABB- S200/Standard / Havells-euro II / C&S /L&T-Exora/ GM /Gold Medal/ Anchor/Salzer /Polycab
52	ELEC-2.11.3	CATEGORY- III	Makes: Milltec / Sputnik / Benlo / Vimal/ Precision/Amron/Million.
	2.12		**RCCBs(ELCB/RCD) CONFIRMS TO IEC:61008 AND IS:12640-1**
53	ELEC-2.12.1	CATEGORY- I	Makes: Legrand-DX3 / Schneider-A9/Hager-h3/ Siemens-5SX4/ Havells STADx/L&T-AU/Indo Asian-Opti pro/HPL(Techno)
54	ELEC-2.12.2	CATEGORY- 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
55	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)**
56	ELEC-2.13.1	CATEGORY- I	Makes: Legrand(Ekinox 3) / Schneider-A9/Hager -Novello+/ Seimens/Havells STADx/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno).
57	ELEC-2.13.2	CATEGORY- II	Makes: ABB/Standard / Havells-euro II / C&S / L&T/GM /Gold Medal/Anchor/Salzer/Polycab
58	ELEC-2.13.3	CATEGORY- III	Makes:Milltec / Sputnik / Benlo / Vimal/Precision/ Amron/Million.
			TPN DBs
59	ELEC-2.13.4	CATEGORY- I	Makes: Legrand (Ekinox 3) / Schneider-A9/Hager -Novello+/ Seimens/Havells STADx/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno).
60	ELEC-2.13.5	CATEGORY- II	Makes: ABB/Standard / Havells-euro II / C&S / L&T/GM /Gold Medal/Anchor/Salzer/Polycab
61	ELEC-2.13.6	CATEGORY- III	Makes: Milltec /Benlo / Vimal /Precision/Amron/Million.
			VTPN DBs
62	ELEC-2.13.7	CATEGORY- I	Makes: Legrand(Ekinox 3) / Schneider-A9/Hager -Novello+/ Seimens/Havells STADx/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno)
63	ELEC-2.13.8	CATEGORY- I	Makes: Legrand(Ekinox 3) / Schneider-A9/Hager -Novello+/ Seimens/Havells STADx/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno).
64	ELEC-2.13.9	CATEGORY- I	Makes: Legrand(Ekinox 3) / Schneider-A9/Hager -Novello+/ Seimens/Havells STADx/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno).
65	ELEC-2.13.10	CATEGORY- II	Makes: ABB/Standard / Havells-euro II / C&S / L&T/GM /Gold Medal/Anchor/Salzer
66	ELEC-2.13.11	CATEGORY- II	Makes: Siemens / ABB / Standard / Havells /Hager/ C&S/L&T/Anchor
67	ELEC-2.13.12	CATEGORY- II	Makes: ABB/Standard / Havells-euro II / C&S / L&T/GM /Gold Medal/Anchor/Salzer
68	ELEC-2.13.13	CATEGORY- I	Makes: Legrand(Ekinox 3) / Schneider-A9/Hager -Novello+/ Seimens/Crabtree Xpro classique-II/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno).
69	ELEC-2.13.14	CATEGORY- II	Makes: ABB/Standard / Havells-euro II / C&S / L&T/GM /Gold Medal/Anchor/Salzer/Polycab
70	ELEC-	CATEGORY- III	Makes: Milltec / Sputnik / Benlo / Vimal/Amron/Million.

	2.13.15		
71	ELEC-2.13.16	CATEGORY- I	Makes: Legrand(Ekinox 3) / Schneider-A9/Hager -Novello+/ Seimens/Havells STADx/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno).
72	ELEC-2.13.17	CATEGORY- II	Makes: Siemens / ABB / Standard / Havells / Hager/ C&S /L&T/ GM /Anchor/Gold Medal /Polycab
73	ELEC-2.13.18	CATEGORY- III	Makes: Milltec / Sputnik / Benlo / Vimal/Amron/Million.
			SECTION - 3
	3.1		**STREET LIGHT LUMINAIRES**
74	ELEC-3.1.1	CATEGORY- I	Makes: Phillips / Crompton / Bajaj / HPL/Surya
75	ELEC-3.1.2	CATEGORY-II	Makes: Style lamp / Mahita Electro / Capart / RK / Prolite/Kiran
76	ELEC-3.1.3	CATEGORY- I	Makes: Phillips / Crompton / Bajaj / Surya / Venture / Halonix
77	ELEC-3.1.4	CATEGORY- II	Makes: Style lamp / Mahita Electro / Capart / RK / Prolite/Kiran
78	ELEC-3.1.5	CATEGORY- I	Makes: Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Venture
79	ELEC-3.1.6	CATEGORY- II	Makes: Style lamp / Mahita Electro / Capart / RK / Prolite/Kiran
80	ELEC-3.1.7	……	Makes: Bajaj / Crompton / Surya / Capart / RK / Prolite
	3.2		**LED POST TOP LANTERN LUMINAIRES**
81	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
82	ELEC-3.2.2	……	Make: Keselec MIRI or equivalent in Philips/Wipro
83	ELEC-3.2.3	……	Make: Keselec CAMBRIDGE/ or equivalent in Philips/Wipro
84	ELEC-3.2.4	……	Makes: Crompton / Bajaj/ Wipro/Phillips/Keselec/Havells
	3.3		**ACCESSORIES FOR MV / SV / MH LUMINAIRES**
			COPPER BALLASTS
85	ELEC-3.3.1	……	Makes: Phillips / Bajaj / Crompton / Havells / Surya / Venture / Halonix/HPL
86	ELEC-3.3.2	……	Makes:Style lamp/ Mahita Electro / Capart / RK / Prolite
87	ELEC-3.3.3	……	Makes: Wipro / G.E. / Phillips / Crompton / Bajaj / Surya / HPL / Havells / Venture / Capart
88	ELEC-3.3.4	……	Makes: TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.
	3.4		**LAMPS**
89	ELEC-3.4.1	CATEGORY- I	Makes: Phillips / Osram / Crompton / Bajaj / Surya / Venture / Halonix/HPL.
90	ELEC-3.4.2	CATEGORY- II	Makes: Style Lamp / Mahita Electro / Capart
	3.5		**AUTOMATIC STREET LIGHT CONTROL SYSTEMS**
91	ELEC-3.5.1	……	Make: Swadeep Nature Switch / Lightmate/ GL/Bajaj
92	ELEC-3.5.2 a - e	……	Make: Swadeep Nature Switch / Light Mate /GL/Bajaj
93	ELEC-3.5.3 a - c	……	Makes : Swadeep /Super tech (Light Mate)/ L&T / Siemens / Bajaj
	3.6		**INTERNAL LUMINAIRES**
94	ELEC-3.6.1	CATEGORY- I	Makes: Wipro / G.E. / Phillips / Crompton / Bajaj/Havells/HPL/Halonix
95	ELEC-3.6.2	CATEGORY- II	Makes: Surya / Havells / Fortune Art/Kiran
96	ELEC-3.6.3	……	Makes: Crompton / Bajaj /Halonix/ Surya / RK / Million / Gold Medal
97	ELEC-3.6.4	……	Makes: Crompton / Bajaj / Halonix/Surya / RK / Style Lamp/HPL
98	ELEC-3.6.5	……	Makes: Crompton / Bajaj /Halonix/ Surya / RK / Style Lamp /HPL
99	ELEC-3.6.6	……	Makes: Crompton / Bajaj / Halonix/ Surya / RK / Style Lamp / Million / Gold Medal/HPL
100	ELEC-3.6.7	……	Makes: Crompton / Bajaj / Halonix/ Surya / RK / Style Lamp / Million / Gold Medal/HPL
101	ELEC-3.6.8	……	Makes: Crompton / Bajaj /Halonix/ Surya / RK / Style Lamp / Million / Gold Medal

