



ANDHRA PRADESH CENTRAL POWER DISTRIBUTION CORPORATION LIMITED
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Office of the
Chairman & Managing Director,
APCPDCL, Vijayawada

Memo No CMD/APCPDCL/VJA/D No 255 /22, Dt:- 02-12-2023.

Sub:-APCPDCL –Revised common SSR for APCPDCL for the year 2023-24 –
Communicated - Reg.

Ref:-1) SPDCL SSR 2023-24 issued with effect from 1-8-2023.

The revised common SSR for the year 2023-24 for APCPDCL is hereby
communicated for immediate implementation.

This SSR 2023-24 supersedes the SSR 2022-23 for a period of four months ie
August, September, October and November, 2023.

The copy of SSR 2023-24 can be downloaded from our website www.apcpdcl.in .


Chairman and Managing Director,
APCPDCL: Vijayawada

To

The Superintending Engineer, Operation, Vijayawada, Guntur, Ongole, CRDA for
necessary action.

Copy to the Chief General Manager, O&M, APCPDCL for necessary action.

Copy to the Chief General Manager, Projects, APCPDCL for necessary action.

Copy to the Chief General Manager, P&MM, APCPDCL for necessary action.

Copy to the Director, Technical for information.

Copy to the Director, Finance for information.



Andhra Pradesh Central Power Distribution Corporation Limited

**SSR for APCPDCL for the year 2023-24
(Effective from 1-8-2023)**

Prepared by SSR committee consisting members of APCPDCL

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1. Loading/Unloading charges							
SL NO	Description of material	Unit	Unit weight in Kg	SAP Code	Loading	SAP Code	Un-Loading
1.1	PSCC Poles						
1.1.1	8m/140 KG PSCC Pole	EA	355	CLD00001	150	CUD00001	75
1.1.2	8m/200 KG PSCC Pole	EA	380	CLD00002	157	CUD00002	79
1.1.3	8m/300 KG PSCC Pole	EA	505	CLD00003	210	CUD00003	106
1.1.4	9.1m/280 KG PSCC Pole	EA	680	CLD00004	293	CUD00004	147
1.1.5	11m/365 KG PSCC Pole	EA	1127	CLD00005	579	CUD00005	290
1.2	Spun poles						
1.2.1	9.5m/300 KG Spun pole	EA	620	CLD00006	402	CUD00006	280
1.2.2	11m/350KG Spun pole	EA	900	CLD00007	556	CUD00007	366
1.2.3	12.5m/350 KG Spun pole	EA	1200	CLD00008	714	CUD00008	499
1.3	RS Joists						
1.3.1	9m - 150x75 RS Joist pole	EA	140	CLD00009	105	CUD00009	77
1.3.2	9m- 175 x85 RS Joist Pole	EA	215	CLD00010	105	CUD00010	77
1.3.3	9m - 150x150 RS Joist Pole (34.6Kg/m)	EA	311.4	CLD00011	150	CUD00011	75
1.3.4	11m- 175 x85 RS Joist Pole (19.3Kg/m)	EA	212.3	CLD00012	101	CUD00012	66
1.3.5	11m - 150x150 RS Joist Pole (34.6Kg/m)	EA	380.6	CLD00013	166	CUD00013	82
1.4	Rail poles						
1.4.1	8.23m - 60lbs/27.3 Kg Rail pole	EA	225	CLD00014	101	CUD00014	66
1.4.2	9.14m - 75lbs/34.1 Kg Rail pole	EA	312	CLD00015	117	CUD00015	75
1.4.3	9.14m - 90lbs/40.9Kg Rail pole	EA	374	CLD00016	141	CUD00016	82
1.4.4	9.14m - 105lbs/47.7Kg Rail pole	EA	436	CLD00017	161	CUD00017	92
1.5	Distribution Transformers						
1.5.1	1Ph 5 KVA DTR	EA	75	CLD00018	50	CUD00018	50
1.5.2	1Ph 10KVA DTR	EA	115	CLD00019	82	CUD00019	82
1.5.3	1Ph 15/16KVA DTR	EA	190	CLD00020	125	CUD00020	125
1.5.4	1Ph 25KVA DTR	EA	245	CLD00021	208	CUD00021	208
1.5.5	3Ph 15/16KVA DTR	EA	280	CLD00022	205	CUD00022	205
1.5.6	3Ph 25KVA DTR	EA	350	CLD00023	235	CUD00023	235
1.5.7	3Ph 40 KVA DTR	EA	455	CLD00024	248	CUD00024	248
1.5.8	3Ph 50 KVA DTR	EA	510	CLD00025	248	CUD00025	248

1.5.9	3Ph 63 KVA DTR	EA	690	CLD00026	375	CUD00026	375
1.5.10	3Ph 75 KVA DTR	EA	730	CLD00027	450	CUD00027	450
1.5.11	3Ph 100 KVA DTR	EA	730	CLD00028	450	CUD00028	450
1.5.12	Amorphous make 100KVA DTRs	EA	900	CLD00029	450	CUD00029	450
1.5.13	3Ph 160KVA DTR	EA	1200	CLD00030	556	CUD00030	556
1.5.14	3Ph 250 KVA DTR	EA	1700	CLD00031	788	CUD00031	788
1.5.15	3Ph 315 KVA DTR	EA	2340	CLD00032	1083	CUD00032	1083
1.5.16	3Ph 500 KVA DTR	EA	2750	CLD00033	1272	CUD00033	1272
1.6	Power Transformers						
1.6.1	3.15 MVA PTR	EA	10350	CLD00034	7954	CUD00034	7954
1.6.2	5.0 MVA PTR	EA	16000	CLD00035	10624	CUD00035	10624
1.6.3	8.0 MVA PTR	EA	18500	CLD00036	13280	CUD00036	13280
1.6.4	10.0 MVA PTR	EA	22500	CLD00037	16101	CUD00037	16101
1.6.5	12.5 MVA PTR	EA	25000	CLD00038	17891	CUD00038	17891
1.7	Isolators						
1.7.1	33 KV AB switch	EA	224	CLD00039	138	CUD00039	138
1.7.2	11 KV AB switch	EA	70	CLD00040	52	CUD00040	52
1.7.3	11 KV H.G. Fuse set	EA	30	CLD00041	21	CUD00041	21
1.7.4	L.T. H.G. Fuse set	EA	25	CLD00042	17	CUD00042	17
1.8	EQUIPMENT						
1.8.1	33 KV VCB alone	SET	910	CLD00043	1496	CUD00043	1496
1.8.2	11 KV VCB alone	SET	730	CLD00044	1286	CUD00044	1286
1.8.3	33KV or 11 KV control panels	EA	225	CLD00045	297	CUD00045	297
1.8.4	33KV HV/LV twin feeder panel	EA	600	CLD00046	596	CUD00046	596
1.8.5	11 KV Metering cubicle	SET	170	CLD00047	248	CUD00047	248
1.8.6	33KV PT or CT	EA	110	CLD00048	216	CUD00048	216
1.8.7	11KV PT or CT	EA	65	CLD00049	117	CUD00049	117
1.8.8	Batteries	EA	27	CLD00050	26	CUD00050	26
1.8.9	Charger with batteries	EA	45	CLD00051	44	CUD00051	44
1.9	Iron Materials						
1.9.1	Iron and steel materials	TO N	1000	CLD00052	415	CUD00052	415
1.9.2	HT, Mild steel wire	TO N	1000	CLD00053	415	CUD00053	415
1.9.3	Stay wire, GI wire	TO N	1000	CLD00054	415	CUD00054	415
1.9.4	D.P. structural materials	SET	480	CLD00055	166	CUD00055	166
1.9.5	40 KVA DTR mounting arrangements	EA	45	CLD00056	34	CUD00056	34

1.9.6	Seating arrangements of 3ph16/25KVA DTRs	EA	40	CLD00057	34	CUD00057	34
1.9.7	33 KV ' V' cross arms	EA	22.5	CLD00058	10	CUD00058	10
1.9.8	11 KV ' V' cross arms	EA	11	CLD00059	7	CUD00059	7
1.9.9	Three phase cross arms	EA	8.8	CLD00060	6	CUD00060	6
1.9.10	Single phase cross arms	EA	5.5	CLD00061	4	CUD00061	4
1.9.11	33 KV Top Fittings	EA	7	CLD00062	4	CUD00062	4
1.9.12	11 KV Top Fittings	EA	4.4	CLD00063	4	CUD00063	4
1.9.13	L.T Top Fittings	EA	3.5	CLD00064	2	CUD00064	2
1.9.14	Back clamps	EA	1.2	CLD00065	1	CUD00065	1
1.9.15	Stay clamps set	SET	1.5	CLD00066	1	CUD00066	1
1.9.16	Stay set	SET	7.8	CLD00067	6	CUD00067	6
1.9.17	G.I. Earth pipes	EA	6.4	CLD00068	6	CUD00068	6
1.9.18	C.I. Earth pipes	EA	35	CLD00069	17	CUD00069	17
1.9.19	'A' Type Distribution Box	EA	55	CLD00070	25	CUD00070	25
1.9.20	'B' type distribution box	SET	20	CLD00071	10	CUD00071	10
1.9.21	M.S/GI Bolts & Nuts	KG	1	CLD00072	1	CUD00072	1
1.9.22	S-Ph MCCB Distribution Box	EA	70	CLD00124	33	CUD00124	33
1.9.23	3-Ph MCCB Distribution Box	EA	70	CLD00125	33	CUD00125	33
1.9.24	SMC/ LT Distribution box	EA	25	CLD00126	25	CUD00126	25
1.9.25	Transformer Stand for 63KVA DTR	EA	85	CLD00127	44	CUD00127	44
1.9.26	Transformer Stand for 100KVA DTR	EA	95	CLD00128	44	CUD00128	44
1.9.27	Transformer Stand for 160KVA DTR	EA	115	CLD00129	77	CUD00129	77
1.9.28	Mounting arrangements TT ABS	EA	10	CLD00130	9	CUD00130	9
1.9.29	Mounting Arrangements 1 ph DTR	EA	15	CLD00131	10	CUD00131	10
1.9.30	Mounting Arrangement 200TT AB Switch	EA	10	CLD00132	9	CUD00132	9
1.9.31	33KV Strut and side arm	EA	35	CLD00133	9	CUD00133	9
1.9.32	33KV Tapping Cross Arms	EA	21	CLD00134	9	CUD00134	9
1.9.33	11KV Tapping Cross Arms	EA	21	CLD00135	6	CUD00135	6
1.9.34	HT/LT Box type Cross Arms	EA	45	CLD00136	13	CUD00136	13
1.9.35	LT Strut and side arm	EA	17.6	CLD00137	5	CUD00137	5
1.9.36	LT 3-PH 5wire cross arms	EA	8	CLD00138	17	CUD00138	17
1.9.37	33KV Back Clamps	EA	2.5	CLD00139	2	CUD00139	2
1.9.38	33kv stay clamps and set	EA	30	CLD00140	5	CUD00140	5
1.9.39	33KV T raises with clamps	EA	9.4	CLD00141	9	CUD00141	9
1.9.40	33kv stay set	EA	10	CLD00142	10	CUD00142	10

1.9.41	11KV Extension Piece	EA	10	CLD00143	6	CUD00143	6
1.9.42	33KV Extension Piece	EA	10	CLD00144	9	CUD00144	9
INSULATORS & PINS							
1.1	33KV - Insulators & Pins						
1.10.1	33 KV Post type Insulators-2 piece type	EA	6.2	CLD00073	10	CUD00073	10
1.10.2	33 KV Post type Insulators- Single piece solid core type	EA	10	CLD00074	11	CUD00074	11
1.10.3	33 KV Pin Insulators	EA	2.7	CLD00075	4	CUD00075	4
1.10.4	33 KV G.I. Pins	EA	2.3	CLD00076	2	CUD00076	2
1.10.5	33 KV Polymer disc	EA	1.25	CLD00077	4	CUD00077	4
1.10.6	33 KV LAS	EA	19.6	CLD00078	42	CUD00078	42
1.10.7	33kv polymer pin insulators	EA	3	CLD00145	4	CUD00145	4
1.10.8	11kv polymer pin insulators	EA	1	CLD00146	2	CUD00146	2
1.11	11KV - Insulators & Pins						
1.11.1	11 KV Post type Insulators	EA	5.6	CLD00079	6	CUD00079	6
1.11.2	11 KV Pin Insulators	EA	1.1	CLD00080	2	CUD00080	2
1.11.3	11 KV GI Pins	EA	0.9	CLD00081	2	CUD00081	2
1.11.4	11 KV Disc Insulators	EA	1.4	CLD00082	2	CUD00082	2
1.11.5	11 KV Polymer disc	EA	0.7	CLD00083	2	CUD00083	2
1.11.6	11 KV/33KV Metal parts	SET	1.95	CLD00084	2	CUD00084	2
1.11.7	H.T. Guy Insulators	EA	1.15	CLD00085	2	CUD00085	2
1.12	11 KV LAS						
1.12.1	11 KV LAS(Station Type)	EA	9.6	CLD00086	21	CUD00086	21
1.12.2	11 KV LAS(Line Type)	EA	6.6	CLD00087	10	CUD00087	10
1.13	LT- Insulators & Pins						
1.13.1	L.T. Pin Insulators	EA	0.5	CLD00088	1	CUD00088	1
1.13.2	L.T.G.I. Pins	SET	0.5	CLD00089	1	CUD00089	1
1.13.3	L.T. Shackles	EA	0.5	CLD00090	1	CUD00090	1
1.13.4	L.T. metal parts	SET	0.5	CLD00091	1	CUD00091	1
1.13.5	L.T. Guy Insulators	EA	0.5	CLD00092	1	CUD00092	1
1.14	CONDUCTOR/ CABLE						
1.14.1	Conductor Drum(All)	EA	900	CLD00093	386	CUD00093	386
1.14.2	PVC Cable(>25 up to 185sq.mm) Drum	EA	1000	CLD00094	248	CUD00094	248
1.14.3	PVC Cable up to and 10 Sq. Mm Drum	EA	734	CLD00095	244	CUD00095	244

1.1 4.4	33KV Cable XLPE Drum-35/50,70,95,120,185,300,400Sqmm & LT UV XLPE cable 300 Sqmm	DR UM	3000	CLD00096	992	CUD00096	992
1.1 4.5	11KV Cable XLPE Drum 35/50,70,95,120,185,300 Sqmm	DR UM	2000	CLD00097	662	CUD00097	662
1.15	GENERAL ITEMS						
1.15.1	Transformer oil drums with oil	EA	193	CLD00098	82	CUD00098	82
1.15.2	Empty oil drums	EA	22	CLD00099	17	CUD00099	17
1.15.3	C.T. Meter box with complete assembly	EA	15	CLD00100	26	CUD00100	26
1.15.4	3Ph/CT Meter Boxes	EA	10	CLD00101	11	CUD00101	11
1.15.5	3Ph Meters	EA	2.5	CLD00102	5	CUD00102	5
1.15.6	1Ph Meters	EA	1.2	CLD00103	4	CUD00103	4
1.15.7	Fuse units 16 A to 32 A	EA	0.4	CLD00104	1	CUD00104	1
1.15.8	Fuse units 63 A / 100 A	EA	0.75	CLD00105	1	CUD00105	1
1.15.9	Fuse units 200 A, 300 A	EA	1	CLD00106	2	CUD00106	2
1.15.1 0	100 Lugs	CA R- 100 lugs	1.6	CLD00107	10	CUD00107	10
1.15.1 1	11KV Fixed/ Moving contacts	EA	1.2	CLD00108	2	CUD00108	2
1.15.1 2	33KV Fixed/ Moving contacts	EA	2.5	CLD00109	4	CUD00109	4
1.15.1 3	11KV Cable Jointing kits	EA	2	CLD00110	6	CUD00110	6
1.15.1 4	33KV Cable Jointing kits	EA	3.5	CLD00111	10	CUD00111	10
1.15.1 5	Street light fixture	SET	12.5	CLD00112	13	CUD00112	13
1.15.1 6	Fuse wire/MRT Materials	KG	1	CLD00113	4	CUD00113	4
1.15.1 7	Winding wire up to 5 Kg	ROL	5	CLD00114	6	CUD00114	6
1.15.1 8	Winding wire more than 5 Kg	ROL	15	CLD00115	15	CUD00115	15
1.16	Paints						
1.16.1	Paints up to & including 5 Lts	EA	5	CLD00116	3	CUD00116	3
1.16.2	Paints >5 Lts<=20 lts	EA	20	CLD00117	13	CUD00117	13
1.16.3	Cement	TO	1000	CLD00118	331	CUD00118	331

1.17	Loading and unloading of any other materials						
1.17.1	Indoor Items up to 10 Kgs	BA G	10	CLD00119	10	CUD00119	10
1.17.2	Indoor Items > 10 Kgs	BA G	25	CLD00120	26	CUD00120	26
1.18	SCRAP						
1.18.1	Al./Cu/Plastic Scrap	TO	1000	CLD00121	720	CUD00121	720
1.18.2	Meters Scrap W/weightment	TO	1000	CLD00122	549	CUD00122	549
1.18.3	MS/Lead Scrap W/weightment	TO	1000	CLD00123	549	CUD00123	549
New items							
1	11k v Side arms with stuts	EA			5		5
2	LT Side arms with stuts	EA			4		4
3	33KV Tapping Cross Arms	EA			5		5
4	11KV Tapping Cross Arms	EA			4		4
5	SR Transformer S-Ph	EA			75		75
6	SR Transformer 3-Ph	EA			102		102
7	RCC base plates 450 x 450 x 75mm	EA			7		7
8	HT special Distn. Box or HT meter Box	EA			35		35
9	T/W section boards / Meter boards of all sizes	EA			3		3
10	Tyres, Tubes & Flaps of all sizes	EA			35		18
11	Gloves, Gauntlets-Each pair	EA			3		3
12	Safety belts, Rain coats	EA			3		3
13	Manilla Rope	KG			0		0
14	Tape rolls	EA			0		0
15	11KV Solid core Insulator (All types)	EA			4		4
16	33KV Solid core Insulator(Polymer)	EA			4		4
17	AB switch / VCB spares	EA			1		1
18	220V Battery charger with Batteries	EA			340		340
19	HT/LT Bi metallic connectors	EA			0		0
20	Suspension / Ded end clamps / CI Knobs	EA			0		0
21	Computer with peripherals	EA			50		50

