

GOVERNMENT OF ANDHRA PRADESH
Office of the Chief Engineer, RWS&S Dept, Hyderabad.
Cir. Memo No. AEE1/DEE (Designs)/Type designs -OHSRs /2011 Dated .03.2011

Sub: RWS &S –Revised Type Drawings - for Ohsrs with normal staging around 13mtrs-column-brace structure-with ring raft foundations for S.B.C 7.5T/m², 10 T/m² and 15 T/m² - single column (shaft) for small capacities-with M30 grade concrete -for basic wind speed 44 m/s and 50 m/s –request- reg.


Ref:

1. Lr.Rc.No. T4/OHSR'S/2010 DT: 18.12.2010 of SE, RWS&S, Vijayawada.
2. Cr.Memo No.AEE1/RWS (P&D) Revised drawings OHSR/97 Dt.10.4.97 of CE (Projects) PR.
3. Type designs for M30 grade concrete for tender schedule purpose.




The approved revised drawings of Ohsrs are communicated along with the assumptions slip for various capacities viz..20KL, 30KL, 40KL, 60KL,90KL, 120KL,150KL,200KL, and 250KL with normal staging around 13 mtrs for the S.B.C of 7.5 T/m² to 15 T/m² and the single column (shaft) Ohsrs for small capacities with small staging using IS 456(2000) ,IS875(1987), and IS 3370(2009).

The above drawings ^{are herewith} ~~may be~~ ^{for circulation} communicated to all the field officers under their jurisdiction. The receipt of this memo along with the enclosures ^{has to be} acknowledged in the first instance.

- Enclosures: ^{OHSRs}
1. Revised Drawings of ~~Ohsrs~~
 2. Assumption slip.


Chief Engineer
RWSS-I, Hyderabad.

To
All The Superintending Engineer, RWSS.

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ASSUMPTIONS FOR DESIGN OF OHSR

1. Ring raft foundation has been proposed for the moderate staging around 13m.
2. The structure been designed based on IS 456-2000 and IS 3370(2009)
3. The entire structure designed for "severe" environmental classification category.
4. The S.B.C of soils has been assumed from 7.5 T/m^2 , 10 T/m^2 , and 15 T/m^2 . For lesser S.B.C soils ,the soils have to be stabilized to 7.5 T/m^2
5. Basic wind speed assumed based on IS 875(1987)
 - (a) 50 m/s wind speed for coastal area, which are having not greater than 60 kms radial distance from sea coast.
 - (b) 44 m/s wind speed for the remaining areas.
6. The seismic load factor for II nd Zone area has been considered for design of braces and columns Special design is required for other than II nd Zone areas.
7. M30 concrete and Fe 415 steel have been considered.
8. Water Cement Ratio has to be maintained by 0.45.
9. The super plasticizers for workability of concrete and CONCARE liquids for rust proof shall be used for all members of structure.
10. 50 mm cover for the reinforcement for foundation slabs and 45 mm for all other members.
11. The reinforcement detailing SP34 has to be followed.
12. The single column (shaft) ohsrs may be adopted whenever feasible as per the site conditions.

"Approved"
CERWSS Hqd.

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