



ANDHRA PRADESH CENTRAL POWER DISTRIBUTION CORPORATION LIMITED

Dr. Y.S.R Vidyut Soudha,

Corporate office, Besides Govt Polytechnic college, ITI Road, Vijayawada -520 008

From  
The Chairman and Managing Director,  
APCPDCL, Corporate office,  
Besides Govt Polytechnic college,  
ITI Road, Vijayawada

To  
The Chairman and Managing Director,  
APEPDCL, Corporate office,  
Seethammadhara,  
Visakhapatnam.

Lr No CMD/APCPDCL/VJA/SSR/D No 164/22, Dt:- 31 - 5 - 2022.

Sir,

Sub:- APCPDCL –Revised common SSR for the three Discoms APSPDCL, APCPDCL and APEPDCL for the year 2022-23- Communicated – Reg.

Ref:-1) Memo No APCPDCL/CMD/SSR/D NO 897/22, Dt :- 11-5-2022.

- 2) SSR Committee report received on 28-5-2022.
- 3) APSPDCL acceptance letter for the revised SSR for the year 2022-23.
- 4) APEPDCL acceptance letter for the revised SSR for the year 2022-23.

SSR committee was formed in the reference 1<sup>st</sup> cited, to study and submit a report on revision of SSR for the year 2022-23 as there was a huge increase in rates of labour due to Covid 19 and Ukraine war. The SSR committee submitted its report on SSR revision for the year 2022-23 in the reference 2<sup>nd</sup> cited.

After careful examination of the report of the committee on SSR 2022-23 and to provide appropriate rates this was discussed with other two CMDs and the same was sent for approval of proposed SSR 2022-23.

The APEPDCL and APSPDCL Discoms have given their acceptance for the SSR 2022-23 proposals.

The revised approved common SSR for the three Discoms APSPDCL, APCPDCL and APEPDCL for the year 2022-23 is hereby communicated for implementation from 1-6-2022 until further orders. This SSR 2022-23 supersedes the SSR 2021-22 for a period of two months ie June, 2022 and July, 2022.

Yours faithfully,

  
Chairman and Managing Director,  
APCPDCL

Copy to the Director, Technical, APCPDCL for information.

Copy to the Director, Finance, APCPDCL for information.

**From**  
**The Chairman and Managing Director,**  
**APEPDCL, Seethammadhara,**  
**Visakhapatnam.**

**To**  
**The Chairman and Managing Director,**  
**APCPDCL,**  
**ITI Road,**  
**Vijayawada.**

**Lr No CMD/APEPDCL/VSP/D No 62 /22, Dt:- 31 - 5 - 2022.**

Sub:- APCPDCL –Revised common SSR for the three Discoms APSPCL, APCPCL and APEPDCL for the year 2022-23 – Acceptance communicated - Reg.

Ref:-1) Memo No APCPDCL/CMD/SSR/D No 897/22, Dt:- 11-5-2022

2) SSR committee report received on 28-5-2022

SSR committee was formed in the reference 1<sup>st</sup> cited, to study and submit a report on revision of SSR for the year 2022-23 for the three Discoms APSPCL, APCPCL and APEPDCL as there was a huge increase in the rates of labour due to Covid 19 and Ukraine war.

The SSR committee submitted its report on SSR revision for the year 2022-23 in the reference 2<sup>nd</sup> cited.

After careful examination of the proposed SSR 2022-23 in the office the same is accepted.

The acceptance letter is here by communicated to APCPDCL,CMD to issue new SSR for the year 2022-23.

// digitally signed //

**Chairman and Managing Director,**  
**APEPDCL: Visakhapatnam.**

**SANTHOSH** Digitally signed by  
**A RAO** SANTHOSHA RAO  
**KUDARY** KUDARY  
Date: 2022.05.31  
16:31:29 +05'30'



Southern Power AP

# Southern Power Distribution Company of A.P. Limited

(Wholly owned by Govt. of A.P.)

From  
The Chairman and Managing Director,  
APSPDCL,  
Tirupati.

To  
The Chairman and Managing Director,  
APCPDCL, ITI Road,  
Vijayawada.

Lr No CMD/APSPDCL/Tirupati/D No.1028/22, Dt. 31.05.2022.

Sub:- APSPDCL –Revised common SSR for the three Discoms APSPCL, APCPCL and APEPDCL for the year 2022-23 - Acceptance communicated - Reg.

Ref:- 1) Memo No APCPDCL/CMD/SSR/D No 897/22, Dt:- 11-5-2022  
2) SSR committee report received on 28-5-2022

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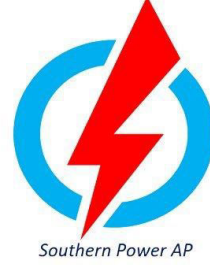
SSR committee was formed in the reference 1st cited, to study and submit a report on revision of SSR for the year 2022-23 for the three Discoms APSPCL, APCPCL and APEPDCL as there was a huge increase in the rates of labour due to Covid-19 and Ukraine war.