102	ELEC-3.6.9	……	Makes: Crompton / Bajaj / Halonix/ Surya / RK / Style Lamp / Million / Gold Medal
103	ELEC-3.6.10	……	Makes: Phillips / Crompton / Bajaj / Halonix/ Surya
104	ELEC-3.6.11	……	Makes: Phillips / Crompton / Bajaj /Halonix/ Surya
	3.7		**FLOURSCENT TUBES / CFL LAMPS / LED BULBS**
105	ELEC-3.7.1	……	Makes: Phillips / Crompton / Bajaj / Surya / Havells / Style Lamp / Capart
106	ELEC-3.7.2	……	Makes: Phillips / Crompton / Bajaj / Surya / Style Lamp / Capart
107	ELEC-3.7.3	……	Makes: Phillips / Crompton / Bajaj / Surya / Style Lamp / Capart
108	ELEC-3.7.4	……	Makes: Wipro / G.E. / Phillips / Crompton / Bajaj / Havells / Surya / HPL / Halonix.
			LED BULBS
109	ELEC-3.7.5	……	. Makes: Phillips /Crompton / Bajaj / Havells / Halonix/GM/HPLSyska / Green Lites / Fortune Art / GoldMedal / Luker/Leo/Orbit /Rhino / GLO LED
110	ELEC-3.7.6	……	Makes: Phillips /Crompton / Bajaj / Havells / Halonix/GM/HPLSyska / Green Lites / Fortune Art / GoldMedal / Luker/Leo/Orbit/Rhino /GLO LED
111	ELEC-3.7.7	……	Makes : Philips/Bajaj / Crompton / Havells/ HPL.
	3.8		**LED LUMINAIRES INDOOR**
			DOWN LIGHTERS
112	ELEC-3.8.1	CATEGORY- I	a) LUMINAIRE MAKE : Phillips / GE-Venture / Crompton / Wipro / Bajaj / Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal/Eveready/ FortuneArrt b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG/Everlight
113	ELEC-3.8.2	CATEGORY- II	Makes : Surya /C&S / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Opple/R LED/Luker/ Orbit/Trinic /Panasonic /Rhino/ GLO LED /Vimal b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT
114	ELEC-3.8.3	CATEGORY- III	a) LUMINAIRE MAKE : Pasolite / Cosmo / Siger/ Koncept/ Kiran/Vibrant/Leo/Lumens/Ilite/Akarui b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT
			LED PANEL LIGHTS
115	ELEC-3.8.4	CATEGORY- I	a) LUMINAIRE MAKE : Phillips / GE- Venture / Crompton / Wipro / Bajaj / Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal/Eveready/ FortuneArrt b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG/Everlight.
116	ELEC-3.8.5	CATEGORY- II	Makes : Surya /C&S / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Opple/ Luker/ Orbit/Trinic/Lumens/Panasonic /Rhino/ GLO LED/ Vimal b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT
117	ELEC-3.8.6 a to f	CATEGORY- III	a) LUMINAIRE MAKE : Pasolite / Cosmo / Siger/ Koncept/ Kiran/Vibrant/Leo/Ilite/Akaruib) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT/ San'an
			COB DOWN LIGHTS
118	ELEC-3.8.7	CATEGORY- I	a) LUMINAIRE MAKE : Phillips / GE-Venture / Crompton / Wipro / Bajaj / Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal /Eveready/ FortuneArrt b) LED MAKE : Bridge Lux / LUMILEDS / CREE / NICHIA / Epistar/ Sunpo/Samsung
119	ELEC-3.8.8	CATEGORY- II	Makes : Surya /C&S / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Opple/Luker/ Orbit/ Trinic/Panasonic/Lumens/Panasonic /Rhino /GLO LED /Vimal/Akarui b) LED MAKE : Bridge Lux / LUMILEDS / CREE / NICHIA / Epistar/ Sunpo/Samsung
			SPOT LIGHTS / WALL WASHERS

120	ELEC-3.8.9	CATEGORY- I	a) LUMINAIRE MAKE : Phillips / GE-Venture / Crompton / Wipro / Bajaj/ Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal/Eveready/ FortuneArrt b) LED MAKE : Bridge Lux / LUMILEDS / CREE / NICHIA / Epistar/ Sunpo
121	ELEC-3.8.10	CATEGORY- II	Makes : Surya /C&S / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Opple/R LED/Luker/ Orbit/Trinic/Panasonic/Akarui b) LED MAKE : Bridge Lux / LUMILEDS / CREE / NICHIA / SAMSUNG/ Sunpo
122	ELEC-3.8.11	CATEGORY- 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.
123	ELEC-3.8.12	CATEGORY- II	Makes : Surya / Polycab/ Opple /Luker/ Orbit/Akarui b) LED MAKE : Bridge Lux/ CREE / NICHIA / Epistar
			LED BATTENs AND 2' x 2' LUMINARIES
124	ELEC-3.8.13	CATEGORY- I	a) LUMINAIRE MAKE : Phillips / GE- Venture / Crompton / Wipro / Bajaj / Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal/Eveready b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG/ Everlight.
125	ELEC-3.8.14	CATEGORY- II	Makes : Surya /C&S/ Fortune Art / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Opple/ Luker/ Orbit/ Trinic/Lumens/Panasonic/ Rhino/ GLO LED / Vimal b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT
126	ELEC-3.8.15	CATEGORY- III	a) LUMINAIRE MAKE : Pasolite / Cosmo / Siger/ Koncept/ Kiran/Vibrant/Leo/ilite/Akarui b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT
127	ELEC-3.8.16	CATEGORY- I	a) LUMINAIRE MAKE : Phillips / GE- Venture / Crompton / Wipro / Bajaj / Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal/Eveready b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.
128	ELEC-3.8.17	CATEGORY- II	Makes : Surya /C&S/ Fortune Art / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Opple/ Luker/ Orbit/ Trinic/Lumens/ilite/Panasonic /Rhino/ GLO LED/ Vimal/Akarui b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT
129	ELEC-3.8.18	……	Makes: Phillips / Crompton / Bajaj/Surya/Havells/HPL
130	ELEC-3.8.19	……	Makes: Greenlites / Fortune Art / Capart / GM / Goldmedal /Trinic/Kiran.
131	ELEC-3.8.20	CATEGORY- I	a) LUMINAIRE MAKE : Phillips / GE-Venture / Crompton / Wipro / Bajaj / Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal/Eveready / FortuneArrt b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG/Everlight.
132	ELEC-3.8.21	CATEGORY- II	Makes : Surya /C&S / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Opple/ Luker/ Orbit/Panasonic/Trinic/ilite/Panasonic /Rhino /GLO LED/ Vimal/Akarui b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT.
133	ELEC-3.8.22	……	Makes : Philips/Bajaj/ Crompton / Surya / Havells / Greenlites/ Insta Power/HPL /Halonix/ Panasonic. / FortuneArrt
134	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

135	ELEC-3.8.23	CATEGORY- 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) b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG
136	ELEC-3.8.24	CATEGORY- 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 Art (Leaf) b) LED MAKE :PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG.
137	ELEC-3.8.25	CATEGORY- 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/Rhino / GLO LED/ Vimal b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / LG.
138	ELEC-3.8.26	CATEGORY- III	a) LUMINAIRE Makes : Trinic / Pasolite / Sieger/Koncept/Vibrant/Leo/Lumens/Ilite/Akarui b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / LG.
			FLOOD LIGHTS
139	ELEC-3.8.27	CATEGORY- 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) b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.
140	ELEC-3.8.28	CATEGORY- II	a) LUMINAIRE Makes: Pharox / GM / Goldmedal / Syska / C&S/Cosmo/ Ib LED/ Vibrant/ Stanjo/Enrich/ Orbit/Luker/Trinic/Pro- lite/Ilite/Rhino /GLO LED /Vimal/Akarui b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / LG
			HIGH BAY LIGHTS
141	ELEC-3.8.29	CATEGORY- 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) b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG .
142	ELEC-3.8.30	CATEGORY- II	a) LUMINAIRE Makes: Pharox / GM / Goldmedal / Syska / C&S/Cosmo/ Ib LED/ Vibrant/ Stanjo/Enrich/Orbit/Luker/Trinic/Ilite/Rhino/ GLO LED/Akarui b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG.
143	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
144	ELEC-3.8.32	……	LUMINAIRE MAKE : Wipro / Philips/ Crompton/ Bajaj / Greenlites/ Havells/ FortuneArrt b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG/Seoul .
145	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.
146	ELEC-3.8.34	……	Make: Sunlite Suit2/Artnet or its equivalent
147	ELEC-3.8.35	……	Makes:colourdreamer/ AURA/Greenlites