22	Plastic Seal Bits all Colours	Box			18		7
23	Terminal Covers	EA			0		0
24	Bus bar Pipes	EA			9		9
25	Chairs	EA			10		10
26	Table / Racks (Any Size)	EA			25		25
27	Earth discharging rods	EA			7		7
28	Chain pully blocks 2T/3T/5T	EA			25		25
29	Line man Tool kits	EA			8		8
30	Meggers (All types)	EA			10		10
31	ALMUs	EA			7		7
32	Digital Ammeters & Voltmeters	EA			3		3
33	Rings Spanner sets	EA			7		7
34	Almara	EA			100		100
35	Rechargeable spot lights	EA			3		3
36	Fire Extinguishers	EA			12		12
37	Vaccum Interrupters	EA			15		15
38	Silicagel breathers of all sizes	EA			5		5
39	Cotton waste	KG			0		0
40	Relays all types	EA			5		5
41	Silicagel	KG			2		2
42	Hydrolic jacks	EA			30		30
43	HV&LV epoxy bushings	EA			3		3
44	Rubber gasket sheets	Bun dle			30		30
45	Latheroid paper	Bun dle			20		20
46	Press board sheets	Bun dle			30		30
47	Steel Alamarah (6.5')	EA			40		40
48	Sub-Station Materials (All type of clamps)	EA			1		1
49	HP LT 04 Data Tapes	EA			1		1
50	IR Port Cables for Billing	EA			0		0
51	500W Halozen Lights	EA			2		2
52	Intergrated Spot Billing Machine	EA			2		2
53	33 KV HG Fuse Sets	EA			14		14
54	UPS	EA			10		10
55	Lap Top with all other accessories	EA			15		15
56	30 KVA UPS with Batteries	EA			140		140
57	Modems	EA			3		3
58	Digital Projector without sealing Mounted	EA			45		45

59	Hand held Computer for Spot Collection	EA			3		3
60	Unwinding of LT PVC CU Control Cable 4 Core , 10 Core 2.5 Sqmm	KM			40		40
61	Vehicle Scrap Jeeps & Van	EA			300		300
62	150 W Ballast and Igniters and Lamps	EA			1		1
63	LT Line Separators (3W&4W&5W)	EA			0		0
64	LT PVC Cleats (70&120Sqmm)	EA			0		0
65	2Ton Air Conditioner	EA			20		20
66	11 KV Pole Assembly	EA			50		50
67	33 KV Pole Assembly	EA			50		50
68	11 KV Roof Bushing	EA			6		6
69	Insulating Breaking Unit	EA			60		60
70	Closing Coils, Tripping Coils	EA			1		1
71	Top Insulators Chamber for interrupter housing	EA			12		12
72	Primary and Secondary Injection Kit	EA			15		15
73	Hand Operated Crimping Tool	EA			4		4
74	Slings 5” Long with 3 Ton Cap,D couples	EA			6		6
75	Foot Cross Arms	EA			1		1
76	Rubberized HV Oil Seals, LV Oil Seals for DTRs	EA			0		0
77	Nylon Washers all Sizes , Filter Pack	EA			0		0
78	Utilization of Crane for erection of DTR	EA			1200		1200
79	ACSR Scrap	MT			281		281
80	Cable Scrap	MT			240		240
81	Polycarbonate Scrap	MT			329		329
82	Unservice Battery	EA			3		3
83	11 KV upto 2 MVAR Capacitor Banks (40 Items)	Set			1507		1507
84	Removed Pump Sets	EA			60		60
85	11kv Frb V Cross arm with Top Cleat	EA			4		3
86	Helmets	EA			0		0
87	Tong Testers	EA			1		1
88	Meter Calibration kit / EARTH TESTER)	EA			8		8
89	Flexible jumpers	EA			0		0

90	Scanners	EA			10		10
91	Labour charges for Loading of 110/293.3/220 KVAR,7.3KV Capacitor units	EA			10		10
1.19	Un coiling of conductor/ cables including weighment and loading						
Sl.No.	Description				Rate per	SAP Code	Rate
1.19.1	34sqmm conductor				KM	CSR00001	117
1.19.2	55sqmm conductor				KM	CSR00002	140
1.19.3	100sqmm conductor				KM	CSR00003	175
1.19.4	200sqmm /Panther conductor- 100RM				EA	CSR00004	93
1.19.5	Single Core 120/95/70 Sqmm LT X-PLE cables				1RM	CSR00005	1
1.19.6	3 1/2 Core 120/95/70/50 Sqmm LT X-PLE cables				1RM	CSR00006	2
1.19.7	Coils 50 / 25 Sqmm				1RM	CSR00007	1
1.19.8	Coils 10 / 6 / 4.25 / 1.5 Sqmm				1RM	CSR00008	1
1.19.9	Unwinding including loading 11KV Cable XLPE 35, 50, 70, 95, 120,185,300 Sqmm & LT UV XLPE cable 300 Sqmm				Meter	CSR00009	7
1.19.10	Unwinding including loading 33KV Cable XLPE 35, 50, 70, 95, 120,185,300,400 Sqmm				Meter	CSR00010	14
1.19.11	Un Winding , Weighing and Shifting of 3CX16+25 AB Cable (Check Measurement)				KM	CSR00011	140
1.19.12	Un Winding , Weighing and Shifting of 2CX16+25 AB Cable (Check Measurement)				KM	CSR00012	140
2	Survey of HT/LT lines						
2.1	Labour charges for survey and pit marking of HT/LT lines in plain areas				KM	CSR00013	690
2.2	Labour charges for survey and pit marking of HT/LT lines in Agency and Hilly areas.				KM	CSR00014	960
3	Jungle clearance						
3.1	Clearing of heavy jungle				10 sqm	CSR00015	55
3.2	Cutting and removing other kind of trees				1 No	CSR00016	56
3.3	General Tree cutting per one day - Semi skilled labour				1no	CSR00017	764
4	Excavation of pole pits						
4.1	Excavation of pits in all soils , i.e, mixture of gravel and soft disintegrated rock like shales ordinary gravel, stony earth and earth mixed with fair sized boulders.						

4.1.1	For 8m or 9.1m PSCC/RS Joist Poles (Size of pit is 2'x2'x5' or 0.6mx0.6mx1.5m)	Pit	CSR00018	418
4.1.2	For 10m Joists/Rail Poles (Size of pit is 2'x2'x5'6" or 0.6mx0.6mx1.65m)	Pit	CSR00019	433
4.1.3	For 9.5m Spun or 11m Spun/Joist /PSCC Poles (2'6"x2'6"x6' or 0.75mx0.75mx1.8m)	Pit	CSR00020	523
4.1.4	For 12.5m Spun/Joist Poles (2'6"x2'6"x7' or 0.75mx0.75mx2.1m)	Pit	CSR00021	602
4.2	Excavation of pits in soft disintegrated rock removable by pick axes and disposing material to a lead of 10m and lift of 3m.			
4.2.1	For 8m or 9.1m PSCC/RS Joist Poles (Size of pit is 2'x2'x5' or 0.6mx0.6mx1.5m)	Pit	CSR00022	393
4.2.2	For 10m Joists/Rail Poles (Size of pit is 2'x2'x5'6" or 0.6mx0.6mx1.65m)	Pit	CSR00023	433
4.2.3	For 9.5m Spun or 11m Spun/Joist /PSCC Poles (2'6"x2'6"x6' or 0.75mx0.75mx1.8m)	Pit	CSR00024	737
4.2.4	For 12.5m Spun/Joist Poles (2'6"x2'6"x7' or 0.75mx0.75mx2.1m)	Pit	CSR00025	856
4.3	Excavation of pole pits in hard rock by blasting.			
4.3.1	For 8m or 9.1m PSCC/RS Joist Poles (Size of pit is 2'x2'x5' or 0.6mx0.6mx1.5m)	Pit	CSR00026	1014
4.3.2	For 10m Joists/Rail Poles (Size of pit is 2'x2'x5'6" or 0.6mx0.6mx1.65m)	Pit	CSR00027	1114
4.3.3	For 9.5m Spun or 11m Spun/Joist /PSCC Poles (2'6"x2'6"x6' or 0.75mx0.75mx1.8m)	Pit	CSR00028	1900
4.3.4	For 12.5m Spun/Joist Poles (2'6"x2'6"x7' or 0.75mx0.75mx2.1m)	Pit	CSR00029	2216
4.4	Excavation of pole pits for all sizes in cement roads(Shall be certified by Deputy Executive Engineer)	Pit	CSR00030	1667
4.5	Excavation of stay pit			
4.5.1	Excavation of stay pit of size 0.6 x 0.6 x 1.34 Mts. in all soils except Hard Garvel, Hard Murrum HDR and HR requiring blasting and back filling.	Per Pit	CSR00321	337
4.5.2	Excavation of stay pit size 0.45 x 0.45 x 1.34 Mts. In all soils except hard murrum and disintegrated rock which requires blasting	Per Pit	CSR00322	190
4.6	Excavation of pole pit in all soils with pole digging machine	per pit	CSR00323	484

4.7	Earth works excavation in all types of soils which can be excavated with pick axes and crowbars and do not require blazing in all conditions such as dry wet slushy etc. including shuttering and dewatering where ever necessary initial lead and one extra lift per cubic meter.	Per Cubic Meter	CSR00333	326
4.8	Construction of Metering cubicle plinth (maintain 7 feet above the ground level) with first class bricks and with CM 1:5. by making provision for erection of HT metering arrangement and including plastering.	Per CFT	CSR00334	321
5	Transport of one Pole from road side to pit location including loading and unloading (For 1Km, 2Km, 3Km, 4Km and 5 KM)			
5.1	Transport of PSCC poles	Unit	SAP Code	Rate
	Up to 1 Km			
5.1.1	8m/140 KG PSCC Pole	EA	CSR00031	526
5.1.2	8m/200 KG PSCC Pole	EA	CSR00032	591
5.1.3	8m/300 KG PSCC Pole	EA	CSR00033	615
5.1.4	9.1m/280 KG PSCC Pole	EA	CSR00034	777
5.1.5	11m/365 KG PSCC Pole	EA	CSR00035	1051
	Up to 2 Km			
5.1.6	8m/140 KG PSCC Pole	EA	CSR00036	592
5.1.7	8m/200 KG PSCC Pole	EA	CSR00037	662
5.1.8	8m/300 KG PSCC Pole	EA	CSR00038	690
5.1.9	9.1m/280 KG PSCC Pole	EA	CSR00039	871
5.1.10	11m/365 KG PSCC Pole	EA	CSR00040	1178
	Up to 3 Km			
5.1.11	8m/140 KG PSCC Pole	EA	CSR00041	655
5.1.12	8m/200 KG PSCC Pole	EA	CSR00042	733
5.1.13	8m/300 KG PSCC Pole	EA	CSR00043	762
5.1.14	9.1m/280 KG PSCC Pole	EA	CSR00044	963
5.1.15	11m/365 KG PSCC Pole	EA	CSR00045	1303
	Up to 4 Km			
5.1.16	8m/140 KG PSCC Pole	EA	CSR00046	717
5.1.17	8m/200 KG PSCC Pole	EA	CSR00047	803
5.1.18	8m/300 KG PSCC Pole	EA	CSR00048	837
5.1.19	9.1m/280 KG PSCC Pole	EA	CSR00049	1057
5.1.20	11m/365 KG PSCC Pole	EA	CSR00050	1430
	Up to 5 Km			
5.1.21	8m/140 KG PSCC Pole	EA	CSR00051	781
5.1.22	8m/200 KG PSCC Pole	EA	CSR00052	874
5.1.23	8m/300 KG PSCC Pole	EA	CSR00053	911
5.1.24	9.1m/280 KG PSCC Pole	EA	CSR00054	1149
5.1.25	11m/365 KG PSCC Pole	EA	CSR00055	1556
5.2	Transport of Spun Poles			
	Up to 1 Km			

5.2.1	9.5m/300 KG Spun pole	EA	CSR00056	1205
5.2.2	11m/350KG Spun pole	EA	CSR00057	1406
5.2.3	12.5m/350 KG Spun pole	EA	CSR00058	1534
	Up to 2 Km			
5.2.4	9.5m/300 KG Spun pole	EA	CSR00059	1351
5.2.5	11m/350KG Spun pole	EA	CSR00060	1576
5.2.6	12.5m/350 KG Spun pole	EA	CSR00061	1719
	Up to 3 Km			
5.2.7	9.5m/300 KG Spun pole	EA	CSR00062	1496
5.2.8	11m/350KG Spun pole	EA	CSR00063	1745
5.2.9	12.5m/350 KG Spun pole	EA	CSR00064	1904
	Up to 4 Km			
5.2.10	9.5m/300 KG Spun pole	EA	CSR00065	1640
5.2.11	11m/350KG Spun pole	EA	CSR00066	1912
5.2.12	12.5m/350 KG Spun pole	EA	CSR00067	2087
	Up to 5 Km			
5.2.13	9.5m/300 KG Spun pole	EA	CSR00068	1786
5.2.14	11m/350KG Spun pole	EA	CSR00069	2082
5.2.15	12.5m/350 KG Spun pole	EA	CSR00070	2272
	5.3 Transport of RS Joist poles			
	Up to 1 Km			
5.3.1	9m- 150x75 RS Joist pole	EA	CSR00071	526
5.3.2	9m- 175 x85 RS Joist Pole	EA	CSR00072	615
5.3.3	9m- 150x150 RS Joist Pole	EA	CSR00073	737
	Up to 2 Km			
5.3.4	9m - 150x75 RS Joist pole	EA	CSR00074	592
5.3.5	9m- 175 x85 RS Joist Pole	EA	CSR00075	690
5.3.6	9m - 150x150 RS Joist Pole	EA	CSR00076	826
	Up to 3 Km			
5.3.7	9m - 150x75 RS Joist pole	EA	CSR00077	655
5.3.8	9m- 175 x85 RS Joist Pole	EA	CSR00078	762
5.3.9	9m - 150x150 RS Joist Pole	EA	CSR00079	913
	Up to 4 Km			
5.3.10	9m - 150x75 RS Joist pole	EA	CSR00080	717
5.3.11	9m- 175 x85 RS Joist Pole	EA	CSR00081	837
5.3.12	9m - 150x150 RS Joist Pole	EA	CSR00082	1002
	Up to 5 Km			
5.3.13	9m - 150x75 RS Joist pole	EA	CSR00083	781
5.3.14	9m- 175 x85 RS Joist Pole	EA	CSR00084	911
5.3.15	9m - 150x150 RS Joist Pole	EA	CSR00085	1089
	5.4 Transport of Rail poles			
	Up to 1 Km			
5.4.1	8.23m - 60lbs/27.3 Kg Rail pole	EA	CSR00086	591
5.4.2	9.14m - 75lbs/34.1 Kg Rail pole	EA	CSR00087	777

5.4.3	9.14m - 90lbs/40.9Kg Rail pole	EA	CSR00088	820
5.4.4	9.14m - 105lbs/47.7Kg Rail pole	EA	CSR00089	868
	Up to 2 Km			
5.4.5	8.23m - 60lbs/27.3 Kg Rail pole	EA	CSR00090	662
5.4.6	9.14m - 75lbs/34.1 Kg Rail pole	EA	CSR00091	871
5.4.7	9.14m - 90lbs/40.9Kg Rail pole	EA	CSR00092	919
5.4.8	9.14m - 105lbs/47.7Kg Rail pole	EA	CSR00093	970
	Up to 3 Km			
5.4.9	8.23m - 60lbs/27.3 Kg Rail pole	EA	CSR00094	733
5.4.10	9.14m - 75lbs/34.1 Kg Rail pole	EA	CSR00095	963
5.4.11	9.14m - 90lbs/40.9Kg Rail pole	EA	CSR00096	1018
5.4.12	9.14m - 105lbs/47.7Kg Rail pole	EA	CSR00097	1076
	Up to 4 Km			
5.4.13	8.23m - 60lbs/27.3 Kg Rail pole	EA	CSR00098	803
5.4.14	9.14m - 75lbs/34.1 Kg Rail pole	EA	CSR00099	1057
5.4.15	9.14m - 90lbs/40.9Kg Rail pole	EA	CSR00100	1114
5.4.16	9.14m - 105lbs/47.7Kg Rail pole	EA	CSR00101	1180
	Up to 5 Km			
5.4.17	8.23m - 60lbs/27.3 Kg Rail pole	EA	CSR00102	874
5.4.18	9.14m - 75lbs/34.1 Kg Rail pole	EA	CSR00103	1149
5.4.19	9.14m - 90lbs/40.9Kg Rail pole	EA	CSR00104	1212
5.4.20	9.14m - 105lbs/47.7Kg Rail pole	EA	CSR00105	1283
6	Erection of PSCC/Spun/Rail/RS Joist Poles			
	Erection of PSCC/Spun/Rail/RS Joist Poles in position, aligning and setting to work as per specification including supply of labour, T&P, back filling the earth, ramming for consolidation but excluding the cost of pit excavation and cost of transport.			
6.1	Erection of PSCC poles	Unit		
6.1.1	8m/140 KG PSCC Pole	EA	CSR00106	714
6.1.2	8m/200 KG PSCC Pole	EA	CSR00107	1083
6.1.3	8m/300 KG PSCC Pole	EA	CSR00108	1069
6.1.4	9.1m/280 KG PSCC Pole	EA	CSR00109	2002
6.1.5	11m/365 KG PSCC Pole	EA	CSR00110	3496
6.2	Erection of Spun Poles			
6.2.1	9.5m/300 KG Spun pole	EA	CSR00111	2572
6.2.2	11m/350KG Spun pole	EA	CSR00112	3734
6.2.3	12.5m/350 KG Spun pole	EA	CSR00113	4588
6.3	Erection of RS Joist poles			
6.3.1	9m - 150x75 RS Joist pole	EA	CSR00114	655
6.3.2	9m- 175 x85 RS Joist Pole	EA	CSR00115	674
6.3.3	9m - 150x150 RS Joist Pole	EA	CSR00116	1249
6.4	Erection of Rail poles			