The SSR committee submitted its report on SSR revision for the year 2022-23 in the reference 2nd cited.

After careful examination of the proposed SSR 2022-23 in the office the same is accepted.

The acceptance letter is here by communicated to CMD, APCPDCL to issue new SSR for the year 2022-23.

  
Chairman and Managing Director,  
APSPDCL: TIRUPATI.



**Andhra Pradesh Eastern Power Distribution Company Limited**

**Andhra Pradesh Central Power Distribution Corporation Limited**

**Andhra Pradesh Southern Power Distribution Company Limited**

**Common SSR for APEPDCL, APCPDCL and  
APSPDCL for the year 2022-23  
(Effective from 1-6-2022)**

**Prepared by SSR and Cost data committee consisting members of APEPDCL,  
APCPDCL and APSPDCL**

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<b>1</b>	<b>Loading and Unloading charges</b>						
<b>SL NO</b>	<b>Description of material</b>	<b>Unit</b>	<b>Unit weight in Kg</b>	<b>SAP Code</b>	<b>Loading</b>	<b>SAP Code</b>	<b>Un-Loading</b>
<b>1.1</b>	<b>PSCC Poles</b>						
<b>1.1.1</b>	8m/140 KG PSCC Pole	EA	355	CLD00001	<b>140</b>	CUD00001	<b>70</b>
<b>1.1.2</b>	8m/200 KG PSCC Pole	EA	380	CLD00002	<b>147</b>	CUD00002	<b>74</b>
<b>1.1.3</b>	8m/300 KG PSCC Pole	EA	505	CLD00003	<b>196</b>	CUD00003	<b>99</b>
<b>1.1.4</b>	9.1m/280 KG PSCC Pole	EA	680	CLD00004	<b>274</b>	CUD00004	<b>137</b>
<b>1.1.5</b>	11m/365 KG PSCC Pole	EA	1127	CLD00005	<b>541</b>	CUD00005	<b>271</b>
<b>1.2</b>	<b>Spun poles</b>						
<b>1.2.1</b>	9.5m/300 KG Spun pole	EA	620	CLD00006	<b>376</b>	CUD00006	<b>262</b>
<b>1.2.2</b>	11m/350KG Spun pole	EA	900	CLD00007	<b>520</b>	CUD00007	<b>342</b>
<b>1.2.3</b>	12.5m/350 KG Spun pole	EA	1200	CLD00008	<b>667</b>	CUD00008	<b>466</b>
<b>1.3</b>	<b>RS Joists</b>						
<b>1.3.1</b>	9m - 150x75 RS Joist pole	EA	140	CLD00009	<b>98</b>	CUD00009	<b>72</b>
<b>1.3.2</b>	9m- 175 x85 RS Joist Pole	EA	215	CLD00010	<b>98</b>	CUD00010	<b>72</b>
<b>1.3.3</b>	9m - 150x150 RS Joist Pole (34.6Kg/m)	EA	311.4	CLD00011	<b>140</b>	CUD00011	<b>70</b>
<b>1.3.4</b>	11m- 175 x85 RS Joist Pole (19.3Kg/m)	EA	212.3	CLD00012	<b>94</b>	CUD00012	<b>62</b>
<b>1.3.5</b>	11m - 150x150 RS Joist Pole (34.6Kg/m)	EA	380.6	CLD00013	<b>155</b>	CUD00013	<b>77</b>
<b>1.4</b>	<b>Rail poles</b>						
<b>1.4.1</b>	8.23m - 60lbs/27.3 Kg Rail pole	EA	225	CLD00014	<b>94</b>	CUD00014	<b>62</b>
<b>1.4.2</b>	9.14m - 75lbs/34.1 Kg Rail pole	EA	312	CLD00015	<b>109</b>	CUD00015	<b>70</b>
<b>1.4.3</b>	9.14m - 90lbs/40.9Kg Rail pole	EA	374	CLD00016	<b>132</b>	CUD00016	<b>77</b>
<b>1.4.4</b>	9.14m - 105lbs/47.7Kg Rail pole	EA	436	CLD00017	<b>150</b>	CUD00017	<b>86</b>
<b>1.5</b>	<b>Distribution Transformers</b>						
<b>1.5.1</b>	1Ph 5 KVA DTR	EA	75	CLD00018	<b>47</b>	CUD00018	<b>47</b>
<b>1.5.2</b>	1Ph 10KVA DTR	EA	115	CLD00019	<b>77</b>	CUD00019	<b>77</b>
<b>1.5.3</b>	1Ph 15/16KVA DTR	EA	190	CLD00020	<b>117</b>	CUD00020	<b>117</b>
<b>1.5.4</b>	1Ph 25KVA DTR	EA	245	CLD00021	<b>194</b>	CUD00021	<b>194</b>
<b>1.5.5</b>	3Ph 15/16KVA DTR	EA	280	CLD00022	<b>192</b>	CUD00022	<b>192</b>
<b>1.5.6</b>	3Ph 25KVA DTR	EA	350	CLD00023	<b>220</b>	CUD00023	<b>220</b>