148	ELEC-3.8.36	……	Makes:colourdreamer/ AURA/Greenlites
149	ELEC-3.8.37	……	Makes:colourdreamer/ AURA/Greenlites
150	ELEC-3.8.38	……	Makes:Mean Well or its equivalent
151	ELEC-3.8.39	……	Makes:Mean Well or its equivalent
			LED DRIVERS
152	ELEC-3.8.40	……	Makes: Philips /Crompton / Bajaj/ Havells/Surya/Greenlites/HPL/Halonix/Jaquar/Ib LED/Promtec/Eveready
153	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**
154	ELEC-4.1.1	CATEGORY- I	Makes: Torent / Universal / Unicab / Havells / KEI / Gloster/Finecab / Polycab /RR Kabel
155	ELEC - 4.1.2	CATEGORY- II	Makes: RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Delton / Payal / Gemscab/ Orbit/Avocab/Laser/Rhino.
			33 KV HT XLPE CABLES
156	ELEC-4.1.3	……	Make: Torrent / Universal / Unicab / Havells / KEI /Polycab/Gloster/RR Kabel/RPG
			11 KV HT XLPE CABLES
157	ELEC- 4.1.4	……	Make: Torrent / Universal / Unicab / Havells / KEI /Polycab/Gloster/RR Kabel/RPG
			Un Armoured and Armoured Copper Control Cables
158	ELEC-4.1.5	……	Make: Torrent / Universal / Unicab / Havells / KEI /Polycab/Gloster /orbit / Paragon/ RR Kabel/ RPG
159	ELEC-4.1.6	……	Make: Torrent / Universal / Unicab / Havells / KEI /Polycab/Gloster/Orbit/ Paragon/RR Kabel/RPG/Rhino
			CABLE TERMINATIONS AND ACCESSORIES
160	ELEC-4.1.7	……	Makes: Raychem /M seal/ Denson/ Multy/ Transeal-Hongshang
161	ELEC-4.1.8	……	Makes: Raychem /M seal/ Denson/ Multy/ Transeal-Hongshang
162	ELEC-4.1.9	……	Makes: Raychem /M seal/ Denson/ Multy/ Transeal-Hongshang
163	ELEC-4.1.10	……	Makes:Dowels/Comet/SMI
164	ELEC-4.1.11	……	.Makes:Dowels/Comet/SMI
165	ELEC-4.1.12	……	Makes:Dowels/Jainson/Comet
166	ELEC-4.1.13	……	Makes:Dowels/Jainson/Comet
	4.3		**DOUBLE WALLED CORRUGATED HDPE PIPE**
167	ELEC-4.3.1 a- h	……	Makes:DURA LINE (Dura Guard)/Precision or its equivalent make.
			SECTION - 5
	5.1		**FANS**
168	ELEC-5.1.1	……	Makes : Atomberg(Gorilla GV2)/ Halonix(Plasma) /Havells(Efficiencia Neo)
169	ELEC-5.1.2	……	Makes : Atomberg(Gorilla GV2)/ Halonix(Plasma) /Havells(Efficiencia Neo)
170	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)
171	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)
172	ELEC-5.1.5	……	Makes : Crompton HS / Havells Velocity ES 50/Orient Summer Breeze Pro /Halonix(Zephyr)/Polycab(Synergy 50 ISI)
173	ELEC-5.1.6	……	Makes: Crompton Wind Flo / Bajaj Elite / Havells Swing / Orient Wall 50/Halonix Krypton/G.M. (Bolt)/ Goldmedal(Nora-16)

174	ELEC-5.1.7	……	Makes: Crompton Wind Flo / Bajaj Spectrum / Havells Swing / Orient Stand 37/Halonix Krypton/Polycab / G.M. (Bolt)/Goldmedal(Nora-16)
175	ELEC-5.1.8	……	Makes: Crompton / Havells Turbo Force / Orient Tornado II / Almounard/Halonix Turbon/Polycab./ G.M. (Air-Burst)
176	ELEC-5.1.9	……	Makes: Crompton / Havells Turbo Force / Almounard/Halonix
177	ELEC-5.1.10	……	Makes: Crompton / Havells ciera / Orient Wall 11/Halonix
178	ELEC-5.1.11	……	Makes: Crompton / Bajaj Bahar WG / Havells Ventil Air-DSP / Orient hill air/Halonix /Polycab/G.M. (Xenix)/Goldmedal (Rapido-12)
179	ELEC-5.1.12	……	Makes: Crompton / Bajaj Bahar WG / Havells Ventil Air-DSP / Orient hill air/Halonix /Polycab/ G.M. (Xenix)/Goldmedal (Rapido-9)
180	ELEC-5.1.13	……	Makes: Crompton / Almounard / Havells Ventil Air-DB
181	ELEC-5.1.14	……	Makes: Crompton / Almounard / Havells Turbo Force/Halonix Krypton
182	ELEC-5.1.15	……	Makes: Crompton / Almounard / Havells Turbo Force/Halonix Krypton
	5.2		**WATER HEATERS (Conventional & Solar)**
183	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
184	ELEC-5.2.2	……	Make:TATA / BHEL/ BOSCH/ ETC/V-GUARD /RACOLD
185	ELEC-5.2.3	……	Make:TATA / BHEL/ BOSCH/ ETC/V-GUARD /RACOLD
186	ELEC-5.2.4	……	Make:Jaquar/AO Smith/Voltex/Racold /Rheem
187	ELEC-5.2.5	……	Make:Jaquar/AO Smith/Voltex/Racold /Rheem
	5.4		**PUMPSETS**
			SINGLE PHASE SUBMERSIBLE MOTOR PUMP SETS
188	ELEC-5.4.1	CATEGORY- I	Makes: Kirloskar / Crompton / Texmo / CRI / KSB/Lubi/ PSG/AryenVarsha/ Falcon
189	ELEC-5.4.2	CATEGORY- II	Makes: Pluga / Sterling / Kumar / Unnati zen/Duke/Lada/Ellen/ Suguna/UNItek/KSP(Karunya)/Anco/Sabar/Fitwell/Deccan /Karvel / SILVER
			THREE PHASE SUBMERSIBLE MOTOR PUMP SETS.
190	ELEC-5.4.3	CATEGORY- I	Makes: Kirloskar / Crompton / Texmo / CRI / KSB/Lubi/ PSG/AryenVarsha/Falcon
191	ELEC-5.4.4	CATEGORY- II	Makes: Pluga / U-Neel / Sterling / Kumar / Unnati zen/Duke/Lada/Ellen/ Suguna/ UNItek/KSP(Karunya)/ Anco/ Sabar/ Fitwell/Deccan/Karvel/ SILVER
192	ELEC-5.4.5	CATEGORY- I	Makes: Kirloskar / Crompton / Texmo / CRI / KSB/Lubi/ PSG/AryenVarsha/Falcon
193	ELEC-5.4.6	CATEGORY- II	Makes: Pluga / U-Neel / Sterling /Kumar / Unnati zen/Duke/Lada/Ellen/ Suguna/UNItek /KSP (Karunya) /Anco/ Sabar/Fitwell/Polycab/Deccan/Karvel/ SILVER
			SINGLE PHASE OPEN WELL SUBMERSIBLE MOTOR PUMP SETS
194	ELEC-5.4.7	CATEGORY- I	Makes: Kirloskar / Crompton / Texmo / CRI / KSB/Lubi/PSG/ AryenVarsha/Falcon
195	ELEC-5.4.8	CATEGORY- II	Makes: Pluga / U-Neel / Sterling / Kumar / Unnati zen/Duke/LDK/Ellen/ Suguna/UNItek /KSP (Karunya) / Anco/ Sabar/Fitwell/Deccan/Karvel/ SILVER
			THREE PHASE OPEN WELL SUBMERSIBLE PUMP SETS
196	ELEC-5.4.9	CATEGORY- I	Makes: Kirloskar / Crompton / Texmo / CRI / KSB/Lubi /PSG/ AryenVarsha/Falcon
197	ELEC-5.4.10	CATEGORY- II	Makes: Pluga / U-Neel / Sterling / Kumar / Unnati zen/Duke/LDK/Ellen/ Suguna/UNItek/ KSP(Karunya) /Polycab/ Anco/ Sabar /Fitwell/Deccan/Karvel/ SILVER
			SINGLE PHASE MONO BLOCK MOTOR PUMP SETS.
198	ELEC-5.4.11	CATEGORY- I	Makes: Kirloskar / Crompton / Texmo / CRI / KSB/Lubi / Havells Hi-flow V2 / PSG/AryenVarsha/Falcon