6.4.1	8.23m - 60lbs/27.3 Kg Rail pole	EA	CSR00117	1180
6.4.2	9.14m - 75lbs/34.1 Kg Rail pole	EA	CSR00118	1214
6.4.3	9.14m - 90lbs/40.9Kg Rail pole	EA	CSR00119	1237
6.4.4	9.14m - 105lbs/47.7Kg Rail pole	EA	CSR00120	1263
7	Rectification of Leaned poles			
	Labour charges for rectification of all types of leaned poles where the lean is more than 30 degree to the vertical.		35% of pole erection charges	
8	Dismantling works			
	Dismantling charges for all types of works		If pole is received in good condition then 75% of erection charges . If pole is received in damaged condition then 50% erection charges are payable.	
9	Erection of stay sets			
9.1	Erection of stay set for 33 KV line	EA	CSR00121	321
9.2	Erection of stay set for 11 KV line or LT Line	EA	CSR00122	331
10	Erection of Cross arms			
10.1	33KV Cross arms			
10.1.1	33 KV V X-arms	EA	CSR00123	118
10.1.2	33 KV Top fittings	EA	CSR00124	92
10.1.3	33 KV Tapping Channel X-arm set	EA	CSR00125	136
10.1.4	33 KV Side arm with strut	EA	CSR00126	156
10.1.5	33 KV T Channel Set	EA	CSR00127	156
10.2	11 KV Cross arms			
10.2.1	11 KV V X-arms	EA	CSR00128	95
10.2.2	11 KV Top fittings	EA	CSR00129	60
10.2.3	11 KV Tapping Channel X-arm	EA	CSR00130	108
10.2.4	11 KV Side arm with strut	EA	CSR00131	149
10.2.5	11 KV T Channel Set	EA	CSR00132	129
10.3	LT Cross arms			
10.3.1	LT S Ph. X-arm	EA	CSR00133	85
10.3.2	LT Top fitting	EA	CSR00134	55
10.3.3	LT 3 Ph. 4 / 5 W X-arm	EA	CSR00135	95
10.3.4	LT 3 Ph. Side arm with strut	EA	CSR00136	106
10.4	LT Distribution Boxes			
10.4.1	Labour charges for erection of LT Dist. Box including earthing as per departmental standards.	Each	CSR00324	354
10.5	HT/LT box type side arm	EA	CSR00497	1284
11	Fixing of insulators			

11.1	33 KV Insulators			
11.1.1	33 KV Polymer Pin Insulators	Each	CSR00137	44
11.1.2	33 KV Porcelain Pin Insulators	Each	CSR00138	42
11.1.3	33 KV Composite Polymer/porcelain Disc Insulator	Each	CSR00139	122
11.2	11 KV Insulators			
11.2.1	11 KV Polymer Pin Insulators	Each	CSR00140	42
11.2.2	11 KV Porcelain Pin Insulators	Each	CSR00141	42
11.2.3	11 KV Composite Polymer/ porcelain Disc Insulator	Each	CSR00142	81
11.3	LT Insulators			
11.3.1	LT PI / Shackles	Each	CSR00143	32
12	Erection of Double Pole structure			
	Individual pole erection charges and other relevant items are to be considered to arrive the cost of erection of double pole structure			
13	Erection of Strut			
13.1	Erection of Strut	Relevant pole erection charges are to be considered for erection of strut		
13.2	Erection of 33KV Stay set with stay wire binding for eye bolt guy insulator and anchor rod and back filling the stay pit.	EA	CSR00144	299
13.3	Erection of 11KV Stay set with stay wire binding for eye bolt guy insulator and anchor rod and back filling the stay pit.	EA	CSR00145	248
14	Paving, Stringing and Jumpering of Conductor			
14.1	100 sq mm AAAC /Per KM/Per Conductor	KM	CSR00146	7621
14.2	55 sq mm AAAC /Per KM/Per Conductor	KM	CSR00147	3985
14.3	34 sq mm AAAC/Per KM/Per Conductor	KM	CSR00148	3320
14.4	148 sqmm AAAC/ 150 sqmm ACSR conductor/ per KM/ Per Conductor	KM	CSR00498	10700
14.5	33KV Covered conductor including erection of IPC etc	KM	CSR00499	10700
14.6	11KV Covered conductor including erection of IPC etc	KM	CSR00500	7276
14.7	Dismantling charges of covered conductor 33 KV	KM	CSR00501	5350
14.8	Dismantling charges of covered conductor 11 KV	KM	CSR00502	3638
15	Paving , Stringing and Jumpering of Cable			
15.1	2x16+25 sq mm	KM	CSR00149	3734
15.2	3x16+25 sq mm	KM	CSR00150	6448

15.3	11KV AB cable	KM	CSR00151	18449
15.4	1x25+25 sqmm	KM	CSR00503	3247
	3x25+25 sq mm	KM		
16	Restringing of loose spans			
	Charges for restringing of loose spans	50% of stringing charges		
17	Concreting of pole pits, stay pits and construction of DTR plinths			
	AP Government has issued orders duly specifying rates of sand based on stock point. These rates varies from Rs 375 to Rs 1865/- per Metric tonne for each stock point differently. Hence the item rates are given in four categories as shown below. While preparing estimate, user has to verify nearest stock point sand rate from the site and adopt proper item rate.			
17.1	Concreting of pole pit			
17.1.1	Concreting of pole pit of size 2'x2'x5' (0.6m x 0.6mx1.5 m.) with C.C.(1:4:8) using 40 mm. HBG metal.	EA	CSR00152	3524
17.1.2	Concreting of pole pit of size 2'x2'x5' (0.6m x 0.6mx1.5 m.) with C.C.(1:3:6) using 20 mm and 12mm HBG metal.	EA	CSR00153	4021
17.1.2.1	8.0 M/200 Kg PSCC Pole (Pole pit size 0.6 X 0.6 X 1.5 M)	per pit		4021
17.1.2.2	8.0 M/300 Kg PSCC Pole (Pole pit size 0.6 X 0.6 X 1.5 M)	per pit		4021
17.1.2.3	9.1 M/280 Kg PSCC Pole (Pole pit size 0.6 X 0.6 X 1.5 M)	per pit		4021
17.1.2.4	11.0 M/365 Kg PSCC Pole (Pole pit size 0.6 X 0.6 X 1.8 M)	per pit		4054
17.1.2.5	9.50 M/350 Kg Spun Pole (Pole pit size 0.6 X 0.6 X 1.8 M)	per pit		4054
17.1.2.6	11.0 M/350 Kg Spun Pole (Pole pit size 0.6 X 0.6 X 1.8 M)	per pit		4054
17.1.2.7	12.50 M/350 Kg Spun Pole (Pole pit size 0.6 X 0.6 X 2.0 M)	per pit		4504
17.2	Concreting of stay pit			
17.2.1	Concreting of stay pit of size 1'-6" x 1'-6" x 4'6" (0.45mx0.45x1.35m) with C.C. (1:4:8) using 40 mm and 20mm HBG metal	EA	CSR00154	1789
17.2.2	Concreting of stay pit of size 1' 6"x 1'-6" x 4' 6"(0.45mx0.45x1.35m) with C.C. (1:3:6) using 20 mm and 12mm HBG metal	EA	CSR00155	1883
17.3	Construction of DTR plinths			

17.3.1	Construction of DTR plinths- Size 4'x4'x6'(above ground) and 4'x4'x3' (below ground) with brick masonry/RR masonry wall - Excavation of pit of size 4'x4'x3', laying bed concrete with CC(1:4:8) using 40mm and 20mm HBG metal for 6" depth, Construction of distribution transformer plinth with 9" thick 8' height brick masonry wall in CM (1:6) all- round, filling the hollow portion with sand, laying of 6" thick PCC (1:3:6) using 20 mm and 12mm HBG metal on top and plastering all-round the outer side of wall with CM (1:5) 12mm thick and white washing two coats, including cost and Transport of all materials.	EA	CSR00156	29809
17.3.2	Construction of DTR plinths- Pillar mounted RCC plinth with 5'x5'x5" slab with column 6' above ground level. - Excavation of pit of size 4'x4'x5', laying bed concrete with CC(1:4:8) using 40mm and 20mm HBG metal for 6" depth, Construction of distribution transformer plinth with footing size (4'x4'x1.5'), column size 9"x9"x4'6"(below ground), 9"x9"x5' (above ground), cross beams in plus shape 4'x9"x12", slab size 5'x5'x5", providing reif steel 12mm rod for footings and slab at 6" spacing, 4 nos 12mm rod for columns and beams with 8mm stirrups, re-filling the hollow portion with excavated earth, plastering CM (1:5) 12mm thick and painting one coat to slabs, column and beam.	EA	CSR00158	28874
17.3.3	Construction of DTR plinths- Size 4'x4'x6'(above ground) and 4'x4'x3' (below ground) with brick masonry/RR masonry wall- Excavation of pit of size 4'x4'x3', laying bed concrete with CC(1:4:8) using 40mm and 20mm HBG metal for 6" depth, Construction of distribution transformer plinth with 9" thick 8'6" height brick masonry wall in CM (1:6) all- round, filling the hollow portion with sand, and plastering all-round the outer side of wall with CM (1:5) 12mm thick and white washing two coats, including cost and Transport of all	EA	CSR00159	37407
18	Erection or Dismantlement of DTRs			
	Erection of Distribution Transformer on the plinth/pole carefully without causing and damaging to bushing including labour and transport complete including earthing as per department standards.			
18.1	1Ph DTRs 5 / 15 KVA	EA	CSR00160	745
18.2	3Ph DTRs up to 40 KVA	EA	CSR00161	1312
18.3	3Ph DTRs 63 KVA to 160 KVA	EA	CSR00162	1606
18.4	3Ph DTRs 200 KVA to 500 KVA	EA	CSR00163	2155
19	Erection of earth electrodes			
	Erection of earth electrodes using CI/GI pipes including pit excavation, back filling , betonite powder and cement collar of 2'dia x 1' height etc complete.			
19.1	GI Pipe 40mm/ 80mm depth up to 2m (6.5ft)			

	(a) Including cement collar and bentonite powder	EA	CSR00164	1337
	(b) Excluding cement collar and bentonite powder	EA	CSR00504	830
19.2	CI Pipe 80mm/ 150mm depth up to 3m (10ft)			
	(a) Including cement collar and bentonite powder	EA	CSR00165	1826
	(b) Excluding cement collar and bentonite powder	EA	CSR00505	1162
19.3	Fixing of CI Knob	EA	CSR00326	18
20	Wiring of 3 Phase DTR			
	Wiring of 3 phase Distribution Transformer with PVC Cable/XLPE cable/ conductor from transformer LV bushing to LT HG Fuse set and HG Fuse set to line with bear conductor supported on insulator fixed to fabricated LV frame including lugging at terminals.			
20.1	Single feeder (open / PVC cable/ XLPE Cable)	EA	CSR00166	953
20.2	Double feeder (open / PVC cable/ XLPE Cable)	EA	CSR00167	1763
20.3	Running of separate earth with 25x4mm GI/ Copper earth flat from transformer neutral bushing to the earth pipe.	RMT	CSR00331	19
21	Earthing of DTRs			
	Running of No 8 G.I wire from Distribution Transformer (3 Phase) AB Switch, HG Fuse Set V'X' Arm etc running of 14 SWG G.I. Wire including double earthing as per specification for running of total 10 Nos GI wires. (Per Lead Per length)	Per Lead Per length	CSR00168	50
22	Security fencing to DTRs			
22.1	Providing security fencing to Distribution Transformer structures with gate and locking arrangement which is one side removable and three sides fixed fencing using G.I. Chain link mesh 8 gauge 50.8mm x 50.8mm (2" x 2") size, MS angle 50 x 50 x 6, MS flat 35 x 6, MS flat 25 x 6, bolts, nuts, Aldrop, hinges, concreting the supports with PCC (1:3:6), painting one coat red oxide, two coats synthetic enamel paint, complete for finished item of work.	1 sqm	CSR00169	1721
22.2	Construction of fencing around the DTR's duly executing 0.50 x 0.50 earth work, PCC (1:4:8) 6", and providing fly ash brick masonry with CM (1:4) of size 0.4 x 0.80M, RCC jolies os size 2' x 3' of standard specification in betand providing of brick masonry column of size 9" x 9" x 2' height for every alternate single joli . The cost inclusive of all materials, leads with conveyance & labour and plastering and white washing with two coats.	Per Mete	CSR00332	5050
23	Erection of HG Fuse sets			
23.1	Erection of HG Fuse sets- 33 KV fuse set	EA	CSR00170	742

23.2	Erection of HG Fuse sets- 11 KV fuse set	EA	CSR00171	489
23.3	Erection of HG Fuse sets- LT fuse set	EA	CSR00172	366
23.4	Erection of 1-Ph 11KV HG Fuse Set	EA	CSR00328	309
24	Extra percentage towards work involving(a) Single Pole (b) Two Pole (c) Three Poles (This rate is applicable to both Urban and Rural areas)			
24.1	Single Pole	EA		50%
24.2	Two Poles	EA		20%
24.3	Three Poles	EA		
	33/11 KV sub station works			
25	Erection of VCBs with CTs and CR Panels including earthing, wiring and Jumpering with all accessories as per departmental standards.			
25.1	33 KV VCBs	EA	CSR00173	12533
25.2	11 KV VCBs	EA	CSR00174	10638
25.3	Extension of existing 33KV bay including fabrication and erection of 3 Nos. structural supports (BF Beams150x150mm and drilling holes etc.) and structural members and seating channels (MS channel 100mmx50mm), formation of bus, jumpers connectivity with 200sq. Mm&100Sq. mm and earth flat raisers including bolt& nuts etc as per specification and drawing and two coats of aluminium paint of relevant Indian standard but excluding pit excavation, concreting and copings.	Each Bay	CSR00335	67375
25.4	Extension of existing 11KV bay including fabrication and erection of 3 Nos. structural supports (BF Beams150x150mm and drilling holes etc.) and structural members and seating channels (MS channel 100mmx50mm), formation of bus, jumpers connectivity with 200sq. Mm&100Sq. mm and earth flat raisers including bolt& nuts etc as per specification and drawing and two coats of aluminium paint of relevant Indian standard but excluding pit excavation, concreting and copings.	Each Bay	CSR00336	49876
25.5	Formation of 33KV & 11KV strung bus with 200 Sqmm panther conductor for each Phase including hoisting of Post type insulators and hardware, stretching of conductor and measuring, cutting, clamping of the conductor fixing of post type insulators to support the conductor where ever necessary and fixing of disc insulators.	Each Bay	CSR00337	6474
25.6	Connecting equipment to bus and another equipment with single 200 Sqmm panther conductor including measuring cutting clamping and also fixing of post type insulators to support the conductor wherever necessary.	Each Jumper (Both sides)	CSR00338	251

25.7	Labour Charges for providing 0.3x0.3x0.3 Mts. coping including muffing to all varieties to supports with C.C (1:4:8) mix with 10-20mm HBG metal plastering etc., including cost of cement, watering as per departmental standards including transport of materials to location upto a maximum distance of 1.5 KM (Excluding pit excavation)	Each Loc	CSR00339	415
25.8	Labour charges for providing sleeve concreting of size 2'x2'x2'6" coping and muffing to all varieties of supports with CC (1:3:6) as per the departmental standards including cost of HBG metal 12 to 20mm, sand transport to location including cost of cement etc.	Each pit	CSR00340	3171
25.9	Base concreting of BF beam locations with 1:3:6 CC mix using 20 mm HBG metal to a height of 0.15 meters (0.96x0.96x0.15M) and concreting of BF Beam locations with 1:3:6 CC mix using 40 mm HBG metal (0.76x0.76x1.35M) including cost of excavation in all types of soils, including shoring, shuttering and dewatering wherever necessary covering all leads & lifts and including plastering the location with 12 mm thick CM (1:5) and white washing with cement paint including cost of cement, sand, paints etc. as per Technical specification.	Each Location	CSR00341	7094
25.10	Laying of foundation plinths for 11 KV VCB with CTs and panel including shorting, shuttering, dewatering the pits before and during the process of laying cement concrete 1:3:6 with 20 mm HBG metal (1.5x1.5x0.2 (base) + 0.3 (top) and concreting 1:3:6 with 40MM HBG metal (1.5x1.5x0.6)) and plastering the foundation plinths with 12 mm thickness and white washing with cement paint including cost of cement, sand & paint etc., as per technical specification.	Each Plinth	CSR00342	20983
26	Erection of AB switches			
26.1	33 KV AB switch	EA	CSR00175	2067
26.2	11 KV AB switch	EA	CSR00176	1622
26.3	Erection of 1-Ph 11KV AB Switch, Operating rod	EA	CSR00327	653
26.4	Erection 400A AB Switch in 11KV lines	EA	CSR00506	1712
27	Painting of old structures (Work is to be done during LC period, hence these rates are applicable for old structures. For new structures separate rate is to be worked out)			
27.1	Painting of old structures - with One coat of Anti corrosive bitumen black paint or red oxide priming coat during LC period.			
	Rate /1 sqm	1sqm	CSR00177	150
	Rate / 1MT	1MT	CSR00178	4660

