



MADHYA PRADESH PASCHIM KSHETRA VIDYUT VITARAN CO LTD. INDORE
GPH Compound, Pologround, Indore-452003
Tel. no. 0731-2426130, Fax no. 0731-2426216



No.MD/WZ/08-03/ 4200

Indore Dated

26.02.2018

To,
The Executive Director (IR)
The Chief Engineer (UR)
M.P. Paschim Kshetra Vidyut Vitaran Co. Ltd.
Indore /Ujjain

Sub: - Uniform Schedule of Rates (SoR) for the year 2017-18.

Ref: - 1.This Office letter no. MD/WZ/08-03/19586 dt 10.11.16
2. This Office letter no. MD/WZ/08-03/16493 dt 17.08.17
3. This Office letter no. MD/WZ/08-03/22232 dt 20.11.17

The Managing Director MP Power Management Co. Ltd Jabalpur has approved Schedule of Rates for FY' 2017-18. This approved SoR 2017-18 shall be applicable from date of issue.

The labour rates for departmental works are given along with SoR 2017-18. Percentage of GST/Taxes may be implement as per applicable GST/Taxes at the time of preparation of estimate for execution of Work.

The Soft copy of SoR 2017-18 is being mailed to all concern. The printed copy of SoR 2017-18 will be made available shortly.

Director (Technical)
MPPKVVCL, Indore

Copy to:-

01. The Managing Director, M.P. Power Management Co. Ltd, Jabalpur.
02. The Managing Director, M.P. Poorva Kshetra Vidyut Vitaran Co. Lt. Jabalpur.
03. The Managing Director, M.P. Madhya Kshetra Vidyut Vitaran Co. Lt. Bhopal.
04. The Director (Engineering), MPERC, Metroplaza, Bitten Market, Bhopal.
05. The Officer on Special Duty,, GoMP, Energy Department, Vallabh Bhawan, Bhopal.
06. The Director (Commercial) MPPKVVCL Indore
07. The Director (Technical) MPMKVVCL Bhopal and MPPoKVVCL Jabalpur
08. The Executive Director(Operation) & CVO(Vigilance) MPPKVVCL Indore
09. The Project Director (FS/RGGVY/IPDS/DDUGJY/RAPDRP) MPPKVVCL Indore
10. The Chief General Manager (W&P) M.P. Madhya Kshetra Vidyut Vitaran Co. Lt. Bhopal
11. The Chief General Manager (Works) M.P. Poorve. Kshetra Vidyut Vitaran Co. Lt. Jabalpur.
12. The Addl. Chief Engineer (Purchase/MT), MPPKVVCL, Indore
13. The Chief Finance Officer, MPPKVVCL, Indore
14. The Superintending Engineer (City/O&M/Stores/STC/Civil), MPPKVVCL, Indore/Khandwa/Burhanpur/Khargone/Barwani/Dhar/Jhabua/Ujjain/Dewas/Shajapur/Agar/Ratlam/Mandsaur/Neemuch.
15. **The Superintending Engineer (IT) Corporate Office Indore with a request to upload the SoR 17-18 on Company web Site/ERP.**
16. The Superintending Engineer (SCADA/RAPDRP-A/MTI/II) Corporate Office Indore
17. The Company Secretary, Corporate Office, MPPKVVCL, Indore
18. All Executive Engineer (City/O&M/STC/Store), MPPKVVCL,
19. The Sr. Accounts Officer, MPPKVVCL,

Addl. Chief Engineer (Works)
O/o Managing Director (WZ)
MPPKVVCo. Ltd, Indore



GUIDE LINE FOR SOR 2017-18.

Following guidelines shall be mandatorily considered while framing the estimate for various works and should also be ensured during execution of the works:-


1. These schedules are guide lines for framing estimates. Minor addition/deletion is permissible as per actual site condition and technical feasibility.
2. As per Section 55 of Electricity Act 2003, proper accounting and audit in distribution is to be ensured by providing meters and metering equipment at all the transaction points of supply.
3. For new 33/11 KV S/S, estimation shall be done as per requirement:-
Schedule B-1 For Non SCADA Compatible / Rural area
Schedule B-2,3,4 For SCADA Compatible / Urban area
4. Looking to the condition that bore earthing is the best & long reliable source of earthing, but difficult in Additional Sub Station due to non-approaches for T/W boring machine, hence earthing in 33/11 KV s/s shall be done as per G-2 & 3 schedules for Hard rock, Murram & Black Cotton soil.
5. The provision of SCADA in 33/11 KV S/s (New/Addl.) 33 KV & 11 KV line have been included in SOR which should be utilized as per requirement/provision.
6. PTR plinth is a life time structure, and cannot be upgraded during Augmentation of PTR, hence combination of RCC & PCC PTR plinth with capacity of load bearing up to 10 MVA shall be included in estimation. To prepare compact base in Black cotton soil, 4.8 cmtKopra filling shall be taken
7. In order to avoid grass in substation yard, technology being used by MPPTCL is adopted for 33/11kV Substation.
8. Following should be ensured for 33/11 KV Sub-station:-
-Provision should be made for expandable to 2x5 MVA transformers capacity in 33/11 KV S/s proposed in urban area.
-Adequate provision towards the acquisition of Nuzul land for the construction of 33/11 KV Sub-station must be included in the estimate.
-The earthing at 33/11 KV S/S shall be connected to mesh as per IS 3043.