199	ELEC-5.4.12	CATEGORY- II	Makes: Pluga / U-Neel / Sterling /Kumar / Unnati zen/Ellen/LDK/Suguna/ UNItek/Polycab/Anco/ Sabar/Fitwell/Deccan/Karvel / SILVER
200	ELEC-5.4.13	CATEGORY- I	Makes: Kirloskar / Crompton / Texmo / CRI / KSB /Lubi/ AryenVarsha/Falcon
201	ELEC-5.4.14	CATEGORY- II	Makes: Pluga / U-Neel / Sterling /Kumar / Unnati zen/Ellen/LDK/Suguna/ UNItek/Polycab/Anco/ Sabar/Fitwell/Deccan/Karvel/ SILVER
			CONTROL PANEL BOARD FOR MOTOR PUMPSETS
202	ELEC-5.4.15	……	make C&S/LTLK/ Seimens/ BCH/KSP(Karunya)/ Crompton. complete.,
203	ELEC-5.4.16	……	make C&S/LTLK/Seimens/BCH /KSP(Karunya) /Crompton. complete.,.
204	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.
205	ELEC-5.4.18	……	Makes: Siemens / Crompton / L&T (MF1)
206	ELEC-5.4.19	……	Makes: Siemens / Crompton / L&T (MK2 DOL).
207	ELEC-5.4.20	……	Makes: Siemens / Crompton / L&T (MU1 DOL)
			UPVC PIPES AND FITTINGS
208	ELEC-5.4.21	……	Makes : Ashirvad / Finolex / Waterflo /Sudhakar/Precision.
209	ELEC-5.4.27	……	Makes : Ashirvad / Finolex / Waterflo
210	ELEC-5.4.28	……	Makes : Ashirvad / Finolex / Waterflo / Apollo
	5.1		**AIR CONDITIONERS**
211	ELEC-5.5.1		**1.5TR Split ACs**
	a	CATEGORY- I	Makes: Mitsubishi MS-GK 18VA / O General ASGG18CPTA-B/Toshiba RAS-18J2KG-IN
	b	CATEGORY- II	Makes: Blue Star FS318YBTU / Daikin FTL Sereis / Hitachi / Voltas / Carrier Emperia Nx /LG-Q18PNXA
			2.0 TR Split Acs
	c	CATEGORY- I	Makes: Mitsubishi MS- GK24VA / O General ASGG24CPTA-B/ Toshiba RAS-24J2KG-IN
	d	CATEGORY- II	Makes: / Hitachi / Blue Star FS324YATU / Daikin / Voltas /Carrier Emperia Nx/ LG-Q24HNXA
			Inverter Split AC Unts (Cooling Only)
212	ELEC-5.5.2		**0.8/ 1.0TR Split Acs**
	a	CATEGORY- I	Makes: Mitsubishi MSY-GN10VF/ O General ASGG12CGTA-B/ Toshiba
	b	CATEGORY- II	Makes: Blue star /Carrier /Hitachi/Daikin/ LG-Q12KNZA
	c	CATEGORY- I	Makes: Mitsubishi MSY-GN13VF/ O General ASGG14CGTA-B/ Toshiba RAS-13U2KCVSG-IN
	d	CATEGORY- II	Makes: Blue Star IC512DATUL / Carrier Emperia Nxi / Hitachi / Daikin/ LG-Q12KNZA
			1.5, 1.8 & 2.0TR Split Acs
	e	CATEGORY- I	Makes: Mitsubishi MSY-GN18VF / O General ASGG18CGTA-B/Toshiba RAS-18U2KCVSG-IN
	f	CATEGORY- II	Makes: / Blue Star IC718DCTU / Daikin FTKG50TV16U / Hitachi/Carrier Emperia Nxi / LG-Q18KNZA
	g	CATEGORY- I	Makes: Mitsubishi MSY-GN22VF / O General /Toshiba
	h	CATEGORY- II	Makes: Blue star / Hitachi / Daikin
	i	CATEGORY- I	Makes: Mitsubishi MSY- GN26VF /O General ASGG24CGTA-B/Toshiba RAS-24U2KCVSG-IN
	j	CATEGORY- II	Makes: Blue star IC524DBTU / Hitachi / Daikin/Carrier Emperia Nxi

			INVERTER CASSETTE TYPE AC UNITS
213	ELEC-5.5.35		
	a	CATEGORY- I	Makes: Mitsubishi PLY- SP18EA / Toshiba RAV-SE561UP / O General.
	b	CATEGORY- I	Makes: Mitsubishi PLY- SP24EA / O General AUGA25FRTA-B / Toshiba RAV-SE801UP
	c	CATEGORY- II	Makes: Blue Star3HNCS24YAF/ Daikin / Carrier/ LG
	d	CATEGORY- I	Makes: Mitsubishi PLY- SP42EA / O General /Toshiba
	e	CATEGORY- II	Makes: Daikin / Bluestar / Carrier
	f	CATEGORY- I	Makes: Mitsubishi PLY-SP48EA / O General / Toshiba RAV-SE1251UP
	g	CATEGORY- II	Makes: Blue Star / Carrier / Daikin/LG
			TOWER MODEL (Vertical) TYPE AC UNITS
214	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)
215	ELEC-5.6.1	CATEGORY- I	Makes: Mitsubishi /DAIKIN/Toshiba/O General
216	ELEC-5.6.2	CATEGORY- II	Makes: LG/Voltas/Blue star/Hitachi/Carrier/Samsung
217	ELEC-5.6.6	CATEGORY- I	Makes: Mitsubishi /DAIKIN/Toshiba/ O General
218	ELEC-5.6.7	CATEGORY- II	Makes: LG/Voltas/Blue star/Hitachi/Carrier/Samsung
219	ELEC-5.6.8	CATEGORY- I	Makes: Mitsubishi /DAIKIN/Toshiba /O General
220	ELEC-5.6.9	CATEGORY- II	Makes: LG/Voltas/Blue star/Hitachi/Carrier/Samsung
221	ELEC-5.6.10	CATEGORY- I	Makes: Mitsubishi /DAIKIN/Toshiba/ O General
222	ELEC-5.6.11	CATEGORY- II	Makes: LG/Voltas/Blue star/Hitachi/Carrier/Samsung
223	ELEC-5.6.13	CATEGORY- I	Makes: Mitsubishi /DAIKIN/Toshiba/ O General
224	ELEC-5.6.14	CATEGORY- II	Makes: LG/Voltas/Blue star/Hitachi/Carrier/Samsung
			Refrigerant Piping
225	5.6.20	……	Makes:Totaline/Mandav/Mexico
226	ELEC-5.6.25	……	Makes:TATA/Jindal
	5.7		EVAPORATIVE AIR COOLING SYSTEM
227	ELEC-5.7.1	……	Makes: Cool Breeze / Breeze Air
228	ELEC-5.7.2	……	Makes: Cool Breeze /Breeze Air
			STABILIZERS
229	ELEC-5.8.1	CATEGORY- I	Makes: V-Guard / Real Guard / Uni Stab / ITL.
230	ELEC-5.8.2	CATEGORY- II	Makes: Keeline / Soft Line
	5.9		**REPAIRING OF FANS, COOLERS, PUMPS, MOTORS, FRIDGES AND AIRCONDITIONERS**
231	ELEC-5.9.16	……	Makes:Carrier/ Kirlosker/ Techam-Shah/ Shriram/ Voltas
232	ELEC-5.9.17	……	Makes: DAIKIN/LG/Carrier/Kirloskar/Techam-shah
233	ELEC-5.9.25	……	Make: Copper:Totaline /Nippon /Mandev/Nitrile Insulation: Kflex/ Totaline /Armaflex
234	ELEC-5.9.26	……	Makes : Crompton / AU.
			SECTION 6
	6.1		**SWAGED / OCTAGONAL POLES AND GARDEN POSTS**
			OCTOGONAL POLEs
235	ELEC-6.1.4	……	Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper/Consoul
236	ELEC-6.1.5	……	Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper/Consoul
237	ELEC-6.1.6	……	Makes: Bajaj / Valmont/Laasma/Transrail/Utkarsh/ Skipper/Consoul
238	ELEC-6.1.7	……	Makes: Bajaj / Valmont/Laasma//Transrail/Utkarsh/ Skipper/Consoul
			DECORATIVE DRAGON TYPE BRACKET WITH POLE
239	ELEC-6.1.8	……	Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper/Consoul
240	ELEC-6.1.10	……	Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper/Consoul