27.2	Painting of old structures - with One coat of aluminium/ Synthetic enamel paint during LC period.			
	Rate /1 sqm	1sqm	CSR00179	165
	Rate / 1MT	1MT	CSR00180	5121
27.3	Painting of old structures - with two coats of aluminium/ Synthetic enamel paint during LC period.			
	Rate /1 sqm	1sqm	CSR00181	259
	Rate / 1MT	1MT	CSR00182	8049
27.4	Painting of old structures - with One coat of red oxide and two coats of aluminium paint or synthetic enamel paint during LC period.			
	Rate /1 sqm	1sqm	CSR00183	408
	Rate / 1MT	1MT	CSR00184	12707
28	Paving out and laying of 33KV/11 KV UG cable duly forming the cable trench including excavation of trench 2'X2' filling the trench with excavated earth including transporting of cable etc. complete without construction of trench. / Laying of copper control cables buried in trench or ground and termination.			
28.1	33 KV UG cable	RM	CSR00185	532
28.2	11 KV UG cable	RM	CSR00186	292
28.3	4Corex2.5sqmm	RM	CSR00187	62
28.4	10Corex2.5sqmm	RM	CSR00188	71
29	Erection of Cable Heat Shrunken joints excluding material cost.			
29.1	33 KV cable heat shrunken joint			
29.1.1	up to 185 Sqmm	EA	CSR00189	4384
29.1.2	Above 185 Sqmm	EA	CSR00190	6138
29.2	11 KV cable heat shrunken joint			
29.2.1	Up to 70 Sqmm	EA	CSR00191	1754
29.2.2	95Sqmm to 185Sqmm	EA	CSR00192	2922
29.2.3	Above 185Sqmm	EA	CSR00193	4092
30	11 KV AB cable end termination consisting of 3 phases.	SET	CSR00194	8533
31	Labour charges for erection of 33 or 11 KV C.Ts including all connections.			
31.1	33 KV CTs	EA	CSR00195	415

31.2	11 KV CTs	EA	CSR00196	415
31.3	Erection of 33KV and 11KV CTs including earthing & Jumpering with GI/Copper wire	Each	CSR00215	435
31.4	Erection of 33KV and 11KV CTs including earthing & Jumpering with GI/Copper/MS Flat Earthing	Each	CSR00216	551
31.5	33KV LAs- set(station type)	SET	CSR00197	2491
31.6	11KV LAs- set(station type)	SET	CSR00198	2075
31.7	33 or 11KV Line type LAs	EA	CSR00199	166
32	Labour charges for erection of HT metering cubicle including all connections and earthing as per departmental standards.	EA	CSR00200	1216
33	Labour charges for erection of HT Trivector meter box including all connections and earthing as per departmental standards.	EA	CSR00201	778
34	Labour charges for fixing of tube light fitting for street light	EA	CSR00202	245
35	Labour charges for fixing of MV/SV lamp fitting for street light	EA	CSR00203	270
36	Laying of earth mat/risers including excavation of trenches, welding, fixing lugs, connecting to equipment and refilling trenches using MS flat 75x8mm or 50x8mm.			
36.1	75x8mm	RM	CSR00204	113
36.2	50x8mm	RM	CSR00205	77
37	M & P Division Items			
	Labour charges for testing and repairing of meters and rigging and modification of CT Boxes.			
37.1	Single Phase meter repair and overhauling	Each	CSR00206	43
37.2	Single Phase meter old or new testing	Each	CSR00207	31
37.3	Sealing of Meter bit, including inserting of wire	Each	CSR00208	15
37.4	Winding of trip and close coils including material and without bobbin	Each	CSR00209	1719
37.5	Fixing of 3-Ph LT CT meter at DTR including transport	Each	CSR00210	2417
37.6	Replacement of existing S-Ph meter with H.A meter (all types including infrared(IR) meter) including writing meter change slip and handing over to Section office including transporting from section office to location and back.	Each	CSR00211	114
37.7	Replacement of existing S-Ph meter with H.A meter (all types including infrared(IR) meter) and supply of flexible pipe and PVC pipe including writing meter change slip and handing over to Section office including transporting from section office to location and back.	Each	CSR00212	166

37.8	Replacement of existing 3-Ph meter with H.A meter (all types including infrared(IR) meter) including writing meter change slip and handing over to Section office including transporting from section office to location and back.	Each	CSR00213	173
37.9	Replacement of existing 3-Ph meter with H.A meter (all types including infrared(IR) meter) and supply of flexible pipe and PVC pipe including writing meter change slip and handing over to Section office including transporting from section office to location and back.	Each	CSR00214	240
37.10	Handling, testing, providing of seals with cover, stacking neatly.			
37.10.1	S phase energy meter.	EA	CSR00217	21
37.10.2	3 Phase energy meter	EA	CSR00218	34
37.11	Labour charges for sealing of single phase/3 phase meters including transportation of meter box carton to work spot, unpacking, packing of sealed meters and stocking etc.,complete.			
37.11.1	2 Seals	EA	CSR00219	10
37.11.2	3 Seals	EA	CSR00220	10
37.11.3	4 Seals	EA	CSR00221	10
37.12	Labour charges for sealing of S Phase/ 3 phase energy meters housed in PP box including transportation unpacking and packing and stocking of meter box etc., complete.			
37.12.1	2 Seals	EA	CSR00222	10
37.12.2	3 Seals	EA	CSR00223	10
37.12.3	4 Seals	EA	CSR00224	10
37.12.4	6 Seals	EA	CSR00225	17

37.13	Removing the meter back cover, cleaning the old meter cover, painting the meter top & bottom covers with good approved enamel black paint, cleaning the meter with petrol and oiling to bearings with good 2 in 1 oil (Usha make) refixing the meter in meter cover duly providing new gaskets. Testing and adjustments of the meter as per departmental standards, loading, transporting, and unloading including introducing sealing wire to each meter including replacement of glass wherever necessary.			
37.13.1	Including cost of paint	EA	CSR00226	52
37.13.2	Excluding cost of paint	EA	CSR00227	39
37.14	Removal or fixing of PC coil, CC coil or Disc, cyclometer or terminal block.	EA	CSR00228	7
37.15	Metering arrangement with CTs to 16/25 KVA Agricultural DTRs			
37.15.1	Supply and rigging of meter with country wood of size 1'x1/2', 7/20 finolex wire, bolts and nuts and screws along with lugs. Removing of metallic strip in syntex box, fixing of wooden board suitably, fixing of meter and CT in position including fixing of neutral terminal bolt. Providing of internal wiring duly giving proper connections, opening of internal link in the meter duly providing sealing after testing. (energy meter and box will be supplied by the dept)	EA	CSR00229	1260
37.15.2	Supply and fixing of 2meters of aluminium cable, 05m of 3/20 copper wire, 2 sets of clamps with bolts and nuts and misc items like insulation tapes, screws etc., including labour charges for fixing of box and transport charges including loading and unloading.	EA	CSR00230	581
37.15.3	do. with 4 sets of clamps	EA	CSR00231	679
37.16	HT metering wiring including pipes, bends and wires including cost of pipes, bends and wires	LS	CSR00232	3652
	Labour for sealing of LTCT operated Electronic 3-Ph 200/5A, 125/5 & 50/5A Meters, remove the packing from large cases and open the test block cover, opening the current screws and re fixing the test block and inserting sealing wire in the hole and fixing the numbered pastic seal (8 seals) and entering the details into record including stacking and handling.	Each		70
	Labour charges for survey Report of elctronic S-Phase Energy Meter entering the details of the S.R.Meter into Record	Each		6

	Labour charges for survey Report of electronic 3-Phase Energy Meter entering the details of the S.R.Meter into Record	Each		6
38	Transformer division/ SPM Works			
38.1	Loading or Unloading of PTR in to Lorry			
38.1.1	Loading or Unloading of 1.5MVA/ 3MVA / 3.15MVA PTR	EA	CSR00233	5810
38.1.2	Loading or Unloading of 5MVA PTR	EA	CSR00234	8982
38.1.3	Loading or Unloading of 8MVA PTR	EA	CSR00235	11606
38.1.4	Loading or Unloading of 10MVA	EA	CSR00236	14112
38.1.5	Loading or Unloading of 12.5MVA	EA	CSR00237	15682
38.2	Dragging of PTR on ground			
38.2.1	Dragging of 1.5MVA/3MVA/3.15MVA/5MVA PTR	FT	CSR00238	552
38.2.2	Dragging of 8MVA/10 MVA PTR	FT	CSR00239	630
38.3	Assembling or Dismantling of conservator tank, radiators, vent pipe and other accessories of PTR			
38.3.1	1.5MVA PTR to 5MVA PTR	EA	CSR00240	5916
38.3.2	8MVA PTR to 12.5MVA PTR	EA	CSR00241	7260
38.4	Top up/ removal of Transformer Oil into Conservator tank Radiators and other accessories			
38.4.1	1.5MVA PTR to 5MVA PTR	EA	CSR00242	3161
38.4.2	8MVA PTR to 12.5MVA PTR	EA	CSR00243	3659
38.5	Labour for opening of the top cover of CSP Transformer by cutting with grinder and welding/ fixing with bolts and nuts of the top cover for various capacities of Distribution transformers ie.,63 KVA,100KVA 250 KVA and 500 KVA at SPM shed inclusive of cost of welding electrodes, cost of bolts and nuts and drilling of holes	EA	CSR00244	2987
38.6	Labour charges for reclamation of used transformer oil at MRT shed	Kilo Litre	CSR00245	8300
38.7	Providing of MS vent pipe with diaphragm to the top cover of the D.Tr. The vent Pipe consists of 50mm dia, 4mm thick copper foil should be fixed between flange of the Nipple and 180 bend. Wire gauge protection should be provided at the end of the bend Duly providing flange	EA	CSR00246	433
38.8	Providing of Labour charges for Turning Power Transformer on the plinth for 180/90 deg by using rail poles, jackies & Chain blocks upto 10MVA.	Each	CSR00343	3026
38.9	Raising /Lowering the Power Transformers up to 10MVA Capacity	Each	CSR00344	3329

38.1	Labour charges for dragging of DTRs from stacking area, SPM shed to testing platform and back of all capacities upto 315KVA only for departmental repaired units	Each	CSR00396	151
38.11	Dragging of Unserviceble Survey Reported DTRs into SPM and after opening, dragging the units from SPM to outside			
38.11.1	Single Phase DTRs (10, 15 KVA)	Each	CSR00397	37
38.11.2	3 Phase DTRs (16, 25,40 KVA)	Each	CSR00398	37
38.11.3	3 Phase DTRs (63, 100 KVA)	Each	CSR00399	55
38.11.4	3 Phase DTRs (160, 250 KVA)	Each	CSR00400	73
38.12	Dragging of Unserviceble Survey Reported Instrument Transformers into SPM and after opening, dragging the units from SPM to outside			
38.12.1	11 KV Metering Cubilcle	Each	CSR00401	37
38.12.2	11 KV Potential Transformer	Each	CSR00402	37
38.12.3	33 KV Potential Transformer (1-Ph Type)	Each Lim	CSR00403	37
38.12.4	33 KV Potential Transformer (3-Ph Type)	Each	CSR00404	46
38.12.5	11 KV / 33 KV CTs	Each	CSR00405	37
38.13	Labour charges for loading of scrap from SPM Shed unloading at burning site, burning collection of burnt scrap, tying into bundles, loading into vehicle for weighing the vehicle, unloading the materials from vehicle at Stores and stocking in Stores Godown as directed.	MT	CSR00406	1664
	FABRICATION OF LINE MATERIALS			
39	CUTTING CHARGES			
39.1	60 lbs. Rail poles	EA	CSR00247	63
39.2	90 lbs. Rail poles	EA	CSR00248	98
39.3	105 lbs. Rail poles	EA	CSR00249	98
39.4	R.S. Joists of various sizes	EA	CSR00250	50
39.5	M.S. Channels of size 75 x 40 mm. and 80 x 40 mm	EA	CSR00251	17
39.6	M.S. Channels of size 100 x 50 mm. and 125 x 65 mm	EA	CSR00252	18
39.7	M.S. Channels of size 150 x 75 mm. and above	EA	CSR00253	26
39.8	M.S. Angles of sizes 50 x 50 x 6 mm. and 55 x 55 x 5 mm.	EA	CSR00254	10
39.9	M.S. Angles of size 65 x 65 x 6 mm. and above	EA	CSR00255	11
39.1	M.S. Flat 75 x 8 mm.	EA	CSR00256	7
39.11	M.S. Flat of size 50 x 6 mm.	EA	CSR00257	7

39.12	M.S. Flat of width below 50 mm.	EA	CSR00258	7
39.13	M.S. Rounds up to 23 mm.	EA	CSR00259	7
40	DRILLING CHARGES			
40.1	Charges for drilling of holes to various sizes of angle, channel and flats.			
40.1.1	For holes up to 18 mm.	EA	CSR00260	7
40.1.2	For holes above 18 mm	EA	CSR00261	10
40.2	Drilling of holes of various sizes to R.S. Joists and Rail poles with ratchet or hand Drilling machine:			
40.2.1	For R.S. Joists	EA	CSR00262	11
40.2.2	For 60 lbs. Rail poles	EA	CSR00263	13
40.2.3	For 90 lbs. Rail poles	EA	CSR00264	14
40.3	Drilling of holes of various sizes to R.S. Joists or Rails poles using power drilling Machine:.			
40.3.1	For R.S. Joists	EA	CSR00265	10
40.3.2	For 60 lbs. Rail poles	EA	CSR00266	11
40.3.3	For 90 lbs. And 120 lbs Rail	EA	CSR00267	13
41	FABRICATION CHARGES			
41.1	33 KV "V" Cross arms with 100x50 mm MS Channel 2.08mtrs(6'.10") – Weight of the materials=19.0 Kg	EA	CSR00268	263
41.2	11KV "V" Cross arms .			
41.2.1	With 75x40 mm M.S. Channel . Weight of the materials = 9 Kgs.(with 4 nos 50x50x6 packing plates are welded)	EA	CSR00269	219
41.2.2	With 65x65x6mm M.S. Angle – . Weight of the materials =8.2 Kgs	EA	CSR00270	170
41.3	LT 3.Phase 4 Wire Cross arms.			
41.3.1	With 50x50x6mm M.S. Angle(3'.8") . Weight of the materials = 5.75 Kgs.	EA	CSR00271	97
41.3.2	With 65x65x6mm M.S. Angle (3'.8") – Weight of the materials = 7 Kgs	EA	CSR00272	97
41.4	LT 3.Phase 5 Wire Cross arms .			
41.4.1	With 50x50x6mm M.S. Angle(4'.5")– Weight of the materials = 7.3 Kgs	EA	CSR00273	101
41.4.2	With 65x65x6mm M.S. Angle (4'.5") – Weight of the materials = 9.6 Kgs	EA	CSR00274	101
41.5	LT S.Phase 3 Wire Cross arms with 50x50x6mm M.S.Angle (2'.5") = Weight of the materials = 4.2 Kgs.	EA	CSR00275	73
41.6	M.S. Stay sets			
41.6.1	11 KV M.S. Stay sets with 20 mm M.S. Rod & Stay Clamps with 100x50mm M.S. Channel . Weight of the materials = 10.3 Kgs	EA	CSR00276	239

41.6.2	M.S. Stay sets with 20 mm M.S. Rod & Stay Clamps with 75 x40mm M.S. Channel . Weight of the materials = 10.2 Kgs.	EA	CSR00277	239
41.6.3	M.S. Stay sets with 16mm M.S. Rod & Stay Clamps with 100x50mm M.S. Channel .Weight of the materials = 8.0 Kgs	EA	CSR00278	192
41.6.4	M.S. Stay sets with 16mm M.S. Rod & Stay Clamps with 75x40xmm M.S. Channel .Weight of the materials = 7.6 Kgs	EA	CSR00279	192
41.6.5	M.S. Stay sets with 16mm M.S. Rod & Stay Clamps with 50x50x6mm M.S. Angle – Weight of the materials = 6.3 Kgs	EA	CSR00280	166
41.7	33KV Top Fitting			
41.7.1	33KV Top Fitting with Clamps with 75x40mm M.S. Channel . Weight of the materials = 6.9 Kgs.	EA	CSR00281	83
41.7.2	33KV Top Fitting with Clamps with 65x65x6mm M.S. angle . Weight of the materials = 6.5 Kgs.	EA	CSR00282	121
41.8	11KV Top Fittings			
41.8.1	11KV Top Fittings with Clamps 65x65x6mm M.S. Angle – Weight of the materials = 4.4 Kgs.	EA	CSR00283	129
41.8.2	11KV Top Fittings with Clamps 50x50x6mm M.S. Angle . Weight of the materials = 3.63Kgs.	EA	CSR00284	106
41.8.3	11KV Special Top Fittings with Clamps (2'.0" Height) 50x50x6mm M.S. Angle – Weight of the materials = 3.6Kgs.	EA	CSR00285	106
41.9	LT Top Fittings with Clamps 50x6mm M.S. Flat – Weight of the materials = 2.4 Kgs.	EA	CSR00286	71
41.10	11KV Tapping Cross arms with (5.6") 100x50mm M.S. Channel – Weight of the materials =13.4 Kgs	EA	CSR00287	133
41.11	11KV Tapping Cross arms with (5.6") 75x40mm M.S.Channel – Weight of the materials = 11.2 Kgs.	EA	CSR00288	195
41.12	33KV Tapping Cross arms with (7'.0") 100x50mm M.S. Channel – Weight of the materials = 16.2 Kgs.	EA	CSR00289	133
41.13	HT/LT Side arms with strut- (7'.6") 75x40mm M.S. Channel, (3'.6") 50x50x6mm M.S. Angle, (7'.6") 50x50x6mm M.S. Angle, (3'.0") 50x50x6mm M.S. Angle – Weight of the materials = 37.600Kgs.	EA	CSR00290	220
41.14	LT Side arms with strut - (5'.6") 50x50x6mm M.S. Angle, (6'.0") 50x50x6mm M.S. Angle – Weight of the materials = 15.600Kgs.	EA	CSR00291	319
41.15	M.S Back Clamps (1'.3")			

