

STANDARD RATES FOR BILLING OF CIVIL WORKS

Base SOR:- MPPWD SOR, for Building work and Electrical work w.e.f. 01.12.2020 with its amendment up to amendment No.2 and applicable NSOR items.

Rates as per MPPWD SOR for various civil Structures i.e. Structure foundations, Control Room Buildings, Cable trenches, Fencing work etc. as listed below for 400 KV/220 KV/132 KV substations of MPPTCL against the name of structure in column No. 7 are as per Standard Measurement Book (volume-I & volume-II) and in accordance with the drawings mentioned in the SMB's. The rates mentioned in column No. 7 are excluding cost of excavation, filling, back filling and as mentioned in remark column, which shall be payable separately as per actual work done on the basis of MPPWD SOR w.e.f. 01.12.2020 and applicable NSOR items.

S.No.	SOR No.	Service Master No	Particulars of Civil Structure	Reference of SMB Pg No.	Unit	Rate as per MP PWD SOR w.e.f. 01.12.2020 for Buildings work & Electrical works and applicable NSOR items	Reamrks
1'	2'	3'	4'	5'	6'	7'	8'

Volume-I

1			33 KV Structure Foundations	Vol-I/P-1 to 18			
(i)	123 NSOR	4000225	33 KV Gantry (1 GO3)	Vol-I / P-1	1 No.	36039.80	
(ii)	124 NSOR	4000226	33 KV Main Bus (1 BO4)	Vol-I / P-3	1 No.	73003.58	
(iii)	125 NSOR	4000227	33 KV Auxilary Bus (1BO5)	Vol-I/P-5	1 No.	49126.20	
(iv)	126 NSOR	4000228	33 KV Isolator (1DO3)	Vol-I/P-7	1 No.	10016.73	
(v)	127 NSOR	4000229	33 KV CT/PT/LA/PI	Vol-I/P-9	1 No.	3786.50	
(vi)	128 NSOR	4000230	33 KV CB	Vol-I/P-11	1 No.	12693.05	
(vii)	129 NSOR	4000231	33 KV, 36 KV/12MVAR Capacitor Bank	Vol-I/P-13	1 No.	58293.34	
(viii)	130 NSOR	4000232	33 KV NCT	Vol-I/P-15	1 No.	3771.79	
(ix)	131 NSOR	4000233	33 KV Special PI	Vol-I/P-17	1 No.	10173.92	
2			132 KV Structure Foundations	Vol-I/P-19 to 38			
(i)	132 NSOR	4000234	132 KV Main Bus (3BO4)	Vol-I/P-19	1 No.	37474.44	
(ii)	133 NSOR	4000235	132 KV Gantry (3GO2)	Vol-I/P-21	1 No.	73659.53	
(iii)	134 NSOR	4000236	132 KV Auxilary Bus (3BO3)	Vol-I/P-23	1 No.	47746.56	
(iv)	135 NSOR	4000237	132 KV PT (3VO4)	Vol-I/P-25	1 No.	8363.69	
(v)	136 NSOR	4000238	132 KV C.C (3KO2)	Vol-I/P-27	1 No.	8063.20	
(vi)	137 NSOR	4000239	132 KV Isolator (3DO2) & (3DO5)	Vol-I/P-29	1 No.	15592.51	
(vii)	138 NSOR	4000240	132 KV PI (3PO2) & 132 KV CT (3 CO5) (For non BC soil)	Vol-I/P-31	1 No.	3140.53	