			POLE BRACKETS
241	ELEC-6.1.11	……	Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper/Consoul
242	ELEC-6.1.12	……	Makes: Bajaj / Valmont/Laasma //Transrail/Utkarsh/ Skipper/Consoul
243	ELEC-6.1.13	……	Makes: Bajaj / Valmont/Laasma//Transrail/Utkarsh/ Skipper/Consoul
244	ELEC-6.1.14	……	Makes: Bajaj / Valmont/Laasma//Transrail/Utkarsh/ Skipper/Consoul
245	ELEC-6.1.15	……	Makes: Bajaj / Valmont/Laasma//Transrail/Utkarsh/ Skipper/Consoul
246	ELEC-6.1.16	……	Makes: Bajaj / Valmont/Laasma//Transrail/Utkarsh/ Skipper/Consoul
247	ELEC-6.1.17	……	Makes: Bajaj / Valmont/Laasma//Transrail/Utkarsh/ Skipper/Consoul
248	ELEC-6.1.18	……	Makes: Bajaj / Valmont/Laasma//Transrail/Utkarsh/ Skipper/Consoul
249	ELEC-6.1.19	……	Makes: Bajaj / Valmont/Laasma//Transrail/Utkarsh/ Skipper/Consoul
250	ELEC-6.1.20	……	Makes: Bajaj / Valmont/Laasma//Transrail/Utkarsh/ Skipper/Consoul
			HIGH MAST POLES
251	ELEC-6.1.21	……	Makes: Bajaj / Valmont/Laasma/Transrail/Utkarsh/ Skipper/Consoul
252	ELEC-6.1.22	……	Makes: Bajaj / Valmont/Laasma/Transrail/Utkarsh/ Skipper/Consoul
253	ELEC-6.1.23	……	Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper/Consoul
			FEEDER PILLAR BOXES
254	ELEC-6.1.24	……	FP MCBmake :Legrand / Schnieder / L&T
255	ELEC-6.1.25	……	FP MCBmake :Legrand / Schnieder / L&T
			ERRECTION- HIGH MAST POLES
256	ELEC-6.1.29	……	Make : Hensel/Sadhrish
			GRP POLES
257	ELEC-6.1.34	……	Makes: Bajaj / Kemrock / Valmont/Sumip/Helipole
258	ELEC-6.1.35	……	Makes: Bajaj / Kemrock / Valmont/Sumip / Helipole
	6.2		**LT PANEL AND ACCESSORIES**
259	ELEC-6.2.3	……	.Make: Conzerve/Elmeasure/Meco/HPL/L&T/socomec
260	ELEC-6.2.4	……	Make: Conzerve/Elmeasure/ Meco/HPL/L&T/Schneider/AE/Socomec
261	ELEC-6.2.5	……	Make: Kappa/L&T/Seimens/C&S/Schneider
262	ELEC-6.2.6	……	Make: L&T /C&S/SALZER/HPL
263	ELEC-6.2.7	……	Make: L&T /C&S/SALZER/HPL
264	ELEC-6.2.8	……	Makes: CONZERVE / ELMEASURE / MECO / HPL / HAVELLS/L&T.
265	ELEC-6.2.12	……	Makes: L&T/Seimens/Epcos/Schneider/Havells
266	ELEC-6.2.13	……	Makes: L&T/Seimens/Epcos /Schneider/ ABB/Neptune
267	ELEC-6.2.14	……	makes: L&T (SALZER)/ABB/Schneider/Seimens/C&S/HPL
268	ELEC-6.2.15	……	Make:Seimens/ABB/Schneider/L&T/C&S/HPL/Havells
269	ELEC-6.2.16	……	Make:Seimens/ABB/Schneider/L&T/C&S/HPL/Havells
270	ELEC-6.2.17	……	Make:Seimens/ABB/Schneider/L&T/C&S/HPL/Havells
271	ELEC-6.2.18	……	Make:Seimens/ ABB/ Schneider/L&T/C&S/HPL
	6.3		**SUB STATION EQUIPMENT AND TRANSFORMERS**
272	ELEC-6.3.1	……	make:as approved By DISCOMs
273	ELEC-6.3.1a	……	Make:ABB/ Megawin/Amara Raja/L&T
274	ELEC-6.3.2		Makes:ABB/Schneider/Seimens/Kirlos kar/Amara Raja/Megawin/L&T
275	ELEC-6.3.3	……	Makes:ABB/Schneider/Seimens/Kirlos kar/Amara Raja/Megawin/L&T
			Oil Immersed TRANSFORMERS
276	ELEC-6.3.4	CATEGORY- I	Make:ABB/ALSTOM/SEIMENS/Kirloskar/Voltamp/