41.15.1	With 50x6mm M.S. Flat for 8m/140 Kg Pole – Weight of the materials = 0.84 Kgs.	EA	CSR00292	32
41.15.2	With 50x6mm M.S. Flat for 8m/200 Kg Pole – Weight of the materials = 0.924 Kgs.	EA	CSR00293	32
41.15.3	With 75x8mm M.S. Flat for 9.1m/280 Kg Pole – Weight of the materials = 2.17 Kgs.	EA	CSR00294	34
41.16	M.S. Stay Clamps (1'.1" X 2Nos.)- 50x6mm M.S. Flat – Weight of the materials = 1.640Kgs.			
41.16.1	For 8m/140 Kg Pole – Weight of the materials = 1.38 Kgs.	EA	CSR00295	52
41.16.2	For 8m/200 Kg Pole – Weight of the materials = 1.416 Kgs.	EA	CSR00296	55
41.16.3	For 9.1m/280 Kg Pole – Weight of the materials = 3.71 Kgs.	EA	CSR00297	66
41.17	Pole mounting arrangement for 3.Phase 16/25 KVA DTR'S - (4'.0=2Nos.) 75x40mm M.S. Channel, (5'.0" =1No) 50x50x6mm M.S. Angle, (1'.6"=2Nos.)50x50x6mm M.S. Angle, (1'.1"=2Nos.)50x50x6mm M.S. Flat – Weight of the materials = 26Kgs	SET	CSR00298	480
41.18	D.P. Structures total set- 10' – 2Nos. 100 x 50 MS Channel, 10' .2Nos. 50 x 50x 6 Angle, 3' – 3 Nos. 75 x 40 Channel, 2' – 4Nos. 50 x 6 MS Flat	SET	CSR00299	994
41.19	Spun Pole Clamps			
41.19.1	i) Back Clamps	EA	CSR00300	58
41.19.2	ii) Stay Clamps	EA	CSR00301	47
41.20	Extension Pieces	EA	CSR00302	
41.21	HT/LT Spun Pole mounting- 8' – 100 x 50 Channel, 21' – 65 x 65 Angle, 12' – 75 x 8 MS Flat	SET	CSR00303	671
41.22	AB Switch OFF & ON Base with Clamp	SET	CSR00304	114
41.23	Fixing of Stay clamp set (dummy clamp set) for SPUN poles	Set	CSR00325	59
42	WELDING CHARGES			
42.1	ARC WELDING charges for all steel materials to a length of 25 mm.(1") of weld including cost of power and electrodes.			
42.1.1	Double welding	25mm	CSR00305	21
42.1.2	Single welding	25mm	CSR00306	13

42.2	GAS WELDING charges for all steel materials to a length of 25 mm.(1") of weld including cost of gas	25mm	CSR00307	22
43	GAS CUTTING	25mm	CSR00308	11
44	Labour charges for erection / fixing of heavy steel structures, like M+3, M+6, M+9 and M+12 towers , Trusses erecting in position and fixing by using chain pulley blocks, Derek pole arrangements and cranes etc., complete in position	1MT	CSR00309	12947
44.1	M+3 Tower Light(2.02MT)	1 No	CSR00310	26154
44.2	M+3 Tower Heavy(2.4MT)	1 No	CSR00311	31075
44.3	M+6 Tower Light(2.4MT)	1 No	CSR00312	31075
44.4	M+6 Tower Heavy(2.8MT)	1 No	CSR00313	36253
44.5	M+9 Tower Light(2.8MT)	1 No	CSR00314	36253
44.6	M+9 Tower Heavy(3.4MT)	1 No	CSR00315	44022
44.7	M+12 Tower Light(3.2MT)	1 No	CSR00316	41434
44.8	M+12 Tower Heavy(4MT)	1 No	CSR00317	51790
45	Providing of trenchless digging with HDD (Horizontal Directional Drilling) method for laying & installation of HT or LT lines using XLPE UG Cables			
45.1	33KV 400 sqmm	RM	CSR00318	1339
45.2	11KV 300 sqmm	RM	CSR00319	1194
45.3	11KV 185 sqmm	RM	CSR00320	1055
	Other Items			
46.1	Cleaning and Overhauling of Defective LTTVR Meters received from the Field(Cleaning of LTTVR PP Box by blowing the air with blower, cleaning the dust, dirt and cleaning the web formed inside the PP Box CT chamber and meter chamber, cleaning with surf water and replacement of rusted screws on TTB and tightening the screws if necessary).	Each	CSR00407	144
46.2	Erection, Testing and Commissioning of new 11KV PT as per the Technical specification. (1 No 3-Ph PT)	Each	CSR00345	5414
46.2.1	Erection and Commissioning of new 11KV PT as per the Technical specification. (1 No 3-Ph PT)	Each		
46.3	Erection, Testing and Commissioning of new 33KV PTs as per the Technical specification. (set of 3 Nos. S-Ph PTs)	set / each	CSR00346	5414
46.3.1	Erection and Commissioning of new 33KV PTs as per the Technical specification. (set of 3 Nos. S-Ph PTs)	set / each		
46.4	Erection of 105 lb Rail poles 3 Mt. Long for mounting of PTR on plinth	Each	CSR00347	375
46.5	Erection of 33KV post type/ solid core insulators	Each	CSR00348	357
46.6	Erection of 11KV post type/ solid core insulators	Each	CSR00349	179
46.7	Fixing of Aluminium T-Clamps / AB Switch Pad clamps/ Bus Bar clamps	Each	CSR00350	30

46.8	Connecting body of equipment structures to earth pits by earth mat with 50x6mm MS Flat (raisers) including welding , bending or connections per RMT	RMT	CSR00351	71
46.9	Connecting of neutral of PTR to earth flat with 50*6 mm copper flexible jumpers using lugs and Bolt & Nut etc.	Each jumper	CSR00352	71
46.10	Laying of control cables of all sizes (from 2 core, 2.5 /4.0sqmm to 12 core, 2.5/4.0sqmm , LT Power cables , both copper and aluminum in cable trenches including cost of suitable metallic cable glands with rubber lining. Note: This includes running of cables in control room where cables are run on cable racks in cable duct or in already excavated trench.			
46.10.1	Control cables from 2 core. 2.5 /4.0sqmm to 12 core, 2.5/4.0sqmm	RMT	CSR00353	17
46.10.2	LT Power cables up to 50 Sqmm	RMT	CSR00354	24
46.10.3	LT Power cables above 50 Sqmm	RMT	CSR00355	31
46.12	Cable terminations to the switchgear, Marshalling boxes /Panel terminal blocks/control & relay panels, LTAC panel including providing suitable ferrules and lugs as per specification (including cost of ferrules and lugs)			
46.12.1	2.5 sqmm Copper cable with copper lugs each core at both ends.	Each	CSR00356	52
46.12.2	LT Power cables up to 50 Sqmm with copper/ Aluminium lugs each core at both ends.	Each	CSR00357	123
46.13	LT Power cables above 50 Sqmm with Aluminium lugs each core at both ends.	Each	CSR00358	224
46.14	Erection of 24 V DC Battery Charger with batteries	Each	CSR00359	461
46.15	Erection of 24 V DC Battery Charger	Each	CSR00360	151
46.16	Erection of 24 V DC Batteries (2 Nos 12 V batteries)	Each	CSR00361	310
46.17	Erection of 48 V DC Battery Charger with batteries	Each	CSR00362	928
46.18	Erection of LT AC Panel / RTCC Panel / RTU Panel in Control Room duly mounting them on channels and grouting them with foundation Bolts & nuts	Each	CSR00363	4431
46.19	Erection of 33 KV Twin Control & Relay panel in Control Room duly mounting them on channels and grouting them with foundation	Each	CSR00364	4431
46.2	Erection of 220 V, 200 Ah/ 80 Ah maintenance free battery incomplete shape fit for charging.	set	CSR00365	5627
46.21	Erection of 220 V, 200 Ah / 80Ah battery charger	each	CSR00366	5772
46.22	Erection of Sand / water Buckets 9 litres capacity (1 No stand with 4 Nos buckets)	Set	CSR00367	117
46.23	Erection of CO2 Cylinders 5 Kg including transport loading and unloading	Nos.	CSR00368	66

46.24	Labour charges for erection of 1/3 arrangement switch and jumpering	Nos	CSR00369	1255
46.25	Labour charges for erection of 1/1 arrangement switch and jumpering	Nos	CSR00370	1255
46.26	Providing of 2 Nos. earths for each SS with Rail pole 90 lb rail poles of each minimum of 14 mts length (jointing 2 Nos 7 mts rail poles) for earthing duly drilling of bore well pneumatic compressor of bore 6 1/2 " dia suitable for 6" M.S.casing pipe including cost of T & P and labour and watering arrangement for improving earth resistance and filling the earth pit with Bentonite Powder including back filling, cement collar of size 600mm dia and 600 mm high as per departmental standards, including cost of all materials, labour etc. complete.	Each	CSR00371	12775
46.27	Fabrication, welding & erection of structural supports (BF beams 150x150 mm & drilling holes with machine) each 8/8.5/9.0Mtrs in length (As per the directions of the Engineer-In-charge), Structural Members (M.S.Channel 100 x 50mm, MS angle 65X65X6 mm) and seating channels as per relevant Indian standard	MT	CSR00372	6472
46.28	Erection of Ladder Type Perforated Cable Trays			
46.29	300 x 50 x 2mm	RM	CSR00373	234
46.3	450 x 50 x 2 mm	RM	CSR00374	309
46.31	DC Annunciation Board for Out Door Sub- Stations Erection of Annunciation Board in the control room on M.S.Angle stand of 1.25x1.25 M, & height 1.25M (M.S.angle 50 x 50 X 6 mm) with 33KV & 11KV Bus PT Volt Meter (Voltmeter shall have selection option to read all the three phase voltages). with multi tone electronic hooter (24 Volts DC)	Each	CSR00375	1598
46.32	Erection of Synthetic Rubber Mats as Per IS 15652 in control room 2.5 mm thick	Sqmtr	CSR00376	7
46.33	Fixing of chequered plates for closing the cable duct including drilling, welding, grouting , holes etc and painting with two coats synthetic enamel paint over a coat of red oxide	Kg	CSR00377	59
46.34	33KV GIS Indoor panel			
46.34.1	Erection, testing and commissioning of Indoor 33KV GIS (3 position) switchgear for incoming cubicles & transformer incoming cubicles: 33KV, 1250A 25KA for 3Sec with control and relay panel indoor GIS switchgear vacuum type circuit breakers of APEPDCL approved make for incommers, transformer control cubicles, feeder cubicles complete with copper bus bar connectors/control cables, glands, CTs(class 5p10 & 0.2s)& CR Panels with IED relays, bus bars and electrical equipment fitted with electrical wiring, annunciation board with digital 3 1/2 digit ammeter & voltmeter and electronic TVR meter make L&T /Secure with mod bus facility (RS 232 port) and MRI			

	compability with class of accuracy 0.2S and numeric relays of Asidha/ABB/Areva/ L&T/ Siemens/Schneider as per section 5 of technical specification.			
46.34. 2	Feeder cubicles with IED relay	Each	CSR00378	79162
46.34. 3	Transformer cubicles with IED relay	Each	CSR00379	79162
46.34. 4	Bus coupler with bus raiser cubicles with IED relay	Each	CSR00380	79162
46.34. 5	33 KV PT of ratio 33KV/SQRT(3)/110*SQRT(3) of 0.2 class, Burden 25 VA	Each	CSR00381	6859
46.35	Erection , testing and commissioning of Indoor 33KV switchgear 33KV, 25KA 1250A Vaccum type indoor switchgear with drawout type type circuit breakers of APEPDCL approved make for incommers, transformer control cubicles, feeder cubicles complete with aluminium bus bar connectors/control cables, glands, CTs& CR Panels with relays (class 0.2s), bus bars and electrical equipment fitted with electrical wiring, annunciation board with digital 3 1/2 digit ammeter & voltmeter and electronic TVR meter make L&T or Secure with mod bus facility (RS 232 port) and MRI compability with class of accuracy 0.5 and numeric relays of ABB/Areva/ L&T/ Siemens as per section 5 of technical specification.			
46.35. 1	For feeder cubicles	Each	CSR00382	11422
46.35. 2	For Transformer cubicles	Each	CSR00383	11422
46.35. 3	For Bus coupler cubicles	Each	CSR00384	11422
46.35. 4	Erection, testing and commissioning of 33 KV PTs of ratio 33KV/SQRT(3)/110*SQRT(3) of 0.2 class, Burden 25 VA	Each	CSR00385	3366

46.36	Erection , testing and commissioning of Indoor 11KV switchgear 11KV, 25KA 1250A Vacuum type indoor switchgear with drawout type circuit breakers of APEPDCL approved make for transformer control cubicles, feeder cubicles and cubicles complete with aluminium busbar connectors/control cables, glands, CTs & CR Panels with relays (class 0.2s) and electrical equipment fitted with electrical wiring annunciation board with digital 3 1/2 digit ammeter & voltmeter and electronic TVR meter make L&T or Secure with mod bus facility (RS 232 port) and MRI compatibility with class of accuracy 0.5 and numeric relays ABB/Areva/ L&T/ Siemens as per section 5 of technical specification.			
46.36.1	For feeder cubicles	Each	CSR00386	8586
46.36.2	For Transformer cubicles	Each	CSR00387	8586
46.36.3	For Bus coupler cubicles	Each	CSR00388	8586
46.36.4	Erection, testing and commissioning of 11 KV 3- Phase PTs of ratio 11 KV/110Volts, Class 0.2, Burden 100 VA	Each	CSR00389	1050
46.37	Erection , testing and commissioning of Indoor 11KV switchgear 11KV, 25KA 1250A Vacuum type indoor switchgear with drawout type circuit breakers of APEPDCL approved make for transformer control cubicles, feeder cubicles and cubicles complete with aluminium busbar connectors/control cables, glands, CTs & CR Panels with relays (class 0.2s) and electrical equipment fitted with electrical wiring annunciation board with digital 3 1/2 digit ammeter & voltmeter and electronic TVR meter make L&T or Secure with mod bus facility (RS 232 port) and MRI compability with class of accuracy 0.5 and numeric relays ABB/Areva/ L&T/ Siemens as per section 5 of technical specification.			
46.37.1	Labour Charges for erection of Galvanised TC, TD, BD and cantilever towers	MT	CSR00390	4988
46.37.2	Labour Charges for erection of Galvanised TC, TD, BD and cantilever towers under shutdown conditions	MT	CSR00391	7483
46.38	Formation of 33KV BUS at EHT SS-Hoisting of Insulators and hardware, stretching the conductor and stringing of 33 kV bus comprising of three phases with Twin Zebra/Moose conductor to a tension of 900kgs including fixing of spacer clamps.(The maximum length or up to a length of bus section of 20m)	Bus Section	CSR00392	12474
46.39	Erection of Marshalling Box	Each	CSR00393	723
46.40	Erection, Wiring, Commissioning of 11KVAuto Reclosures / Sectionalizers			

46.40.1	Erection, Testing & Commissioning of Auto - Recloser (communicable) including galvanised mounting frame for mounting to Spun Poles, cables for incoming and outgoing, Terminal connectors for connecting incoming and outgoing cables, control cable etc.,	EA	CSR00394	52704
46.40.2	Erection, Testing & Commissioning of sectionaliser (SCADA Compatible) including galvanised mounting frame for mounting to Spun Poles, cables for incoming and outgoing, Terminal connectors for connecting incoming and outgoing cables, control cable etc.,	EA	CSR00395	89071
46.41	Numbering of Poles/ Providing of code numbers to Transformers with paint			
46.41.1	Numbering of poles (two coats) including painting black back ground white lettering per	Each pole	CSR00408	46
46.41.2	Numbering of Agricultural services with name of the consumer, service No. and load.	Each pole	CSR00409	75
46.41.3	Providing code numbers to transformers / structures including cost of paint.	Each pole	CSR00410	75
	Service wire Reconnection/Removal			
46.42	Service wire removal / re erection	Each	CSR00411	46
46.43	UG CABLE RATES			
46.43.1	Excavation of cable trench of width 0.50mts X and 1.20 mtrs depth from road level and filling with sand for 50 mm including seigniorage charges for laying of 33 KV/11 KV XLPE UG Cables wherever required and covering the cable with a sand layer of 250mm above, providing of protective cover of shabed stones (0.3x0.5m) with 2 inch thickness over the sand and backfilling the trench with earth, leveling removing the debris if any excluding laying of 33/11 KV XLPE UG Cables.	Rmt	CSR00412	688
46.43.2	Excavation of cable trench of width 0.50mts X and 1.00 mtrs depth from road level and filling with sand for 50 mm including seigniorage charges for laying of 33 KV/11 KV XLPE UG Cables wherever required and covering the cable with a sand layer of 250mm above, providing of protective cover of shabed stones (0.3x0.5m) with 2 inch thickness over the sand and backfilling the trench with earth, leveling removing the debris if any excluding laying of 33/11 KV XLPE UG Cables.	Rmt	CSR00413	653
46.44	Excavation of Cable Trench for Laying of UG Cables and back filling after laying of Cables from 1ft x 1ft for Control Cables to 0.5m x 1.0m / 0.6m x 1.2m for UG Cables in Substation switchyard			