<b>1.5.7</b>	3Ph 40 KVA DTR	EA	455	CLD00024	<b>232</b>	CUD00024	<b>232</b>
<b>1.5.8</b>	3Ph 50 KVA DTR	EA	510	CLD00025	<b>232</b>	CUD00025	<b>232</b>
<b>1.5.9</b>	3Ph 63 KVA DTR	EA	690	CLD00026	<b>350</b>	CUD00026	<b>350</b>
<b>1.5.10</b>	3Ph 75 KVA DTR	EA	730	CLD00027	<b>421</b>	CUD00027	<b>421</b>
<b>1.5.11</b>	3Ph 100 KVA DTR	EA	730	CLD00028	<b>421</b>	CUD00028	<b>421</b>
<b>1.5.12</b>	Amorphous make 100KVA DTRs	EA	900	CLD00029	<b>421</b>	CUD00029	<b>421</b>
<b>1.5.13</b>	3Ph 160KVA DTR	EA	1200	CLD00030	<b>520</b>	CUD00030	<b>520</b>
<b>1.5.14</b>	3Ph 250 KVA DTR	EA	1700	CLD00031	<b>736</b>	CUD00031	<b>736</b>
<b>1.5.15</b>	3Ph 315 KVA DTR	EA	2340	CLD00032	<b>1012</b>	CUD00032	<b>1012</b>
<b>1.5.16</b>	3Ph 500 KVA DTR	EA	2750	CLD00033	<b>1189</b>	CUD00033	<b>1189</b>
<b>1.6</b>	<b>Power Transformers</b>						
<b>1.6.1</b>	3.15 MVA PTR	EA	10350	CLD00034	<b>7434</b>	CUD00034	<b>7434</b>
<b>1.6.2</b>	5.0 MVA PTR	EA	16000	CLD00035	<b>9929</b>	CUD00035	<b>9929</b>
<b>1.6.3</b>	8.0 MVA PTR	EA	18500	CLD00036	<b>12411</b>	CUD00036	<b>12411</b>
<b>1.6.4</b>	10.0 MVA PTR	EA	22500	CLD00037	<b>15048</b>	CUD00037	<b>15048</b>
<b>1.6.5</b>	12.5 MVA PTR	EA	25000	CLD00038	<b>16721</b>	CUD00038	<b>16721</b>
<b>1.7</b>	<b>Isolators</b>						
<b>1.7.1</b>	33 KV AB switch	EA	224	CLD00039	<b>129</b>	CUD00039	<b>129</b>
<b>1.7.2</b>	11 KV AB switch	EA	70	CLD00040	<b>49</b>	CUD00040	<b>49</b>
<b>1.7.3</b>	11 KV H.G. Fuse set	EA	30	CLD00041	<b>20</b>	CUD00041	<b>20</b>
<b>1.7.4</b>	L.T. H.G. Fuse set	EA	25	CLD00042	<b>16</b>	CUD00042	<b>16</b>
<b>1.8</b>	<b>EQUIPMENT</b>						
<b>1.8.1</b>	33 KV VCB alone	SET	910	CLD00043	<b>1398</b>	CUD00043	<b>1398</b>
<b>1.8.2</b>	11 KV VCB alone	SET	730	CLD00044	<b>1202</b>	CUD00044	<b>1202</b>
<b>1.8.3</b>	33KV or 11 KV control panels	EA	225	CLD00045	<b>278</b>	CUD00045	<b>278</b>
<b>1.8.4</b>	33KV HV/LV twin feeder panel	EA	600	CLD00046	<b>557</b>	CUD00046	<b>557</b>
<b>1.8.5</b>	11 KV Metering cubicle	SET	170	CLD00047	<b>232</b>	CUD00047	<b>232</b>
<b>1.8.6</b>	33KV PT or CT	EA	110	CLD00048	<b>202</b>	CUD00048	<b>202</b>
<b>1.8.7</b>	11KV PT or CT	EA	65	CLD00049	<b>109</b>	CUD00049	<b>109</b>
<b>1.8.8</b>	Batteries	EA	27	CLD00050	<b>24</b>	CUD00050	<b>24</b>
<b>1.8.9</b>	Charger with batteries	EA	45	CLD00051	<b>41</b>	CUD00051	<b>41</b>
<b>1.9</b>	<b>Iron Materials</b>						
<b>1.9.1</b>	Iron and steel materials	TON	1000	CLD00052	<b>388</b>	CUD00052	<b>388</b>
<b>1.9.2</b>	HT, Mild steel wire	TON	1000	CLD00053	<b>388</b>	CUD00053	<b>388</b>
<b>1.9.3</b>	Stay wire, GI wire	TON	1000	CLD00054	<b>388</b>	CUD00054	<b>388</b>
<b>1.9.4</b>	D.P. structural materials	SET	480	CLD00055	<b>155</b>	CUD00055	<b>155</b>
<b>1.9.5</b>	40 KVA DTR mounting arrangements	EA	45	CLD00056	<b>32</b>	CUD00056	<b>32</b>