S.No.	SOR No.	Service Master No	Particulars of Civil Structure	Reference of SMB Pg No.	Unit	Rate as per MP PWD SOR w.e.f. 01.12.2020 for Buildings work & Electrical works and applicable NSOR items	Reamrks
1'	2'	3'	4'	5'	6'	7'	8'
(viii)	139 NSOR	4000241	132 KV PI (3 PO2) & 132 KV CT (3 CO5) (for BC Soil) 1 No Foundation only	Vol-I/P-33	1 No.	3881.04	
(ix)	140 NSOR	4000242	132 KV LA (3 LO4) 1 No Foundation only	Vol-I/P-35	1 No.	3863.49	
(x)	141 NSOR	4000243	132 KV CB (Circuit Breaker)	Vol-I/P-37	1 No.	23699.77	
3			220 KV Structure Foundation	Vol-I/P-39 to 58			
(i)	142 NSOR	4000244	220 KV Auxilary Bus (ABA)	Vol-I/P-39	1 No.	46213.66	
(ii)	143 NSOR	4000245	220 KV Gantry (AGT)	Vol-I/P-41	1 No.	58532.80	
(iii)	144 NSOR	4000246	220 KV Main Bus (ABM)	Vol-I/P-43	1 No.	38348.09	
(iv)	145 NSOR	4000247	220 KV Gantry (AAGT)	Vol-I/P-45	1 No.	62942.31	
(v)	146 NSOR	4000248	220 KV Post Insulator (API)	Vol-I/P-47	1 No.	11811.09	
(vi)	147 NSOR	4000249	220 KV Isolator	Vol-I/P-49	1 No.	36556.93	
(vii)	148 NSOR	4000250	220 KV Lighting Arrestor (ALA)	Vol-I/P-51	1 No.	4588.47	
(viii)	149 NSOR	4000251	220 KV Coupling Capacitor (ACC)	Vol-I/P-53	1 No.	10348.08	
(ix)	150 NSOR	4000252	220 KV ACT/APT/CVT	Vol-I/P-55	1 No.	9669.35	
(x)	151 NSOR	4000253	220 KV Circuit Breaker (CB)	Vol-I/P-57	1 No.	38144.30	
4			400 KV Structure Foundation	Vol-I/P-59 to 87	1 No.		
(i)	152 NSOR	4000254	400 KV F.B.C -1	Vol-I/P-59	1 No.	261031.55	
(ii)	153 NSOR	4000255	400 KV F.B.C -2	Vol-I/P-61	1 No.	160460.08	
(iii)	154 NSOR	4000256	400 KV F.T.C	Vol-I/P-63	1 No.	128472.86	
(iv)	155 NSOR	4000257	400 KV F.G.C-1	Vol-I/P-65	1 No.	539943.41	
(v)	156 NSOR	4000258	400 KV F.G.C.-2	Vol-I/P-67	1 No.	550367.78	
(vi)	157 NSOR	4000259	400 KV CVT	Vol-I/P-70	1 No.	26391.83	
(vii)	158 NSOR	4000260	400 KV Centre Break Isolator	Vol-I/P-72	1 No.	190109.37	
(viii)	159 NSOR	4000261	400 KV CT	Vol-I/P-74	1 No.	20166.23	
(ix)	160 NSOR	4000262	400 KV CB CGL Make (For Black Cotton Soil)	Vol-I/P-76	1 No.	124765.87	
(x)	161 NSOR	4000263	400 KV CB CGL Make (For Other than Black Cotton Soil)	Vol-I/P-78	1 No.	119871.06	
(xi)	162 NSOR	4000264	400 KV LA (OBLUM and SHREEM make)	Vol-I/P-80	1 No.	26657.70	
(xii)	163 NSOR	4000265	400 KV PI (JAISHREE)	Vol-I/P-82	1 No.	14408.13	
(xiii)	164 NSOR	4000266	400 KV PI (JAISHREE and SHREEM make)	Vol-I/P-84	1 No.	14372.42	
(xiv)	165 NSOR	4000267	400 KV Pentograph Isolator	Vol-I/P-86	1No.	48315.70	