46.44. 1	0.3x 0.3 m for Control Cables	RM	CSR00414	32
46.44. 2	0.45 x 0.45 m for Control/ Power Cables	RM	CSR00415	74
46.45	33KV, 3Core, XLPE Aluminium UG cable works			
46.45. 1	Laying and testing of 33 KV, 3core, 400 Sq.mm XLPE aluminium UG cable in the Open cable trench as per the specification and cable separation with machine cut bricks horizontally for every 3 meters as directed by the Engineer in Charge. This includes all costs of labour, plant and machinery required for laying, cost of machine cut bricks, warning tapes & laying, transportation of all materials from Section Office to work spot, loading and unloading. Excavation of trenches, supply of sand, sand filling and back filling measured separately. Road restoration to original condition is measured separately.	Mtr	CSR00416	96
46.45. 2	Laying and testing of 33 KV, 3core, 400 Sq.mm XLPE aluminium UG cable in the cable trench as per the specification through DWC, HDPE pipes wherever required depth is not achieved, Road crossings as per the approval of Engineer In- charge. This includes all costs of labour, plant and machinery required for laying, transportation of all materials from Section Office to work spot, loading and unloading. Excavation, supply of sand, sand filling and back filling measured separately. Road restoration to original conditions is measured separately.	Mtr	CSR00417	101
46.45. 3	Laying and testing of the 33 KV, 3core, 400 Sq.mm XLPE aluminium UG cable in the cable duct as per the specification in layers by removing & relaying of slabs. This includes all costs of labour, plant and machinery required for laying, welding of GI channel pieces, transportation of all materials from Section Office to work spot, loading and unloading. The rate shall include for cost of necessary plastering/painting, consumables.	Mtr	CSR00418	101
46.45. 4	Laying and testing of 33 KV, 3core, 400 Sq.mm XLPE aluminium UG Cable and Providing of DWC, HDPE pipes using Horizontal Directional Drilling Technique as per the specification and approval of Engineer-In- charge. This includes all costs of labour, plant and machinery required for laying, transportation of all materials from Section Office to work spot, loading and unloading	Mtr	CSR00419	961
46.46	Laying of Cable up to ground level from 33 KV Feeder Outgoing Isolator.			
46.46. 1	Erection of 6 mtrs long G.I. joist of size 175mm x 75 mm including the cost of excavation, concretings, transportation of all materials from Section Office to work spot, loading and unloading.	Each	CSR00420	3735

46.46. 2	Laying and testing of 33 KV, 3 core 400 Sq.mm XLPE Aluminium UG cable through HDPE pipe from 33 KV outgoing Isolator to starting point of cable trench, laying the cable through the pipe. This cost includes all costs of labour, testing, transportation of all materials from Section Office to work spot, loading and unloading.	Mtr	CSR00421	101
46.46. 3	Making Straight Through Cable jointing for 33 KV, 3core, 400 Sq.mm, XLPE armoured cable with heat shrinkable cable jointing kits. This cost includes all costs of labour, testing, transportation of all materials from Section Office to work spot, loading and unloading.	Each	CSR00422	7943
46.47	Erection and Testing of 33 KV RMUs			
46.47. 1	Erection and testing of 33 KV motorized, SCADA and DAS Compatible, Non Extensible RMU on mounting structure with all accessories as per specification. This includes Cost of GI nuts, bolts, washers, erection and testing charges, transportation of all materials from Section Office to work spot, loading and unloading.	Each	CSR00423	55455
46.48	Laying and Testing of 11KV, 3Core, 300 Sq.mm,XLPE aluminium UG cable			
46.48. 1	Laying and Testing of 300 Sq.mm, 11KV, 3Core, XLPE aluminium UG cable in the Open Cable trench as per the specification and separation with machine cut bricks horizontally for every 3 meters as per the specification. This includes the cost of laying of cable, cable warning tapes, cost of machine cut bricks & laying, transportation of all materials from Section Office to work spot, loading and unloading.	Mtr	CSR00424	54
46.48. 2	Laying and Testing of 300 Sq.mm, 11KV, 3Core, XLPE aluminium UG cable using Horizontal Directional Drilling Technique as per the specification and as per the approval of the Engineer In-charge. This includes the cost of laying of cable, cable warning tapes, drilling including the cost of excavation and back filling, transportation of all materials from Section Office to work spot, loading and unloading.	Mtr	CSR00425	945
46.48. 3	Laying and Testing of 300 Sq.mm, 11KV, 3Core, XLPE aluminium UG cable in the cable trench through HDPE, DWC pipes wherever required depth is not available as per the specification and as per the approval of the Engineer In-charge. This includes the cost of laying of cable, pipe, cable warning tapes, transportation of all materials from Section Office to work spot, loading and unloading.	Mtr	CSR00426	73
46.48. 4	Laying and testing of 300 Sq.mm, 11KV, 3Core, XLPE aluminium UG cable in the existing utilities duct by removing & relaying of slabs as per the specification. This includes the cost of fixing of GI channel supports as per the drawing, laying of cable, necessary plastering, laying cable warning tapes, transportation of all materials from Section Office to work spot, loading and unloading.	Mtr	CSR00427	108

46.49	Laying and testing of Cable up to ground level from 11 KV Feeder outgoing Isolator			
46.49.1	Erection of 6 meters long GI Joist of Size 175 mm x 75mm including the cost of excavation, concreting, fixing of suitable GI Clamps, nuts, bolts, washers as per the approved drawing, transportation of all materials from Section Office to work spot, loading and unloading.	Nos	CSR00428	4152
46.49.2	Laying and Testing of 11KV, 3 Core, 300 Sq.mm, XLPE aluminium UG cable through HDPE pipe from 11KV Feeder Outgoing Isolator to starting point of Cable trench as per the drawing, including the cost of laying the Cable through the Pipe, giving Jumpers from Isolator to Cable head with suitable connecting clamps & lugs, transportation of all materials from Section Office to work spot, loading and unloading.	Mtr	CSR00429	68
46.5	Laying and Testing of Cable from RMU outgoing to DTR HV bushings			
46.50.1	Laying and Testing of 3 Core, 185 Sq.mm, 11 KV, XLPE aluminium UG cable from RMU Outgoing Point to DTR HV Bushings in the cable trench and separation with machine cut bricks horizontally for every 3 meters as per the specification. This includes the cost of laying of cable, cable warning tapes, transportation of all materials from Section Office to work spot, loading and unloading.	Mtr	CSR00430	60
46.50.2	Laying and Testing of 3 Core, 185 Sq.mm, 11 KV, XLPE aluminium UG cable from RMU Outgoing Point to DTR HV Bushings in the cable trench through HDPE, DWC pipes wherever required depth is not available as per the specification. This includes the cost of laying of cable through DWC pipes where ever required as per the specification, cable warning tapes, GI Fixing Clamps, transportation of all materials from Section Office to work spot, loading and unloading.	Mtr	CSR00431	73
46.50.3	Laying and Testing of 3 Core, 185 Sq.mm, 11 KV XLPE aluminium UG Cable from RMU Outgoing to DTR HV Bushings in the existing utilities duct by removing & relaying of slabs as per the specification. This includes the cost of laying of cable, fixing of GI channel pieces as per the drawing, necessary plastering, laying cable warning tapes, transportation of all materials from Section Office to work spot, loading and unloading.	Mtr	CSR00432	66
46.51	Laying and Testing of Cable from RMU Outgoing to HT Service Metering Cubical Point			

46.51. 1	Laying and of testing of 3 Core, 185 Sq.mm, 11KV, XLPE aluminium UG cable from RMU Outgoing to HT Service Metering Point in the Open Cable trench and separation with machine cut bricks horizontally for every 3 meters as per the specification. This includes the cost of laying of cable, cable warning tapes, GI fixing Clamps, transportation of all materials from Section Office to work spot, loading and unloading.	Mtr	CSR00433	60
46.51. 2	Laying and testing of 3 Core, 185 Sq.mm, 11 KV, XLPE aluminium UG cable from one RMU Outgoing Point to HT Service Metering Point in the cable trench through HDPE, DWC pipes wherever required depth is not available as per the specification. This includes the cost of laying of cable through DWC pipes where ever required as per the specification, cable warning tapes, Fixing Clamps, transportation of all materials from Section Office to work spot, loading and unloading.	Mtr	CSR00434	73
46.51. 3	Laying and testing of 3 Core, 185 Sq.mm, 11 KV XLPE aluminium UG Cable in the existing utilities duct by removing & relaying of slabs as per the specification. This includes the cost of fixing of GI channel pieces as per the drawing, laying of cable, necessary plastering, laying cable warning tapes, transportation of all materials from Section Office to work spot, loading and unloading.	Mtr	CSR00435	101
46.52	Jointing, testing of 11 KV Heat Shrinkable Straight Through Kits Suitable for different sizes of 11 KV, XLPE aluminium UG Cable. This includes cost of labour, testing, transportation of all materials from Section Office to work spot, loading and unloading.			
46.52. 1	300 Sq.mm	Each	CSR00436	5294
46.52. 2	185 Sq.mm	Each	CSR00437	3782
46.52. 3	11KV end kit termination joint with heat shrinkable (Any size of the cable)	Each	CSR00507	1070
46.52. 4	33KV end kit termination joint with heat shrinkable (Any size of the cable)	Each	CSR00508	1605
46.53	Erection and testing of 11 KV motorized, SCADA and DAS Compatible, Non Extensible RMU with mounting structure with all accessories as per specification. This includes Fixing, erection & testing charges, transportation of all materials from Section Office to work spot, loading and unloading.			
46.53. 1	5 Way RMU (2 load break switches and 3 Circuit Breaker)	Each	CSR00438	28866
46.53. 2	3 Way RMU (2 load break switches and 1 Circuit Breaker)	Each	CSR00439	18276

46.54	Fixing of elastomeric insulating bushing boots for HV Bushings of DTR to be used in conjunction with terminations to enhance the phase-to-phase and phase-to-earth insulation and to protect against flashover or surges induced surges induced in switchgear & transformer boxes as per the specification. This cost includes fixing, transportation of all materials from Section Office to work spot, loading and unloading.			
46.54.1	500 KVA	Each	CSR00440	75
46.54.2	315 KVA	Each	CSR00441	75
46.55	Fixing of elastomeric insulating bushing boots for LV Bushings of DTR to be used in conjunction with terminations to enhance the phase-to-phase and phase-to-earth insulation and to protect against flashover or surges induced in transformer as per the specification. This includes fixing, transportation of all materials from Section Office to work spot, loading and unloading.			
46.55.1	500 KVA	Each	CSR00442	60
46.55.2	315 KVA	Each	CSR00443	60
46.56	Compact Prefabricated Sub-Station of 11KV/433 V, 1000KVA Oil Cooled Transformer including HT and LT Panels.			
46.56.1	Erection & testing of Compact Prefabricated Sub Station of 11KV/433 V, 1000KVA Oil Cooled Transformer of Cable Entry Type including 3way RMU in HT Side and One number Incoming ACB and Ten Numbers Outgoing MCCBs in LT Side including including internal earthing complete as per the specification. This includes cost of erection, testing, cost of Foundation materials and erection, transportation of all materials from Section Office to work spot, loading and unloading.	Each	CSR00444	17349
46.57	Erection of DWC, HDPE pipes suitable for insertion of of 11KV, LT, 31/2 Core,300 Sq.mm, XLPE aluminium UG cables. This includes cost of erection, transportation of all materials from Section Office to work spot, loading and unloading.	Mtr.	CSR00445	15
46.58	Fixing and testing of Three phase, 4 wire, LT, CT Operated Electronic Trivector Meters of class 0.5S with 4Each CTs of class 0.5S, 600/5 Amps with AMR compatible and built in GSM/GPRS modem in PP Box for metering on LV side of Distribution Transformer Suitable for 315 KVA Distribution Transformer as per the specification. This includes the cost of fixing meter with G.I clamps, Bolts & Nuts, testing, transportation of all materials from Section Office to work spot, loading and unloading.	Each	CSR00446	1917

46.59	Laying and testing of different sizes of 3 1/2 Core, 11KV, LT, XLPE aluminium UG cable as per the specification in the Open Cable trench and separation with machine cut bricks horizontally for every 3 meters as per the specification, from Feeder Pillar Box to bottom of the Service Pillar Box or to the service pillar boxes erected on plinths. This includes the cost of laying of cable, cable warning tapes, cost of machine cut bricks & laying, testing, transportation of all materials from Section Office to work spot, loading and unloading.			
46.59.1	300 Sq.mm	Mtr	CSR00447	37
46.59.2	120 Sq.mm	Mtr	CSR00448	37
46.6	Laying and testing of different sizes of 3 1/2 Core, 11 KV, LT, XLPE aluminium UG cables as per the specification in the existing utilities duct by removing & relaying of slabs as per the specification and as per the approval of the Engineer In-charge from Feeder Pillar Box to bottom of the Service Pillar Box. This includes the cost laying of cable through HDPE pipes where ever required as per the specification, laying of cable warning tapes, testing, transportation of all materials from Section Office to work spot, loading and unloading.			
46.60.1	300 Sq mm	Mtr	CSR00449	37
46.60.2	120 Sq mm	Mtr	CSR00450	37
46.61	Laying and testing of single core, 630 Sq.mm, 11KV, LT, XLPE aluminium armoured UG cable through HDPE pipe from LT bushings of DTR to Feeder Pillar Box through LT, CT meter box as per the drawing, including the cost laying of the Cable through the Pipe, excavation, fixing of Cleats, testing, transportation of all materials from Section Office to work spot, loading and unloading.	Mtr	CSR00451	41
46.62	Erection and Testing of Feeder Pillar Box complete as per the specification including the Cost of Fixing Charges and suitable GI bolts and nuts. FP: One Incoming TP&N 630 Amps MCCB; Four Each Outgoing TP&N 100 Amps MCCB, One Outgoing TP&N 25 Amps MCCB and Provision of space for One Outgoing MCCB. This includes cost of labour towards erection, testing, transportation of all materials from Section Office to work spot, loading and Unloading.	Each	CSR00452	13298
46.63	Erection and Testing of service pillars supports of different types as per the specification complete including the cost of excavation, supply and laying of concrete, and labour for erection of support, transportation of all materials from Section Office to work spot, loading and Unloading.			

46.63. 1	8.0 Mtrs PSCC spun poles	Each	CSR00453	8233
46.63. 2	7.0 Mtrs GI joist of size 175*75 mm	Each	CSR00454	6415
46.64	Erection and Testing of Service Pillar Box including fixing of G I clamps etc.,on the foundation/supporting structure as per the field requirement as per the specification. This includes cost of labour towards erection, testing, transportation of all materials from Section Office to work spot, loading and unloading.			
46.65	SP-1: One Incoming TP&N 100 Amps MCCB; One Outgoing TP&N 63 Amps MCCB, 100 Amps Open Type Terminal Blocks suitable to give 12 Each Single Phase Services, 2 Each Three Phase services and spare blocks for future release of connection, One Outgoing Circuit suitable to connect 31/2 core XLPE AL. Cable of size 120 sq.mm without protection and 400A Busbar rating.	Each	CSR00455	2257
46.66	SP-2: One Incoming TP&N 100 Amps MCCB, Four Outgoing Circuit suitable to connect 31/2 core XLPE AL. Cable of size 120 sq.mm & 70 Sq.mm through 400A Busbar rating.	Each	CSR00456	2257
46.67	SP-3: Three Phase FRP Distribution Box with 6Each Three Phase Service Connections, 100 amps capacity Ledger and 200amps Busbar	Each	CSR00457	2257
46.68	SP-4: Three Phase FRP Distribution Box with 20Each Single Phase Service Connections, 100 amps capacity Ledger and 200amps Busbar	Each	CSR00458	2257
46.69	Laying and Testing of LT, 11 KV, XLPE, Aluminum Cable of different sizes in Cable trench from Service Pillar box/feeder pillar box to consumer Meter panel board as per the specification including Cost of Laying, testing, transportation of all materials from Section Office to work spot, loading and unloading			
46.69. 1	4 Core 25 Sq.mm	Mtr	CSR00459	17
46.69. 2	4 Core 16 Sq.mm	Mtr	CSR00460	17
46.69. 3	2 Core 10 Sq.mm	Mtr	CSR00461	17
46.69. 4	3 1/2 Core 70 Sq.mm for Street Light	Mtr	CSR00462	25
46.69. 5	2 Core 25 Sq.mm for Street Light	Mtr	CSR00463	17
46.7	Laying and testing of LT, 11 KV, XLPE, Aluminum Cable of different sizes through DWC, HDPE pipes in Cable trench from Service Pillar box/feeder pillar box to consumer Meter panel board. This includes cost of erection, testing, transportation of all materials from Section Office to work spot, loading and unloading.			