9. All the civil works necessary for construction of 33/11 S/s has to be executed by civil wing or contract for civil works may be awarded by concerning O&M / STC wing under supervision of Civil wing.
10. Provision should be made for radiating at least two, three, four & five 11 KV feeders from 3.15 MVA, 5 MVA, 8 MVA & 10 MVA power transformer respectively from 33/11 KV S/s.
11. Provision for separate VCB for each power transformer & feeder (33 KV and 11 KV) should be made for protection of equipments and control of power flow. Similarly, provision should also be made for proper metering.
12. Installation of additional transformer instead of augmentation to higher capacity, shall be preferred, as two transformers of same capacity are better for management of load in case of failure of power transformer.
13. In view of day by day increasing ROW problem, All 33 KV lines in commissioner & District HQ shall mandatorily be laid on 15 m. H-Beam & 11 KV lines on 13 m. H-Beam.
14. In Nagar Nigam/Nagar Palika/Nagar Panchayat area, new 33 KV & 11 KV line emanating from 132 KV EHV S/S & 33/11 KV S/S respectively, should be laid on double circuit single stringing (DCSS) such that it can be converted to double circuit double stringing (DCDS) as per load requirement.
15. RCC pre cast block/stone block of size 450x75 mm taken in place of base padding concerning 0.05 cmt.
16. Considering clearance and strength of poles, 9 mtr. 200 kg, 11 mtr. 365 kg PCC pole shall be preferred in place of 8 mtr. 140 kg and 9.1 mtr. 280 kg PCC pole.
17. Municipality Charges for reinstatement of Road or Way leave charges payable to Railway shall be reimbursable to contractor on production of original receipt of concerned department only.
18. The estimate for shifting of HT/LT lines along / across state Highways should be framed considering circular issued by this office vide letter no. MD/WZ/08-03/21278 dated 09-12-14 and subsequent corrigendum issued vide letter no. MD/WZ/08-03/125 dated 02-01-15.
19. Looking to the load density, the sizes of conductor have been increased. Therefore the maximum span in rural area should be 100 meters in 33 KV lines and 85 meters in 11 KV lines and 50 meters in LT lines.

20. Plastering with cement mortar & Masonry work has been added on cmt. basis for renovation works.
21. Various new schedules are added for installation of new 33/11KV sub-station with AIS/GIS switchgears, Monopole for 33 KV line, various meters. They shall be used as per requirement.
22. Various provisions are added in Labour schedules. They shall be used as per requirement.
23. In order to maintain quality of DTR supplied by contractors, it is decided that mandatorily 1 DTR against lot of 10 no. DTR or part thereof (as per provision of sanction estimate) shall be randomly selected and sent to NABL lab for testing. Testing fee shall be borne by discom. This condition applies for cases of 4 or above DTR supplied by contractors.(Per estimate)
24. No connection should be released without installation of meter. The meter must be installed on the outside of front wall of the building properly fixed at a height between 5' to 6' for proper approach/ meter reading.
25. For adequate clearances at uneven surfaces/ lines/road crossings,additional schedule shall be included in the estimation.
26. Two distribution transformers shall not be kept on same DP structure.
27. The storm guys are to be provided with poles and structures at wind prone area to all HT lines and distribution mains to have proper protection and stability to poles and structures from storms and cyclones.
28. Proper carpet guarding and horizontal guarding should be made at all the crossing of LT lines, telephone lines, River, Road, and heavy populated areas to avoid accidents.
29. Six pipe DTR earthing shall be done as per schedule G-1, in Urban area & Three pipe DTR earthing shall be done as per REC drawing in Rural area.
30. The RS Joist 175X85 mm will only be used at limited locations in LT works. All LT Lines should be laid by using insulated cables or AB Cable Only.
31. The barbed wires on the stay set should be provided to HT and LT lines to avoid interference and fouling by animals. The stay insulators should invariably be provided to PCC poles and other such type of supports.
32. Labour charges against dismantling should be taken as 50% of the charges incurred in the erection work.

33. At the bi-metallic junction, bi-metallic clamps should be used to avoid pitting and burnings at contact surfaces. For having tight connections, proper length of binding is also necessary to avoid loose connections.
34. The circular issued by the MPERC vide their Notification dated-2nd September'09 notified in Gazette dated 7.9.2009 should be kept in view in estimation of load and directions given there-in, while preparing the estimate of electrification of Colonies, the documents & papers of colony for their legality should be checked.
35. The old materials removed or scrap received from dismantling of the old line should be returned to Area Stores strictly observing store accounting procedure.
36. Detail drawing of 33/11 KV S/s control room in Urban/Rural area, earthing of 33/11 KV S/s & DTR, various fabricated materials, DTR fencing etc. as per list are attached. It shall be mandatorily referred for execution of works.
37. In 5% supervision detail scheme meter Panel provision should be mandatory added in the for it quality watch and to avoid change to pilferage energy.
38. Labour charge for working estimate may be calculated on the basis of labour rates given in the SoR.
39. This SOR will be effective from date of issue.

Note: - For preparing project on turnkey basis, the separate schedule for each activity which is needed to be executed on turnkey basis, should be prepared with the item rate from stock item rate schedule and labour rate from labour schedules. Such prepared schedule should be named as separate annexure instead of SoR schedule no.


Director (Technical)
MPPKVCL, Indore