S.No.	SOR No.	Service Master No	Particulars of Civil Structure	Reference of SMB Pg No.	Unit	Rate as per MP PWD SOR w.e.f. 01.12.2020 for Buildings work & Electrical works and applicable NSOR items	Reamrks
1'	2'	3'	4'	5'	6'	7'	8'
5			132 KV Control Room Building, Type -V(A)	Vol-I/P-88 to 147			
(i)	166 NSOR	4000268	Stage-I- Complete structural work upto Plinth Beam Level	Vol-I/P-88 to 93	1 job	756722.45	Also excluding external and internal sanitary and water supply pipe line work
(ii)	167 NSOR	4000269	Stage-II- Complete structural work above Plinth Beam Level to slab cast level	Vol-I/P-101 to 110	1 job	1688248.79	
(iii)	168 NSOR	4000270	Stage-III- Complete plaster (external and internal), Sanitary fittings (excluding Sewage system), water supply fitting only, Rain water pipe, Grills, Shutters, flooring, doors and windows work etc. all complete.	Vol-I/P-118 to 134	1 job	1070295.31	
(iv)	169 NSOR	4000271	Stage-IV- Complete Electrification works i/c all Electrical Fixtures.	Vol-I/P-135 to 139	1 job	128040.00	
(v)	170 NSOR	4000272	Stage-V- Complete Putty and Painting	Vol-I/P-140 to 147	1 job	226895.80	
			Grand Total of 132 KV Control Room Building, Type -V(A)			3870202.35	
6			220 KV Control Room Building, Type -II	Vol-I/P-148 to 230			
(i)	171 NSOR	4000273	Stage-I- Complete structural work upto Plinth Beam Level	Vol-I/P-148 to 153	1 job	828409.25	Also excluding external and internal sanitary and water supply pipe line work
(ii)	172 NSOR	4000274	Stage-II- Complete structural work above Plinth Beam Level to slab cast level	Vol-I/P-166 to 178	1 job	2334962.98	
(iii)	173 NSOR	4000275	Stage-III- Complete plaster (external and internal), Sanitary fittings (excluding Sewage system), water supply fitting only, Rain water pipe, Grills, Shutters, flooring, doors and windows work etc. all complete.	Vol-I/P-191 to 212	1 job	1575505.33	
(iv)	174 NSOR	4000276	Stage-IV- Complete Electrification works i/c all Electrical Fixtures.	Vol-I/P-213 to 217	1 job	178438.00	
(v)	175 NSOR	4000277	Stage-V- Complete Putty and Painting	Vol-I/P-218 to 230	1 job	314911.45	

S.No.	SOR No.	Service Master No	Particulars of Civil Structure	Reference of SMB Pg No.	Unit	Rate as per MP PWD SOR w.e.f. 01.12.2020 for Buildings work & Electrical works and applicable NSOR items	Reamrks
1'	2'	3'	4'	5'	6'	7'	8'
Grand Total of 220 KV Control Room Building, Type -II						5232227.01	
7			400 KV Control Room Building, S-Type	Vol-I/P-231 to 355			
(i)	176 NSOR	4000278	Stage-I-Complete structural work upto Plinth Beam Level	Vol-I/P-231 to 236	1 job	1173373.86	Also excluding external and internal sanitary and water supply pipe line work
(ii)	177 NSOR	4000279	Stage -II (Part-A)- Complete structural and masonry work above Plinth Beam Level to slab cast level <u>(Ground Floor)</u>.	Vol-I/P-255 to 269	1 job	3313130.91	
(iii)	178 NSOR	4000280	Stage -II (Part-B) Complete structural and masonry work above ground floor slab to first floor slab level.	Vol-I/P-287 to 294	1 job	3352504.49	
(iv)	179 NSOR	4000281	Stage-III-Complete plaster (external and internal), Sanitary fittings (excluding Sewage system), water supply fitting only, Rain water pipe, Grills, Shutters, flooring, doors and windows work etc. all complete.	Vol-I/P-306 to 331	1 job	4058821.69	
(iv)	180 NSOR	4000282	Stage-IV-Complete Electrification works i/c all Electrical Fixtures.	Vol-I/P-333 to 337	1 job	491662.00	
(v)	181 NSOR	4000283	Stage-V-Complete Putty and Painting	Vol-I/P-338 to 355	1 job	835932.84	
Grand Total of 400 KV Control Room Building S-Type						13225425.79	
8			Transformer Foundation	Vol-I/P-356 to 374			
(i)	182 NSOR	4000284	33 KV Station Transformer	Vol-I/P-356	1No	12227.39	Except ancillary foundations
(ii)	183 NSOR	4000285	132/33 KV 40/50 MVA X-Mer Foundation excluding Ancillary Foundation but including Jacking Pad	Vol-I/P-358	1No	125127.87	
(iii)	184 NSOR	4000286	132/33 KV 40/63MVA X-Mer foundation excluding Ancillary foundation but including Jacking Pad	Vol-I/P-361 to 362	1No	104761.83	