			Esennar/KPEL/SSE
277	ELEC-6.3.4 A	CATEGORY- II	Make:THOTA
278	ELEC-6.3.5	CATEGORY- I	Makes:Schneider/Kirloskar/Voltamp/ Esennar/ Toshiba/ KPEL/ Powertech /SSE
279	ELEC-6.3.5 A	CATEGORY- II	Makes:THOTA
280	ELEC-6.3.5 B	CATEGORY- I	Make:Schneider/Kirloskar/Voltamp/ Esennar/ Toshiba/ KPEL/ Powertech /SSE
281	ELEC-6.3.5 C	CATEGORY- II	Make:THOTA
282	ELEC-6.3.6	……	Make:ABB/ALSTOM/SEIMENS/Crompton/Kirloskar/Voltamp/ Esennar
283	ELEC-6.3.7	……	Make:ABB/ALSTOM/SEIMENS/Crompton/Kirloskar/Voltamp/ Esennar
	6.6		**LIGHTENING PROTECTIVE SYSTEM**
			Advanced LPS
284	ELEC-6.6.1 a	……	Make : THUNDERGUARD(EARTHPLUS)/ KALRE/ NIMBUS / FOREND
285	ELEC-6.6.1 b	……	Make : THUNDERGUARD(EARTHPLUS)/ KALRE/ NIMBUS / FOREND
286	ELEC-6.6.1 c	……	Make : THUNDERGUARD(EARTHPLUS)/ KALRE/ NIMBUS / FOREND
287	ELEC-6.6.3	……	Make: EARTHPLUS (THUNDER GUARD) / NIMBUS / KALRE / FOREND
288	ELEC-6.6.5	……	Make: EARTHPLUS /CIRPROTEC /INDALAC / INGESCO
			SECTION 7
	7.0		**LOCAL AREA NETWORK**
289	ELEC-7.1.1	……	Makes: Systimax /AMP/ Panduit/ Siemond/ Molex/Legrand
290	ELEC-7.1.2	……	Makes: Systimax /AMP/ Panduit/ Siemond/ Molex/Legrand
291	ELEC-7.1.3	……	Makes: Systimax /AMP/ Panduit/ Siemond/ Molex/Legrand
292	ELEC-7.1.4	……	Makes: Systimax /AMP/ Panduit/ Siemond/ Molex/Legrand
293	ELEC-7.1.5	……	Makes: Systimax /Legrand/Molex/Krone /AMP
294	ELEC-7.1.6	……	Makes: Systimax/Legrand/Molex/Krone /AMP
295	ELEC-7.1.7	……	Makes: Systimax/Legrand/Molex/Krone /AMP
296	ELEC-7.1.8	……	Makes: Systimax/Legrand/Molex/Krone /AMP
297	ELEC-7.1.9	……	Makes: Systimax /Legrand/Molex/Panduit/Siemond/AMP
298	ELEC-7.1.10	……	Makes:Systimax /Legrand/Molex/Panduit/Siemond/AMP
299	ELEC-7.1.11	……	Makes: Systimax/Legrand/Molex/Panduit/Siemond/AM P
300	ELEC-7.1.12	……	Makes: Systimax /Legrand/Molex/Panduit/Siemond/AMP
301	ELEC-7.1.13	……	Makes: Systimax /Legrand/Molex/Panduit/Siemond/AMP
302	ELEC-7.1.14	……	Make: APW/HCL/Valrack/Netrack
303	ELEC-7.1.15	……	Make: APW/HCL/Valrack/Netrack
			MANAGEBLE NET WORK SWITCHES
304	ELEC-7.1.16	……	Makes : Cisco Model SG350-28 or equivalent in Juniper/Extreme
305	ELEC-7.1.17	……	Makes :Cisco Model SG300-52 or equivalent in Juniper/Extreme
306	ELEC-7.1.18	……	Makes : Cisco Model:SG-350- 8PP or equivalent in Juniper/Extreme
307	ELEC-7.1.19	……	Makes : Cisco Model:SG-350-28PP or equivalent in Juniper/Extreme
308	ELEC-7.1.20	……	Makes :Cisco Model SG350-28SFP or equivalent in Juniper/Extreme
309	ELEC-7.1.21	……	Makes: CISCO WS - C2960+24TC-L or equivalent in JUNIPER/ EXTREME
310	ELEC-7.1.22	……	Makes: CISCO WS- C2960+48TC-L or equilent in JUNIPER/EXTREME
311	ELEC-7.1.23	……	Make: CISCO-C2960+24PC-L or equilent in JUNIPER/EXTREME
312	ELEC-7.1.24	……	Make: CISCO-C2960+48PST-L or equilent in JUNIPER/EXTREME
313	ELEC-7.1.25	……	Make: CISCO WS - C2960X-24TS-L or equivalent in JUNIPER/ EXTREME

314	ELEC-7.1.26	……	Make: CISCO WS - C2960X-48TS-L or equivalent in JUNIPER/ EXTREME
315	ELEC-7.1.27	……	Make : Cisco Aironet 1815i or equivalent in Ruckus/Aruba
	7.3		**COMPUTERS,PRINTERS AND SCANNERS**
316	ELEC-7.3.1	……	Model : HP ProDesk or its equivalent in Dell/Lenova
317	ELEC-7.3.2	……	Model : HP ProDesk or its equivalent in Dell/Lenova
318	ELEC-7.3.3	……	Make : HP LaserJet 1020 Plus Printer (OR) It's Equivalent in Canon /Epson
319	ELEC-7.3.4	……	makes: Canon imageCLASS MF244dw /HP/Brother DCPB7535DW or its equivalent
320	ELEC-7.3.5	……	Make : Brother ADS-2400N document scanner (OR) It's Equivalent in Canon/HP
321	ELEC-7.3.6	……	Makes: Finolex / Delton / Surabi / Polycab
322	ELEC-7.3.7	……	Makes: Krone or its equivalent.
323	ELEC-7.3.8	……	Makes: Finolex / Delton / Surabi / Polycab.
324	ELEC-7.3.9	……	Makes: Finolex / Delton / Surabi / Polycab
325	ELEC-7.3.10	……	Makes: Finolex / Delton / Surabi / Polycab
326	ELEC-7.3.11	……	Makes: Finolex / Delton / Surabi / Polycab.
			EPABX SYSTEM
	7.4		**SMALL SYSTEM**
327	ELEC-7.4.1	……	Makes: NEC/ Alcatel /Avaya/Siemens
328	ELEC-7.4.2	……	Makes: NEC/ Alcatel /Avaya/Siemens
329	ELEC-7.4.3	……	Makes: NEC/ Alcatel /Avaya/Seimens
330	ELEC-7.4.4	……	Makes: NEC/ Alcatel /Avaya/Siemens
331	ELEC-7.4.5	……	Makes: NEC/ Alcatel /Avaya/Siemens
	7.5		**LARGE SYSTEM**
332	ELEC-7.5.1	……	Makes: NEC/ Alcatel /Avaya/Siemens
333	ELEC-7.5.2	……	Makes: NEC/ Alcatel /Avaya/Siemens
334	ELEC-7.5.3	……	Makes: NEC/ Alcatel /Avaya/Siemens
335	ELEC-7.5.4	……	Makes: NEC/ Alcatel /Avaya/Siemens
336	ELEC-7.5.5	……	Makes: NEC/ Alcatel /Avaya/Siemens
	8.1	**MISCELLANEOUS ITEMS**	
		NIL	
	9.1		**WIRELESS FIRE ALARAM SYSTEM**
337	ELEC-9.1.1	……	Makes: Cease Fire / Visonic / Honeywell
338	ELEC-9.1.2	……	Makes: Cease Fire / Visonic /Honeywell.
339	ELEC-9.1.3	……	Makes: Cease Fire / Visonic / Honeywell.
340	ELEC-9.1.4	……	Makes: Cease Fire / Visonic / Honeywell.
341	9.2		**ADDRESSABLE - FIRE ALARM SYSTEM**
342	ELEC-9.2.1 a - f	CATEGORY- I	Makes: Notifier / Edwards/Bosch
343	ELEC-9.2.2 a - f	CATEGORY- II	Makes: Siemens / Morley / Honeywell/ Ravel/Seaara/Apollo
344	ELEC-9.2.3	CATEGORY- I	Makes: Notifier / Edwards/Bosch
345	ELEC-9.2.4	CATEGORY- II	Makes: Siemens / Morley / Honeywell/ Ravel/Seaara/Apollo
346	ELEC-9.2.5	CATEGORY- I	Makes: Notifier / Edwards/Bosch
347	ELEC-9.2.6	CATEGORY- II	Makes: Siemens / Morley / Honeywell/ Ravel/Seaara/Apollo
348	ELEC-9.2.7	CATEGORY- I	Makes: Notifier / Edwards/Bosch
349	ELEC-9.2.8	CATEGORY- II	Makes:Siemens / Morley / Honeywell/ Ravel/Seaara/Apollo
350	ELEC-9.2.9	CATEGORY- I	Makes: Notifier / Edwards/Bosch
351	ELEC-9.2.10	CATEGORY- II	Makes: Siemens / Morley / Honeywell/ Ravel/Seaara/Apollo.
352	ELEC-9.2.11	CATEGORY- I	Makes: Notifier / Edwards/Bosch
353	ELEC-9.2.12	CATEGORY- II	Makes:Siemens / Morley / Honeywell/ Ravel/Seaara/Apollo.
354	ELEC-9.2.13	CATEGORY- I	Makes: Notifier / Edwards/Bosch
355	ELEC-9.2.14	CATEGORY- II	Makes: Siemens / Morley / Honeywell/ Ravel/Seaara/Apollo.
356	ELEC-9.2.15	CATEGORY- I	Makes: Notifier / Edwards/Bosch
357	ELEC-9.2.16	CATEGORY- II	Makes:Siemens / Morley / Honeywell/ Ravel/Seaara/Apollo.
358	ELEC-9.2.17	CATEGORY- I	Makes: Notifier / Edwards/Bosch
359	ELEC-9.2.18	CATEGORY- II	Makes:Siemens / Morley / Honeywell/ Ravel/Seaara/Apollo .
360	ELEC-9.2.19	CATEGORY- I	Makes: Notifier / Edwards/Bosch