46.70. 1	4 Core 25 Sq.mm	Mtr	CSR00464	28
46.70. 2	4 Core 16 Sq.mm	Mtr	CSR00465	25
46.70. 3	2 Core 10 Sq.mm	Mtr	CSR00466	15
46.71	Jointing and testing of 11 KV Heat Shrinkable End Termination Kits of Indoor Type Suitable for different sizes of LT, XLPE Cables. This includes cost of jointing, testing, transportation of all materials from Section Office to work spot, loading and unloading.			
46.71. 1	3 1/2 Core, 300 Sq.mm	Each	CSR00467	937
46.71. 2	3 1/2 Core, 120 Sq.mm	Each	CSR00468	937
46.71. 3	1 Core, 630 Sq.mm	Each	CSR00469	937
46.72	Jointing and testing of 11 KV Heat Shrinkable Straight Through Kits Suitable for different sizes of 3 1/2 Core, LT, XLPE Cables. This includes cost of jointing, testing, transportation of all materials from Section Office to work spot, loading and unloading.			
46.72. 1	300 Sq.mm	Each	CSR00470	937
46.72. 2	120 Sq.mm	Each	CSR00471	937
46.73	Laying and Testing of LT, 11 KV, XLPE, Aluminum Cable of different sizes in Cable trench from Service Pillar box/feeder pillar box to consumer Meter panel board as per the specification. This includes cost of laying, testing, transportation of all materials from Section Office to work spot, loading and			
46.73. 1	4 Core 25 Sq.mm	Mtr	CSR00472	17
46.74	Jointing and testing of complete kit of different sizes suitable for 11 KV, LT, XLPE Aluminum Cable as per the specification. This includes cost of termination, testing, transportation of all materials from Section Office to work spot, loading and unloading.			
46.74. 1	4 Core 25 Sq.mm	Each	CSR00473	330
46.74. 2	4 Core 16 Sq.mm	Each	CSR00474	330
46.74. 3	2 Core 10 Sqmm	Each	CSR00475	165
46.74. 4	3 1/2Core 70 Sq.mm for Street Light	Each	CSR00476	1100
46.74. 5	2 Core 25 Sq.mm for Street Light	Each	CSR00477	165

46.75	Making T joint of the following sizes as per standard it includes making T joint and testing the T joints. This includes cost of jointing, testing, transportation of all materials from Section Office to work spot, loading and unloading			
46.75.1	4 Core 25 Sq.mm	Each	CSR00478	151
46.75.2	4 Core 16 Sq.mm	Each	CSR00479	151
46.75.3	2 Core 10 Sq.mm	Each	CSR00480	151
46.76	Fixing of 250 mm x 200 mm H.T danger notice plate as per Indian Standard specification. This includes cost of erection, transportation of all materials from Section Office to work spot, loading and unloading.	Each	CSR00481	73
46.77	Erection and testing of 3*95+1*70+1*16 sq.mm. LT AB Cable including the accessories as per specification. This includes cost of erection, testing, transportation of all materials from Section Office to work spot, loading and unloading	Mtr	CSR00482	21
46.78	Erection and testing of Three Phase Distribution Box for 6 Connections with suitable Piercing Connector and accessories. This rate includes labour charges for connecting service connections, testing, transportation of all	Each	CSR00483	720
46.79	Erection and testing of Single Phase Distribution Box for 20 Connections with suitable Piercing Connector and accessories. This rate includes labour charges for connecting service connections, testing, transportation of all materials from Section Office to work spot, loading and unloading.	Each	CSR00484	1138
46.80	Optical Fiber Cable for SCADA Communication and Telecom Network. This includes cost of laying, testing, transportation of all materials from Section Office to work spot, loading and unloading			
46.80.1	Laying and Testing of 12 core Optical Fiber Cable through the HDPE Duct for SCADA Communication.	Mtr	CSR00485	5
46.80.2	Laying of 50/42 mm HDPE Duct (including 1 Push Fit Coupler, Spacers, 2 End Plugs and 2 Simple Plugs every 500 meters coil length) for Telecom Network.	Mtr	CSR00486	9
46.80.3	Laying of 160mm DWC Duct (including 1 Coupler with O- Ring every 6 meters straight length) for Telecom Network.	Mtr	CSR00487	15
46.81	CARBON ELECTRODE EARTHING and EARTHING PIT:			

46.81.1	Erection and testing of Eco Friendly maintenance free earthing system comprising of 17.2 mm dia. 3 Mtr. long Carbon Earthing Electrode with 250 microns copper coating. For installation of Earthing Electrode Supply of Pre cast RCC earth pit Chamber (300*300 MM) and making 100 mm diameter bore, 3 mtrs Long, making of earth pit and fixing of earth pit chamber in normal soil as per the specification., including cost of all chambers labour etc, testing, transportation of all materials from Section Office to work spot, loading and unloading complete and excluding the cost of GI Flat.	Nos	CSR00488	4576
46.81.2	Connecting and testing of GI Flat of Size 40x6 mm from RMU/DTR Earth bolt to earth electrodes and two coatings of black bitumen paint to GI Flat complete as per the specification including cost of paint and consumables, connecting and testing, transportation of all materials from Section Office to work spot, loading and unloading.	MT	CSR00489	77
46.81.3	Connecting and testing of GI Flat of Size 25X3 mm from Feeder Pillar box to earth electrodes and two coatings of black bitumen paint complete as per the specification including cost of paint labour and consumables, connecting, testing, transportation of all materials from Section Office to work spot, loading and unloading.	MT	CSR00490	60
46.81.4	Excavation of earth pit, putting cast iron pipe with flange on one end of nominal dia. 50 mm and 2.5 meters long inside the pit and filling the earth pit with Bentonite Powder including back filling, cement collar of size 300mm dia. and 300 mm height as per as per the specification, including cost of all labour etc., transportation of all materials from Section Office to work spot, loading and unloading complete and excluding the cost of GI Flat.	Each	CSR00491	1195
46.82	Erection of GI channel of different sizes wherever required due to field conditions as per the approved drawing by the Engineer in charge. This includes the cost for fabrication and consumables, erection, transportation of all materials from Section Office to work spot, loading and unloading.			
46.82.1	GI Channels - 100 mmX50mm	MT	CSR00492	8887
46.82.2	GI Channels - 75 mmX40mm	MT	CSR00493	8887
46.83	Erection of GI angle of different sizes wherever required due to field conditions as per the approved drawing by the Engineer in charge. This includes the cost for fabrication and consumables, erection, transportation of all materials from Section Office to work spot, loading and unloading			

46.83. 1	GI angle - 50X50X6 mm	MT	CSR00494	8700
46.83. 2	GI angle - 65X65X6 mm	MT	CSR00495	8700
46.84	Erection of GI flat of different sizes wherever required due to field conditions as per the approved drawing by the Engineer in charge. This includes the cost of fabrication and consumables, erection, transportation of all materials from Section Office to work spot, loading and unloading.			
46.84. 1	GI Flat - 50 mm X 6 mm	MT	CSR00496	7874
46.85	Erection of DTR Structure			
46.85. 1	Labour charges for erection of SP Structure (seating arrangement) complete for mounting 3- Ph Transformer including earthing as per departmental standars.	Each	CSR00329	908
46.85. 2	Labour charges for erection of SP Structure (seating arrangement) complete for mounting S- Ph Transformer including earthing as per departmental standards.	Each	CSR00330	606
New items				
47.44	Laying of copper control cables of sizes 4 or 10 core 2.5 Sq.mm. Buried in trenches or ground as per the field condition and arranging cable terminations to the switchgear marshalling boxes, terminal boxes, control and relay panels including providing suitable terminals and lugs wherever necessary.	RMT		
47.44. 1	a) 4 core, 2.5 Sq.mm. Copper Control Cable per RMT.	RMT		37
47.44. 2	b)10 core, 2.5 Sq.mm. Copper Control Cable per RMT.	per set (3 Nos.)		42
47.45	Erection and commissioning of new 33KV Lightning Arresters (Station Type) per set (3 Nos.) as per Technical specification. (As per data sheet -8a)	per set (3 Nos.)		1510
47.46	Erection and commissioning of new 9 KV, 10 KA Metal Oxide lightning arrestors (Station Type) per Set (3Nos.) as per Technical specification.	per 3-Ph PT or 3 Nos. Single PTs		1258
47.47	Erection, Testing and Commissioning of new 11KV or 33KV PT as per the Technical specification.	Each		3579
47.48	Erection of CI Earth electrode of 80 mm dia. and 2.75 Mt. Length in the sub-station as per drawing including pit excavation, betenite powder (1:6) including back filling, cost of the cement caller size 600 dia and 600mm high, including fixing of connection to pipe and cost of conveyance of all materials and labour charges and incidental charges etc., complete. (CI Earth pipe will be supplied by department)	Each		1670

47.49	Connecting body of equipment structures to earth pits by earth mat with 50x6MM MS Flat (raisers) including welding or connections per RMT.	RMT		65
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48. Transport/ conveyance/ Lead charges

1)	The following rates are to be adopted for transport of materials like Steel, RCC Poles, Cement, Packed materials excluding loading and unloading.
2)	However, for transport of conductor drums, transformer oil drums, and fragile materials such as kiosks, L.As, Insulators, Transformers, Meters etc., which occupy more space and less weight, the rates with 20% excess over the following rates for line materials shall be adopted.
3)	Loading and unloading charges are payable extra.
4)	Transport charges in respect of poles up to 5 KM, SSR item 5 may be adopted.

1Km to 35Km			36Km to 70Km			71Km to 105Km		
SAP Service code	Lead in KM	Rate/ MT	SAP Service code	Lead in KM	Rate/ MT	SAP Service code	Lead in KM	Rate/ MT
CTR00001	1	34	CTR00036	36	518	CTR00071	71	927
CTR00002	2	47	CTR00037	37	528	CTR00072	72	939
CTR00003	3	65	CTR00038	38	540	CTR00073	73	951
CTR00004	4	79	CTR00039	39	552	CTR00074	74	963
CTR00005	5	94	CTR00040	40	564	CTR00075	75	975
CTR00006	6	108	CTR00041	41	576	CTR00076	76	987
CTR00007	7	122	CTR00042	42	589	CTR00077	77	997
CTR00008	8	135	CTR00043	43	598	CTR00078	78	1010
CTR00009	9	150	CTR00044	44	611	CTR00079	79	1021
CTR00010	10	165	CTR00045	45	623	CTR00080	80	1034
CTR00011	11	179	CTR00046	46	635	CTR00081	81	1045
CTR00012	12	193	CTR00047	47	647	CTR00082	82	1057
CTR00013	13	207	CTR00048	48	657	CTR00083	83	1068
CTR00014	14	220	CTR00049	49	670	CTR00084	84	1080
CTR00015	15	235	CTR00050	50	681	CTR00085	85	1091
CTR00016	16	249	CTR00051	51	693	CTR00086	86	1104
CTR00017	17	263	CTR00052	52	705	CTR00087	87	1115
CTR00018	18	277	CTR00053	53	717	CTR00088	88	1128
CTR00019	19	291	CTR00054	54	728	CTR00089	89	1138
CTR00020	20	306	CTR00055	55	740	CTR00090	90	1150
CTR00021	21	320	CTR00056	56	751	CTR00091	91	1162
CTR00022	22	334	CTR00057	57	764	CTR00092	92	1174
CTR00023	23	348	CTR00058	58	775	CTR00093	93	1186
CTR00024	24	362	CTR00059	59	788	CTR00094	94	1198
CTR00025	25	377	CTR00060	60	798	CTR00095	95	1208
CTR00026	26	391	CTR00061	61	810	CTR00096	96	1221
CTR00027	27	403	CTR00062	62	822	CTR00097	97	1233
CTR00028	28	418	CTR00063	63	834	CTR00098	98	1244
CTR00029	29	432	CTR00064	64	845	CTR00099	99	1257
CTR00030	30	447	CTR00065	65	858	CTR00100	100	1267
CTR00031	31	458	CTR00066	66	868	CTR00101	101	1280
CTR00032	32	470	CTR00067	67	881	CTR00102	102	1291
CTR00033	33	482	CTR00068	68	892	CTR00103	103	1303
CTR00034	34	494	CTR00069	69	904	CTR00104	104	1315
CTR00035	35	505	CTR00070	70	916	CTR00105	105	1327

106Km to 140Km			141Km to 175Km			176Km to 210Km		
SAP Service code	Lead in KM	Rate/ MT	SAP Service code	Lead in KM	Rate/ MT	SAP Service code	Lead in KM	Rate/ MT
CTR00106	106	1,338	CTR00141	141	1,748	CTR00176	176	2,159
CTR00107	107	1,350	CTR00142	142	1,760	CTR00177	177	2,171
CTR00108	108	1,361	CTR00143	143	1,772	CTR00178	178	2,183
CTR00109	109	1,374	CTR00144	144	1,784	CTR00179	179	2,195
CTR00110	110	1,385	CTR00145	145	1,795	CTR00180	180	2,207
CTR00111	111	1,397	CTR00146	146	1,808	CTR00181	181	2,217
CTR00112	112	1,408	CTR00147	147	1,818	CTR00182	182	2,230
CTR00113	113	1,420	CTR00148	148	1,831	CTR00183	183	2,241
CTR00114	114	1,432	CTR00149	149	1,843	CTR00184	184	2,253
CTR00115	115	1,445	CTR00150	150	1,854	CTR00185	185	2,265
CTR00116	116	1,455	CTR00151	151	1,867	CTR00186	186	2,277
CTR00117	117	1,468	CTR00152	152	1,877	CTR00187	187	2,288
CTR00118	118	1,478	CTR00153	153	1,890	CTR00188	188	2,301
CTR00119	119	1,491	CTR00154	154	1,901	CTR00189	189	2,311
CTR00120	120	1,502	CTR00155	155	1,913	CTR00190	190	2,324
CTR00121	121	1,514	CTR00156	156	1,925	CTR00191	191	2,335
CTR00122	122	1,526	CTR00157	157	1,937	CTR00192	192	2,348
CTR00123	123	1,537	CTR00158	158	1,947	CTR00193	193	2,358
CTR00124	124	1,549	CTR00159	159	1,960	CTR00194	194	2,370
CTR00125	125	1,561	CTR00160	160	1,971	CTR00195	195	2,382
CTR00126	126	1,573	CTR00161	161	1,984	CTR00196	196	2,395
CTR00127	127	1,585	CTR00162	162	1,996	CTR00197	197	2,405
CTR00128	128	1,598	CTR00163	163	2,007	CTR00198	198	2,418
CTR00129	129	1,607	CTR00164	164	2,018	CTR00199	199	2,428
CTR00130	130	1,620	CTR00165	165	2,030	CTR00200	200	2,441
CTR00131	131	1,631	CTR00166	166	2,042	CTR00201	201	2,452
CTR00132	132	1,644	CTR00167	167	2,054	CTR00202	202	2,464
CTR00133	133	1,655	CTR00168	168	2,065	CTR00203	203	2,477
CTR00134	134	1,667	CTR00169	169	2,078	CTR00204	204	2,487
CTR00135	135	1,678	CTR00170	170	2,088	CTR00205	205	2,500
CTR00136	136	1,691	CTR00171	171	2,100	CTR00206	206	2,511
CTR00137	137	1,701	CTR00172	172	2,112	CTR00207	207	2,523
CTR00138	138	1,714	CTR00173	173	2,124	CTR00208	208	2,535
CTR00139	139	1,725	CTR00174	174	2,136	CTR00209	209	2,548
CTR00140	140	1,738	CTR00175	175	2,149	CTR00210	210	2,557

211Km to 245Km			246Km to 280Km			281Km to 315Km		
SAP Service code	Lead in KM	Rate/ MT	SAP Service code	Lead in KM	Rate/ MT	SAP Service code	Lead in KM	Rate/ MT
CTR00211	211	2,570	CTR00246	246	2,980	CTR00281	281	3,391
CTR00212	212	2,581	CTR00247	247	2,992	CTR00282	282	3,404
CTR00213	213	2,594	CTR00248	248	3,005	CTR00283	283	3,414
CTR00214	214	2,605	CTR00249	249	3,015	CTR00284	284	3,427
CTR00215	215	2,617	CTR00250	250	3,028	CTR00285	285	3,437
CTR00216	216	2,628	CTR00251	251	3,038	CTR00286	286	3,450
CTR00217	217	2,640	CTR00252	252	3,051	CTR00287	287	3,461
CTR00218	218	2,651	CTR00253	253	3,062	CTR00288	288	3,473
CTR00219	219	2,664	CTR00254	254	3,074	CTR00289	289	3,485
CTR00220	220	2,675	CTR00255	255	3,087	CTR00290	290	3,498
CTR00221	221	2,688	CTR00256	256	3,099	CTR00291	291	3,507
CTR00222	222	2,699	CTR00257	257	3,109	CTR00292	292	3,520
CTR00223	223	2,710	CTR00258	258	3,121	CTR00293	293	3,531
CTR00224	224	2,722	CTR00259	259	3,133	CTR00294	294	3,544
CTR00225	225	2,734	CTR00260	260	3,145	CTR00295	295	3,556
CTR00226	226	2,746	CTR00261	261	3,158	CTR00296	296	3,567
CTR00227	227	2,758	CTR00262	262	3,167	CTR00297	297	3,578
CTR00228	228	2,769	CTR00263	263	3,180	CTR00298	298	3,590
CTR00229	229	2,781	CTR00264	264	3,191	CTR00299	299	3,602
CTR00230	230	2,793	CTR00265	265	3,204	CTR00300	300	3,614
CTR00231	231	2,804	CTR00266	266	3,215	CTR00301	301	3,625
CTR00232	232	2,817	CTR00267	267	3,227	CTR00302	302	3,638
CTR00233	233	2,827	CTR00268	268	3,238	CTR00303	303	3,649
CTR00234	234	2,840	CTR00269	269	3,251	CTR00304	304	3,660
CTR00235	235	2,852	CTR00270	270	3,261	CTR00305	305	3,672
CTR00236	236	2,863	CTR00271	271	3,274	CTR00306	306	3,684
CTR00237	237	2,875	CTR00272	272	3,285	CTR00307	307	3,697
CTR00238	238	2,887	CTR00273	273	3,298	CTR00308	308	3,709
CTR00239	239	2,898	CTR00274	274	3,308	CTR00309	309	3,719
CTR00240	240	2,910	CTR00275	275	3,320	CTR00310	310	3,731
CTR00241	241	2,921	CTR00276	276	3,332	CTR00311	311	3,743
CTR00242	242	2,934	CTR00277	277	3,344	CTR00312	312	3,755
CTR00243	243	2,946	CTR00278	278	3,356	CTR00313	313	3,767
CTR00244	244	2,957	CTR00279	279	3,368	CTR00314	314	3,777
CTR00245	245	2,968	CTR00280	280	3,379	CTR00315	315	3,790