S.No.	SOR No.	Service Master No	Particulars of Civil Structure	Reference of SMB Pg No.	Unit	Rate as per MP PWD SOR w.e.f. 01.12.2020 for Buildings work & Electrical works and applicable NSOR items	Reamrks
1'	2'	3'	4'	5'	6'	7'	8'
(iv)	185 NSOR	4000287	220/33 KV 40/50 MVA X-Mer foundation excluding ancillary foundatio but including Jacking Pad.	Vol-I/P-364	1No	123846.00	Except ancillary foundations
(iv)	186 NSOR	4000288	132/33 KV 50/63 MVA X-Mer foundation excluding ancillary foundatio but including Jacking Pad.	Vol-I/P-367 to 368	1No	126895.54	
(v)	187 NSOR	4000289	220/132/33 KV, 128/168 MVA X-Mer foundation excluding ancillary foundatio but including Jacking Pad.	Vol-I/P-370 to 371	1No	151107.73	
(vi)	188 NSOR	4000290	315 MVA , 400/220/33 KV Power Transformer (BHEL Make) .	Vol-I/P-373	1No	384491.10	
Volume -II							
1			Cable Trench				
(i)			Brick Masnory Cable trench	Vol-II/P-1 to 17			
	189 NSOR	4000291	A Type	Vol-II/P-1 to 3	M	7497.87	Also excluding Top Slab and corners
	190 NSOR	4000292	B Type	Vol-II/P-4 to 6	M	5219.60	
	191 NSOR	4000293	C Type	Vol-II/P-7 to 9	M	4239.73	
	192 NSOR	4000294	D Type	Vol-II/P-10 to 11	M	2493.21	
	193 NSOR	4000295	E Type	Vol-II/P-12 to 13	M	1778.60	
	194 NSOR	4000296	F Type	Vol-II/P-14 to 15	M	1357.19	
	195 NSOR	4000297	G Type	Vol-II/P-16 to 17	M	2117.30	
(ii)			RCC Cable Trench	Vol-II/P-18 to 40			
	196 NSOR	4000298	A Type	Vol-II/P-18 to 21	M	7484.20	Also excluding Top Slab and corners
	197 NSOR	4000299	B Type	Vol-II/P-22 to 25	M	5674.43	
	198 NSOR	4000300	C Type	Vol-II/P-26 to 28	M	4425.36	
	199 NSOR	4000301	D Type	Vol-II/P-29 to 31	M	3236.07	
	200 NSOR	4000302	E Type	Vol-II/P-32 to 34	M	2329.10	
	201 NSOR	4000303	F Type	Vol-II/P-35 to 37	M	1730.53	
	202 NSOR	4000304	G Type	Vol-II/P-38 to 40	M	2775.17	

S.No.	SOR No.	Service Master No	Particulars of Civil Structure	Reference of SMB Pg No.	Unit	Rate as per MP PWD SOR w.e.f. 01.12.2020 for Buildings work & Electrical works and applicable NSOR items	Reamrks
1'	2'	3'	4'	5'	6'	7'	8'
(iii)			RCC Cable trench at Road Croosing	Vol-II/P-41 to 59			
	203 NSOR	4000305	A Type	Vol-II/P-41 to 44	per No.	115810.62	For constructing Road Crossing of 6.5 M Width Road.
	204 NSOR	4000306	B Type	Vol-II/P-45 to 48	per No.	94245.97	
	205 NSOR	4000307	C Type	Vol-II/P-49 to 52	per No.	75567.75	
	206 NSOR	4000308	D Type	Vol-II/P- 53to 56	per No.	51916.41	
	207 NSOR	4000309	G Type	Vol-II/P- 57 to 59	per No.	48278.23	
2			Road	Vol-II/P-60 to 66			
(i)	208 NSOR	4000310	WBM Road	Vol-II/P-60 to 61	M	1461.60	Good Soil, 4.5 M Width
(ii)	209 NSOR	4000311	PCC Road	Vol-II/P-62 to 63	M	4208.93	Good Soil, 4.5 M Width
(iii)	210 NSOR	4000312	RCC Road	Vol-II/P-64 to 66	M	6756.31	
3			Web Trap	Vol-II/P-67 to 73			
(i)	211 NSOR	4000313	GE Make	Vol-II/P-67 to 69	per No.	38156.95	
(ii)	212 NSOR	4000314	Quality Power Make	Vol-II/P-70 to 71	per No.	37810.89	
(iii)	213 NSOR	4000315	Techno Electric & Eng. Make	Vol-II/P-72to 73	per No.	38156.95	
4			Reactor	Vol-II/P-74 to 84			
(i)	214 NSOR	4000316	CGL Make	Vol-II/P-74 to 76	per No.	209464.86	
(ii)	215 NSOR	4000317	GE Make	Vol-II/P-77 to 78	per No.	306438.06	
(iii)	216 NSOR	4000318	CGPISL Make	Vol-II/P-79 to 81	per No.	266216.94	
(iv)	217 NSOR	4000319	BHEL Make	Vol-II/P-82 to 84	per No.	302301.52	
5			Capacitor Bank	Vol-II/P-85 to 91			
(i)	218 NSOR	4000320	TDK Make	Vol-II/P-85 to 87	per No.	63434.17	
(ii)	219 NSOR	4000321	ABB Make	Vol-II/P-88 to 89	per No.	56463.96	
6	220 NSOR	4000322	Earth Pit	Vol-II/P-90 to 91	per No.	6439.21	
7			FIRE Protection Wall	Vol-II/P-92 to 109			
(i)	221 NSOR	4000323	7 M High	Vol-II/P-92 to 97	M	35047.86	
(ii)	222 NSOR	4000324	8 M High	Vol-II/P-98 to 103	M	40899.29	
(iii)	223 NSOR	4000325	9 M High	Vol-II/P-104 to 110	M	48139.77	
(iv)	224 NSOR	4000326	10 M High	Vol-II/P-110 to 117	M	57517.94	
8	226 NSOR	4000327	Yard Fencing	Vol-II/P-118 to 120	M	2489.96	Except extra work at turnings and steps due to ground conditions.
9			Boundary Wall	Vol-II/P-121 to 138			
(i)	227 NSOR	4000328	2.4 M High	Vol-II/P-121 to 129	M	7974.90	Except extra work at turnings and steps due to ground conditions.
(ii)	228 NSOR	4000329	1.5 M High	Vol-II/P-130 to 138	M	5276.99	