361	ELEC-9.2.20	CATEGORY- II	Makes:Siemens / Morley / Honeywell/ Ravel/Seaara/Apollo.
	9.3		**CONVENTIONAL - FIRE ALARM SYSTEM**
362	ELEC-9.3.1	……	Makes: System Censor / Ravel/Vertex
363	ELEC-9.3.2	……	Makes: Makes: System Censor / Ravel/Vertex
364	ELEC-9.3.3	……	Makes: System Censor / Ravel/Vertex
365	ELEC-9.3.4	……	Makes: System Censor / Ravel/Vertex
366	ELEC-9.3.5	……	Makes: System Censor / Ravel/Vertex/Apollo.
367	ELEC-9.3.6	……	Makes: Makes: System Censor / Ravel/Vertex
368	ELEC-9.3.7	……	Makes: System Censor / Ravel/Vertex
369	ELEC-9.3.8	……	Makes: System Censor / Ravel/Vertex
	9.4		**POWDER BASED FIRE EXTINGUISHERS**
370	ELEC-9.4.1	CATEGORY- I	Makes : Cease Fire / Minimax
371	ELEC-9.4.2	CATEGORY- II	Makes : Safex / Kenex / Bharat / Reliance/NewTech/Kartar
372	ELEC-9.4.3	CATEGORY- I	Makes : Cease Fire / Minimax
373	ELEC-9.4.4	CATEGORY- II	Makes : Safex / Kenex / Bharat / Reliance/NewTech/Kartar
374	ELEC-9.4.5	CATEGORY- I	Makes : Cease Fire / Minimax
375	ELEC-9.4.6	CATEGORY- II	Makes : Safex / Kenex / Bharat / Reliance/NewTech/Kartar
376	ELEC-9.4.7	CATEGORY- I	Makes : Cease Fire / Minimax
377	ELEC-9.4.8	CATEGORY- II	Makes : Safex / Kenex / Bharat / Reliance/NewTech/Kartar
			CLEAN AGENT FIRE EXTINGUISHERS
378	ELEC-9.4.9	CATEGORY- I	Makes : Cease Fire / Minimax
379	ELEC-9.4.10	CATEGORY- II	Makes : Safex / Kenex / Bharat / Reliance/NewTech
380	ELEC-9.4.11	CATEGORY- I	Makes : Cease Fire / Minimax
381	ELEC-9.4.12	CATEGORY- II	Makes : Safex / Kenex / Bharat / Reliance/NewTech
382	ELEC-9.4.13	CATEGORY- I	Makes : Cease Fire / Minimax
383	ELEC-9.4.14	CATEGORY- II	Makes : Safex / Kenex / Bharat / Reliance/NewTech/Kartar
384	ELEC-9.4.15	……	Makes: Cease Fire or its equivalent make Model-1ES01
			AEROSOL GENERATION SYSTEM **(An alternative to water based sprinkler system)**
385	ELEC-9.4.19	……	Makes: SEAARA/AGS/SALAMANDRA
386	ELEC-9.4.20	……	Makes: SEAARA/AGS/SALAMANDRA
387	ELEC-9.4.21	……	Makes: SEAARA/AGS/SALAMANDRA
388	ELEC-9.4.22	……	Makes: SEAARA/AGS/SALAMANDRA
389	ELEC-9.4.23	……	Makes: SEAARA/AGS/SALAMANDRA
390	ELEC-9.4.24	……	Makes: SEAARA/AGS/SALAMANDRA
391	ELEC-9.4.26	……	Makes: SEAARA/AGS/SALAMANDRA
392	ELEC-9.4.27	……	Makes: SEAARA/AGS/SALAMANDRA
	9.5		**FIRE HYDRANT AND SPRINKLER SYSTEM**
			ELECTRIC DRIVEN MAIN FIRE PUMPS(SPLIT CASE)
393	ELEC-9.5.1	……	Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar
394	ELEC-9.5.2	……	Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar
395	ELEC-9.5.3	……	Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar
396	ELEC-9.5.4	……	Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar
397	ELEC-9.5.5	……	Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar
			DIESEL ENGINE DRIVEN FIRE PUMPS
398	ELEC-9.5.6	……	Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&Platt
399	ELEC-9.5.7	……	Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&Platt
400	ELEC-9.5.8	……	Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&Platt
401	ELEC-9.5.9	……	Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&Platt
402	ELEC-9.5.10	……	Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&Platt
			ELECTRIC DRIVEN MAIN FIRE PUMPS(END SUCTION)

403	ELEC-9.5.11	……	Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar
404	ELEC 9.5.12	……	Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar
405	ELEC 9.5.13	……	Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar
			DIESEL ENGINE DRIVEN MAIN FIRE PUMPS(END SUCTION)
406	ELEC-9.5.14	……	Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&Platt
407	ELEC-9.5.15	……	Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&Platt
408	ELEC-9.5.16	……	Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&Platt
			JOCKEY PUMPS
409	ELEC-9.5.17	……	Makes of Pumps : Kirloskar / Mather&Platt. Makes of Motors : Siemens/ ABB/ Kirloskar
410	ELEC-9.5.18	……	Makes of Pumps : Kirloskar / Mather&Platt. Makes of Motors : Siemens/ ABB/ Kirloskar
411	ELEC-9.5.19	……	Makes of Pumps : Kirloskar / Mather&Platt. Makes of Motors : Siemens/ ABB/ Kirloskar
			BOOSTER PUMPS
412	ELEC-9.5.20	……	Makes of Pumps : Kirloskar / Mather&Platt. Makes of Motors : Siemens/ ABB/ Kirloskar
413	ELEC-9.5.21	……	Makes : Kirloskar
414	ELEC-9.5.22	……	Makes : Kirloskar
415	ELEC-9.5.23	……	Makes : Kirloskar
			CONTROL PANELS
416	ELEC-9.5.24	……	Makes: L&T- D shine / Schneider-NS NSX/Legrand -DP X3/ Siemens-3VL / Hager-h3/C&S -Winbreak2Makes of Meters : Schneider (Conzerve) / L&T / Elmeasure / Siemens
417	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
418	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
419	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
420	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
421	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
422	ELEC-9.5.30	……	Makes: Jindal / Hissar / Tata pipes/Prakash Surya
423	ELEC-9.5.31	……	Makes: Newage/ Winco/ Padmini / Safex/Minimax/ Newtech/Honeywell/Kartar
424	ELEC-9.5.32	……	Makes: Audco / Kirloskar / BDK / H-Shankar / Leader/ Zolotto / SANT/NEU-G/Honeywell//Kartar
425	ELEC-9.5.33	……	Makes: BDK / NEU-G / Leader/ Zolotto / SANT/Honeywell//Kartar
426	ELEC-9.5.34	……	Makes: Audco / Kirloskar / BDK / H-Shankar / Leader/ Zolotto /SANT/NEU-G/Honeywell//Kartar
427	ELEC-9.5.35	……	Make: NEU-G/Zolotto/Padmini/SANT/Honeywell/Kartar
428	ELEC-9.5.36	……	Makes: Newage/ Winco/ Padmini / Safex /