316Km to 350Km			351Km to 385Km			386Km to 420Km		
SAP Service code	Lead in KM	Rate/ MT	SAP Service code	Lead in KM	Rate/ MT	SAP Service code	Lead in KM	Rate/ MT
CTR00316	316	3,802	CTR00351	351	4,212	CTR00386	386	4,623
CTR00317	317	3,813	CTR00352	352	4,224	CTR00387	387	4,634
CTR00318	318	3,825	CTR00353	353	4,235	CTR00388	388	4,647
CTR00319	319	3,837	CTR00354	354	4,248	CTR00389	389	4,659
CTR00320	320	3,848	CTR00355	355	4,259	CTR00390	390	4,669
CTR00321	321	3,861	CTR00356	356	4,270	CTR00391	391	4,681
CTR00322	322	3,871	CTR00357	357	4,282	CTR00392	392	4,693
CTR00323	323	3,884	CTR00358	358	4,294	CTR00393	393	4,705
CTR00324	324	3,895	CTR00359	359	4,307	CTR00394	394	4,718
CTR00325	325	3,908	CTR00360	360	4,319	CTR00395	395	4,727
CTR00326	326	3,918	CTR00361	361	4,329	CTR00396	396	4,740
CTR00327	327	3,930	CTR00362	362	4,341	CTR00397	397	4,752
CTR00328	328	3,942	CTR00363	363	4,354	CTR00398	398	4,764
CTR00329	329	3,955	CTR00364	364	4,365	CTR00399	399	4,775
CTR00330	330	3,965	CTR00365	365	4,377	CTR00400	400	4,787
CTR00331	331	3,978	CTR00366	366	4,387	CTR00401	401	4,798
CTR00332	332	3,989	CTR00367	367	4,400	CTR00402	402	4,811
CTR00333	333	4,001	CTR00368	368	4,412	CTR00403	403	4,821
CTR00334	334	4,014	CTR00369	369	4,423	CTR00404	404	4,834
CTR00335	335	4,024	CTR00370	370	4,435	CTR00405	405	4,845
CTR00336	336	4,037	CTR00371	371	4,447	CTR00406	406	4,858
CTR00337	337	4,049	CTR00372	372	4,458	CTR00407	407	4,869
CTR00338	338	4,060	CTR00373	373	4,470	CTR00408	408	4,880
CTR00339	339	4,071	CTR00374	374	4,481	CTR00409	409	4,892
CTR00340	340	4,083	CTR00375	375	4,494	CTR00410	410	4,905
CTR00341	341	4,095	CTR00376	376	4,506	CTR00411	411	4,917
CTR00342	342	4,108	CTR00377	377	4,518	CTR00412	412	4,928
CTR00343	343	4,117	CTR00378	378	4,528	CTR00413	413	4,939
CTR00344	344	4,130	CTR00379	379	4,540	CTR00414	414	4,951
CTR00345	345	4,141	CTR00380	380	4,552	CTR00415	415	4,964
CTR00346	346	4,154	CTR00381	381	4,565	CTR00416	416	4,974
CTR00347	347	4,166	CTR00382	382	4,575	CTR00417	417	4,987
CTR00348	348	4,177	CTR00383	383	4,588	CTR00418	418	4,997
CTR00349	349	4,188	CTR00384	384	4,599	CTR00419	419	5,010
CTR00350	350	4,201	CTR00385	385	4,611	CTR00420	420	5,022

421Km to 455Km			456Km to 490Km			491Km to 525Km		
SAP Service code	Lead in KM	Rate/ MT	SAP Service code	Lead in KM	Rate/ MT	SAP Service code	Lead in KM	Rate/ MT
CTR00421	421	5,033	CTR00456	456	5,444	CTR00491	491	5,855
CTR00422	422	5,045	CTR00457	457	5,456	CTR00492	492	5,867
CTR00423	423	5,058	CTR00458	458	5,468	CTR00493	493	5,879
CTR00424	424	5,068	CTR00459	459	5,478	CTR00494	494	5,889
CTR00425	425	5,080	CTR00460	460	5,490	CTR00495	495	5,901
CTR00426	426	5,091	CTR00461	461	5,502	CTR00496	496	5,914
CTR00427	427	5,104	CTR00462	462	5,515	CTR00497	497	5,925
CTR00428	428	5,116	CTR00463	463	5,527	CTR00498	498	5,937
CTR00429	429	5,127	CTR00464	464	5,538	CTR00499	499	5,947
CTR00430	430	5,138	CTR00465	465	5,549	CTR00500	500	5,960
CTR00431	431	5,151	CTR00466	466	5,561	CTR00501	501	5,972
CTR00432	432	5,162	CTR00467	467	5,574	CTR00502	502	5,983
CTR00433	433	5,175	CTR00468	468	5,584	CTR00503	503	5,995
CTR00434	434	5,185	CTR00469	469	5,597	CTR00504	504	6,008
CTR00435	435	5,198	CTR00470	470	5,609	CTR00505	505	6,018
CTR00436	436	5,209	CTR00471	471	5,620	CTR00506	506	6,031
CTR00437	437	5,221	CTR00472	472	5,631	CTR00507	507	6,041
CTR00438	438	5,233	CTR00473	473	5,643	CTR00508	508	6,054
CTR00439	439	5,244	CTR00474	474	5,655	CTR00509	509	6,066
CTR00440	440	5,257	CTR00475	475	5,668	CTR00510	510	6,078
CTR00441	441	5,269	CTR00476	476	5,677	CTR00511	511	6,088
CTR00442	442	5,279	CTR00477	477	5,690	CTR00512	512	6,100
CTR00443	443	5,291	CTR00478	478	5,702	CTR00513	513	6,112
CTR00444	444	5,304	CTR00479	479	5,714	CTR00514	514	6,125
CTR00445	445	5,315	CTR00480	480	5,726	CTR00515	515	6,136
CTR00446	446	5,328	CTR00481	481	5,737	CTR00516	516	6,148
CTR00447	447	5,337	CTR00482	482	5,748	CTR00517	517	6,161
CTR00448	448	5,350	CTR00483	483	5,761	CTR00518	518	6,171
CTR00449	449	5,362	CTR00484	484	5,772	CTR00519	519	6,184
CTR00450	450	5,374	CTR00485	485	5,784	CTR00520	520	6,194
CTR00451	451	5,385	CTR00486	486	5,795	CTR00521	521	6,207
CTR00452	452	5,397	CTR00487	487	5,808	CTR00522	522	6,219
CTR00453	453	5,408	CTR00488	488	5,819	CTR00523	523	6,230
CTR00454	454	5,421	CTR00489	489	5,830	CTR00524	524	6,241
CTR00455	455	5,431	CTR00490	490	5,843	CTR00525	525	6,254

526Km to 560Km			561Km to 595Km			596Km to 630Km		
SAP Service code	Lead in KM	Rate/ MT	SAP Service code	Lead in KM	Rate/ MT	SAP Service code	Lead in KM	Rate/ MT
CTR00526	526	6,265	CTR00561	561	6,676	CTR00596	596	7,087
CTR00527	527	6,278	CTR00562	562	6,688	CTR00597	597	7,098
CTR00528	528	6,287	CTR00563	563	6,698	CTR00598	598	7,111
CTR00529	529	6,300	CTR00564	564	6,711	CTR00599	599	7,121
CTR00530	530	6,312	CTR00565	565	6,722	CTR00600	600	7,134
CTR00531	531	6,324	CTR00566	566	6,735	CTR00601	601	7,144
CTR00532	532	6,335	CTR00567	567	6,746	CTR00602	602	7,157
CTR00533	533	6,347	CTR00568	568	6,758	CTR00603	603	7,169
CTR00534	534	6,358	CTR00569	569	6,771	CTR00604	604	7,180
CTR00535	535	6,371	CTR00570	570	6,781	CTR00605	605	7,191
CTR00536	536	6,381	CTR00571	571	6,793	CTR00606	606	7,203
CTR00537	537	6,394	CTR00572	572	6,805	CTR00607	607	7,215
CTR00538	538	6,406	CTR00573	573	6,817	CTR00608	608	7,228
CTR00539	539	6,418	CTR00574	574	6,829	CTR00609	609	7,237
CTR00540	540	6,429	CTR00575	575	6,839	CTR00610	610	7,250
CTR00541	541	6,440	CTR00576	576	6,851	CTR00611	611	7,262
CTR00542	542	6,453	CTR00577	577	6,864	CTR00612	612	7,274
CTR00543	543	6,465	CTR00578	578	6,875	CTR00613	613	7,286
CTR00544	544	6,477	CTR00579	579	6,888	CTR00614	614	7,297
CTR00545	545	6,488	CTR00580	580	6,897	CTR00615	615	7,308
CTR00546	546	6,499	CTR00581	581	6,910	CTR00616	616	7,321
CTR00547	547	6,511	CTR00582	582	6,922	CTR00617	617	7,332
CTR00548	548	6,524	CTR00583	583	6,934	CTR00618	618	7,344
CTR00549	549	6,534	CTR00584	584	6,945	CTR00619	619	7,356
CTR00550	550	6,547	CTR00585	585	6,958	CTR00620	620	7,368
CTR00551	551	6,559	CTR00586	586	6,968	CTR00621	621	7,381
CTR00552	552	6,570	CTR00587	587	6,981	CTR00622	622	7,390
CTR00553	553	6,582	CTR00588	588	6,991	CTR00623	623	7,403
CTR00554	554	6,593	CTR00589	589	7,004	CTR00624	624	7,415
CTR00555	555	6,605	CTR00590	590	7,016	CTR00625	625	7,427
CTR00556	556	6,618	CTR00591	591	7,028	CTR00626	626	7,439
CTR00557	557	6,628	CTR00592	592	7,038	CTR00627	627	7,449
CTR00558	558	6,640	CTR00593	593	7,050	CTR00628	628	7,461
CTR00559	559	6,651	CTR00594	594	7,063	CTR00629	629	7,474
CTR00560	560	6,664	CTR00595	595	7,075	CTR00630	630	7,485

631Km to 665Km			666Km to 700Km		
SAP Service code	Lead in KM	Rate/ MT	SAP Service code	Lead in KM	Rate/ MT
CTR00631	631	7,497	CTR00666	666	7,908
CTR00632	632	7,509	CTR00667	667	7,918
CTR00633	633	7,520	CTR00668	668	7,931
CTR00634	634	7,532	CTR00669	669	7,942
CTR00635	635	7,544	CTR00670	670	7,954
CTR00636	636	7,555	CTR00671	671	7,966
CTR00637	637	7,568	CTR00672	672	7,978
CTR00638	638	7,578	CTR00673	673	7,991
CTR00639	639	7,591	CTR00674	674	8,000
CTR00640	640	7,601	CTR00675	675	8,013
CTR00641	641	7,614	CTR00676	676	8,025
CTR00642	642	7,626	CTR00677	677	8,037
CTR00643	643	7,638	CTR00678	678	8,049
CTR00644	644	7,648	CTR00679	679	8,061
CTR00645	645	7,661	CTR00680	680	8,071
CTR00646	646	7,673	CTR00681	681	8,084
CTR00647	647	7,685	CTR00682	682	8,095
CTR00648	648	7,697	CTR00683	683	8,107
CTR00649	649	7,708	CTR00684	684	8,119
CTR00650	650	7,721	CTR00685	685	8,130
CTR00651	651	7,731	CTR00686	686	8,142
CTR00652	652	7,744	CTR00687	687	8,153
CTR00653	653	7,754	CTR00688	688	8,165
CTR00654	654	7,767	CTR00689	689	8,178
CTR00655	655	7,779	CTR00690	690	8,188
CTR00656	656	7,790	CTR00691	691	8,200
CTR00657	657	7,801	CTR00692	692	8,212
CTR00658	658	7,814	CTR00693	693	8,224
CTR00659	659	7,825	CTR00694	694	8,236
CTR00660	660	7,838	CTR00695	695	8,248
CTR00661	661	7,847	CTR00696	696	8,258
CTR00662	662	7,860	CTR00697	697	8,271
CTR00663	663	7,872	CTR00698	698	8,283
CTR00664	664	7,884	CTR00699	699	8,295
CTR00665	665	7,896	CTR00700	700	8,306

49. Area Allowances			
(% extra over basic rates of labour is to be added for carrying out works in these areas)			
Note:- If more than one area allowance like Municipality, Agency/ Tribal Area, Industrial Area etc., are applicable for a particular situation, only the maximum out of the allowable percentage is to be allowed			
Sl No	Area of works located	Detailed description of area	Extra % over labour rates
1	Amaravathi Capital City Area	Amaravathi Capital City Area (217 Sq.Km) as declared by the Govt. Vide GO Ms No 141, MA&UD(M2) Dept , Dt- 9-6-2015 (Introduced as per the Govt Instructions issued in Govt Memo No 668755/Reforms/2017, Dt: 14-7-2017)	40%
2	Greater Municipal Corporations	Greater Visakhapatnam and Vijayawada Municipal Corporations (Up to a belt of 12 Km from Municipal Corporation Limits)	40%
3	Municipal Corporations	All Municipal Corporations other than Greater Visakhapatnam and Vijayawada Municipal Corporations (Up to a belt of 12 Km from Municipal Corporation limits)	25%
4	District Head quarters	All District Headquarters and the remaining Municipal Limits (Up to a belt of 12Km from Municipal limits)	20%
5	Tirumala Hills	Tirumala hills in Chittoor District	40%
6	Horsely Hills	Horsely hills in Chittoor District	30%
7	Tirumala Temple	20% Extra over the basic rate of labour component specified for Tirumala hills	68%

8	TTD Temples	In these TTD temples 20% extra over the basic rates of labour component for Tirupati Municipal Corporation is allowed. 1) Sri Padmavathi Ammavari Temple, Tiruchanoor 2) Sri Govindaraja Swamy Temple, Tirupati 3) Sri Kapileswara Swamy Temple, Kapilatheertham, Tirupati 4) Sri Kalyana Venkateswara Swamy Temple, Srinivasa Mangapuram	50%
9	Jail compounds	In Jail compounds only equivalent number of Man mazdoor shall be provided and no Women mazdoor are allowed inside	20%
10	Industrial area	Extra percentage is allowed within 10Km belt of following Industrial areas 1) Krishna Dist - Ibrahimpatnam, Vuyyuru and Jaggaiahpetta 2) Guntur Dist - Macherla, Gurajala and Challapalli 3) Vijayanagaram Dist - Garividi 4) Chittoor Dist - Renigunta 5) Kadapa Dist - Yerraguntla and Mangampeta 6) Anantapur Dist - Hindupur, Tadipatri, Anantapur, Guntakal, Rayalacheruvu and Yadiki 7) Kurnool Dist - Adoni, Dhone, Cement Nagar, Nandyal, Kurnool, Yemmiganur and Bethamcherla 8) Visakhapatnam Dist - Anakapally	20%
11	Agency/Tribal Areas (Up to 16km)	Works located within & upto 16 Km from any all weather route inside Agency/ Tribal areas	25%
12	Agency/Tribal Areas (beyond 16km)	Works located beyond 16 Km from any all weather route inside Agency/ Tribal areas	40%
13	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 for conveyance of materials	1.5 times length of road
14	Other Hill Areas	All other Hill areas	30%

		Extra labour charges based on nature of emergency and time of work	
15(a)	Emergency rectification works	Heavy rain, gale, floods, cyclone alarming time and accident rectification works from 6.00PM to 6.00AM	50%
15(b)	Emergency rectification works	Heavy rain, gale, floods, cyclone alarming time and accident rectification works from 6.00AM to 6.00PM	30%
16 (a)	Emergency replacement of DTRs	Replacement of failed DTRs from 6.00PM to 6.00AM	40%
16(b)	Emergency replacement of DTRs	Replacement of failed DTRs from 6.00AM to 6.00PM	25%
50 1) GST and statutory payments borne by the Discoms.			
2) Contractors Profit and overhead charges			
SL No	Description of Item		
1	All the labour rates in SSR and material rates (except Petrol & Diesel) in Cost data are exclusive of GST only. At the time of preparation of estimate, applicable Building workers welfare cess and applicable GST is to be applied on the final value of estimate.		
a)	But for Petrol & Diesel, the rates are inclusive of VAT & Excise duty as per the current policy of Govt. of India.		
b)	Rates of Cement, Reinforcement Steel and structural steel are exclusive of GST only and are communicated by Govt of AP on monthly basis.		
c)	As on 1-8-2021 applicable Building workers welfare cess and GST on works is as below (Estimates are to be revised as and when Government revises applicable Cess and GST rates)		
i)	Building workers welfare cess	1%	To be applied at the end of estimate but before GST.
ii)	Rate of GST on works contract, applicable on estimate value + Building workers welfare cess	18%	To be applied at the end of estimate. GST rate from 1-7-2017 to till date

2	Contractors Profit and Over head charges	
a)	Contractors Profit and Over head charges is to be applied on individual items of data and not at the end of estimate at the following percentage on Labour charges and material supplied by the contractor only (No Contractor profit & over head charges on department supplied material).	
i)	Works costing more than Rs 1 Crore	13.615%
ii)	Works costing between Rs 50 lakh and Rs 1 Crore	7%
ii)	Works costing between Rs 10 lakh and Rs 50 lakh	4%



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