S.No.	SOR No.	Service Master No	Particulars of Civil Structure	Reference of SMB Pg No.	Unit	Rate as per MP PWD SOR w.e.f. 01.12.2020 for Buildings work & Electrical works and applicable NSOR items	Reamrks
1'	2'	3'	4'	5'	6'	7'	8'
10			Four Bay Sheds	Vol-II/P-139 to 197			
A			4 Bay Shed for EHT	Vol-II/P-139 to 178	per No.		
(i)	229 NSOR	4000330	Stage -I Complete structural work up to plinth beam level.	Vol-II/P-139 to 146	per job	337758.75	Also excluding external Sanitary and water supply pipe line works
(ii)	230 NSOR	4000331	Stage -II Complete Structural and Masonry work above plinth level	Vol-II/P-147 to 154	per job	423475.80	
(iii)	231 NSOR	4000332	Stage -III Complete plaster (external and internal), Sanitary fittings (excluding Sewage system), water supply fitting only, Rain water pipe, Grills, Shutters, flooring, doors and windows work etc. all complete.	Vol-II/P-155 to 173	per job	570946.32	
(iv)	232 NSOR	4000333	Stage -IV Steel work in roof truss profile sheet etc. all complete	Vol-II/P-174 to 175	per job	338917.26	
(v)	233 NSOR	4000334	Stage -V Complete Electrification work i/c All Electrical Fixtures	Vol-II/P-176 to 178	per job	72995.50	
Grand Total 4 Bay Shed for EHT						1744093.63	
B			4 Bay Shed for T&C	Vol-II/P-179 to 197			
(i)	234 NSOR	4000335	Stage -I Complete structural work up to plinth beam level.	Vol-II/P-179 to 183	per job	265264.21	Also excluding external Sanitary and water supply pipe line works
(ii)	235 NSOR	4000336	Stage -II Complete Structural and Masonry work above plinth level	Vol-II/P-184 to 186	per job	298997.60	
(iii)	236 NSOR	4000337	Stage -III Complete plaster (external and internal), Paint (External & Internal) Grills, flooring, doors and window work etc. all complete.	Vol-II/P-187 to 192	per job	281470.44	
(iv)	237 NSOR	4000338	Stage -IV Steel work in roof truss profile sheet etc. all complete	Vol-II/P-193 to 194	per job	344082.28	
(v)	238 NSOR	3011144	Stage -V Complete Electrification work i/c All Electrical Fixtures	Vol-II/P-195 to 197	per job	47403.50	
Grand Total 4 Bay Shed for T&C						1237218.03	