			Minimax/NewTech/Honeywell/Kartar
429	ELEC-9.5.37	……	Makes: Newage/ Winco/ Padmini / Safex / Minimax/NewTech/Honeywell/Kartar
430	ELEC-9.5.38	……	Makes: Leader / Zolotto/SANT/Honeywell/Kartar
431	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.
432	ELEC-9.5.40	……	makes:Minimax/Safex/Newage/Winco /Padmini/NewTech/Kartar
433	ELEC-9.5.41 a-b	……	Makes: Newage/ Winco/ Padmini / Safex / Minimax/NewTech/Kartar.
434	ELEC-9.5.42	……	. Makes: Newage/ Winco/ Padmini / Safex / Minimax/NewTech/Honeywell/Kartar
435	ELEC-9.5.43	……	Makes: Newage/ Winco/ Padmini / Safex / Minimax/NewTech/Honeywell/Kartar
436	ELEC-9.5.45	……	Makes: HD / TYCO / VIKING / NEWAGE/ SHARP / SAFEX/Kartar
437	ELEC-9.5.46	……	Makes: HD / TYCO / VIKING / NEWAGE/ SHARP / SAFEX/Kartar
438	ELEC-9.5.47	……	Makes : Danfoss / Indfoss /Systemsensor/Honeywell
439	ELEC-9.5.48	……	Makes : System Sensor / Switzer/Honeywell
440	ELEC-9.5.49	……	Makes : System Sensor / Switzer/Honeywell
441	ELEC-9.5.50	……	MAKES: HGURU / FIEBIG
442	ELEC-9.5.51	……	Makes : Zoloto / Leader / SANT/NEU- G/Kartar
443	ELEC-9.5.52	……	Makes : Zoloto / Leader / SANT/NEU- G/Kartar
444	ELEC-9.5.53	……	Makes : Zoloto / Leader / SANT/Kartar
445	ELEC-9.5.54	……	Makes : Tyko/Newage/HD/Kartar
446	ELEC-9.5.55	……	Makes : HD / TYCO / NEWAGE
447	ELEC-9.5.56	……	Makes:Normex /SANT/Kartar
448	ELEC-9.5.58	……	. Make:IWL(PIPE KOT) or its equivalent
449	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) AmmeterMake: 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
450	ELEC-9.5.61	……	Makes: Newage/ Winco/ Padmini / Safex / Minimax/NewTech/Honeywell/ Kartar.
451	ELEC-9.5.62	……	Makes: HD / TYCO / VIKING / NEWAGE/ SHARP / SAFEX/ KARTAR

452	ELEC-9.5.63	……	Makes: Audco / Kirloskar / BDK / H-Shankar / Leader/ Zolotto /SANT/NEUG/Honeywell/ Kartar
453	ELEC-9.5.64 a to e	……	Makes: Audco / Kirloskar / BDK / H-Shankar / Leader/ Zolotto / SANT/Honeywell/ Kartar
454	ELEC-9.5.65	……	Makes: Audco / Kirloskar / BDK / H-Shankar / Leader/ Zolotto / SANT/Honeywell/ Kartar
455	ELEC-9.5.66	……	Makes: HD / TYCO / VIKING / NEWAGE/ SHARP / SAFEX
456	ELEC-9.5.67	……	. Makes: HD / TYCO / VIKING / NEWAGE/ SHARP / SAFEX
	10.1		**GENERATORS SPECIFICATION**
457	ELEC-10.1.1 a - e	……	Engine Makes:Cummins/Koel Green/Sterling/ mahindra/Elmot Power Gen/Ashok Leyland/Greaves Alternator Make:Stamford/ Kirloskar/ CromptonGreaves/Leroysomer
458	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
459	ELEC-10.1.1 k- p	……	Engine Makes:Caterpillar/Perkins/Cummins/Greaves Alternator Make:Leroy somer/Crompton Greaves/Stamford
	11.1		**INVERTERS and ONLINE UPS SYSTEMS**
460	ELEC-11.1.1	……	Makes: Exide / Amar Raja / Samhitha/ Microtek
461	ELEC-11.1.2	……	Makes: Numeric/APC/Fuji Electric Consul Neowatt/Sakshham /Emerson
462	ELEC-11.1.3	……	Makes: Numeric/APC/Fuji Electric Consul Neowatt/Sakshham /Emerson
463	ELEC-11.1.4	……	Makes: Mitsubishi/ Socomec /Schiender(APC)/ Legrand/Fuji Electric Consul Neowatt
464	ELEC-11.1.9	……	Makes: Quanta / Racket / Exide.
465	ELEC-11.1.10	……	Makes: Quanta / Racket / Exide.
466	ELEC-11.1.11	……	Makes: Quanta / Racket / Exide.
467	ELEC-11.1.12	……	Makes: Quanta / Racket / Exide.
468	ELEC-11.1.13	……	Makes: Quanta / Racket / Exide.
469	ELEC-11.1.14	……	Makes: Quanta / Racket / Exide.
470	ELEC-11.1.15	……	Makes: Quanta / Racket / Exide.
471	ELEC-11.1.17	……	Makes: Amar Raja (Power Zone) or Equivalent model of Exide / Panasonic / Gotech.
	13.1		**LIFTS (New Installation)**
472	ELEC-13.1.1	……	makes:Kone/Otis/Schindler/Mitsubishi/Johnson
473	ELEC-13.1.2	……	makes:Kone/Otis/Schindler/Mitsubishi/Johnson
474	ELEC-13.1.3	……	makes:Kone/Otis/Schindler/Mitsubishi /Johnson
475	ELEC-13.1.4	……	makes:Kone/Otis/Schindler/Mitsubishi /Johnson
476	ELEC-13.1.5	……	makes:Kone/Otis/Schindler/Mitsubishi /Johnson
477	ELEC-13.1.6	……	makes:Kone/Otis/Schindler/Mitsubishi /Johnson
478	ELEC-13.1.7	……	makes:Kone/Otis/Schindler/Mitsubishi /Johnson
479	ELEC-13.1.8	……	makes:Kone/Otis/Schindler/Mitsubishi /Johnson
480	ELEC-13.1.9	……	makes:Kone/Otis/Schindler/Mitsubishi /Johnson

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 – Meterroomsshall not be located below staircaseswhere aboverequirements could notbecomplied 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 truncking / 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. C overs of manholes, chambers shall bear sufficient strength to with stand 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 as 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 suite requirements of IS 1255**.**

1.2.5 Wall thickness

Walls shall be of sufficient thickness to accommodate concealed boxes /switchboards / distribution boxes. So thatinstallation 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 supportsof 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 occurin 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 berequired whichshall 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 Contractorwho 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 hiddenwork shall be checked for conformity with thestandards 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 materialshall 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 requirementsfrom 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 transformeris sealed (without breather). For Transformer installed in separate roomdetached 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 arrangementfor 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 powercircuit of powerpoint 16A MCB shall be used. For lighting circuits MCBs of B series may beused. For independent circuit of plug points C series MCB shall be provided. Circuits providingsupply for appliances like Air-Conditioner / water-pump shall be provided MCBs of 'C 'series. AC above1.5 TR may beprovided 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 phaseDBs per phase protection maybe provided. For installation having load 10kw and above, it is also recommended to provide RCD of300mA 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 andElectric Supply) Regulations 2010 made under section 53 read with section 177 of Electrical Act2003 Regulation29 (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 Regulation12 (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 Regulation12 (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 Regulation12 (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 Regulation12 (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 3phases Provisions for supply and use of electricityin multistoried building more than15 meters in height: Regulation36 (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 than1.70meters 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 Connectedload 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 out lets.

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-DMGreceived by the Government on dt. 11.12.2019.

***

O R D E R:

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 and 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 (RupeesSix) 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	Morrum/ 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, Morrum, Ordinary Earth, Shingle, Limestone Slabs used for flooring purpose Limekankar, ChalcedonyPebbles 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)