1.9.6	Seating arrangements of 3ph16/25KVA DTRs	EA	40	CLD00057	32	CUD00057	32
1.9.7	33 KV ' V' cross arms	EA	22.5	CLD00058	9	CUD00058	9
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	3.5	CUD00061	3.5
1.9.11	33 KV Top Fittings	EA	7	CLD00062	3.5	CUD00062	3.5
1.9.12	11 KV Top Fittings	EA	4.4	CLD00063	3.5	CUD00063	3.5
1.9.13	L.T Top Fittings	EA	3.5	CLD00064	2.3	CUD00064	2.3
1.9.14	Back clamps	EA	1.2	CLD00065	1.2	CUD00065	1.2
1.9.15	Stay clamps set	SET	1.5	CLD00066	1.2	CUD00066	1.2
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	16	CUD00069	16
1.9.19	'A' Type Distribution Box	EA	55	CLD00070	23	CUD00070	23
1.9.20	'B' type distribution box	SET	20	CLD00071	9	CUD00071	9
1.9.21	M.S/GI Bolts & Nuts	KG	1	CLD00072	1.2	CUD00072	1.2
1.9.22	S-Ph MCCB Distribution Box	EA	70	CLD00124	31	CUD00124	31
1.9.23	3-Ph MCCB Distribution Box	EA	70	CLD00125	31	CUD00125	31
1.9.24	SMC/ LT Distribution box	EA	25	CLD00126	23	CUD00126	23
1.9.25	Transformer Stand for 63KVA DTR	EA	85	CLD00127	41	CUD00127	41
1.9.26	Transformer Stand for 100KVA DTR	EA	95	CLD00128	41	CUD00128	41
1.9.27	Transformer Stand for 160KVA DTR	EA	115	CLD00129	72	CUD00129	72
1.9.28	Mounting arrangements TT ABS	EA	10	CLD00130	8	CUD00130	8
1.9.29	Mounting Arrangements 1 ph DTR	EA	15	CLD00131	9	CUD00131	9
1.9.30	Mounting Arrangement 200TT AB Switch	EA	10	CLD00132	8	CUD00132	8
1.9.31	33KV Strut and side arm	EA	35	CLD00133	8	CUD00133	8
1.9.32	33KV Tapping Cross Arms	EA	21	CLD00134	8	CUD00134	8
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	12	CUD00136	12
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	16	CUD00138	16
1.9.37	33KV Back Clamps	EA	2.5	CLD00139	2.3	CUD00139	2.3
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	8	CUD00141	8
1.9.40	33kv stay set	EA	10	CLD00142	9	CUD00142	9
1.9.41	11KV Extension Piece	EA	10	CLD00143	6	CUD00143	6
1.9.42	33KV Extension Piece	EA	10	CLD00144	8	CUD00144	8
	<b>INSULATORS &amp; PINS</b>						

<b>1.1</b>	<b>33KV - Insulators &amp; Pins</b>						
<b>1.10.1</b>	33 KV Post type Insulators-2 piece type	EA	6.2	CLD00073	<b>9</b>	CUD00073	<b>9</b>
<b>1.10.2</b>	33 KV Post type Insulators-Single piece solid core type	EA	10	CLD00074	<b>10</b>	CUD00074	<b>10</b>
<b>1.10.3</b>	33 KV Pin Insulators	EA	2.7	CLD00075	<b>3.5</b>	CUD00075	<b>3.5</b>
<b>1.10.4</b>	33 KV G.I. Pins	EA	2.3	CLD00076	<b>2.3</b>	CUD00076	<b>2.3</b>
<b>1.10.5</b>	33 KV Polymer disc	EA	1.25	CLD00077	<b>3.5</b>	CUD00077	<b>3.5</b>
<b>1.10.6</b>	33 KV LAS	EA	19.6	CLD00078	<b>39</b>	CUD00078	<b>39</b>
<b>1.10.7</b>	33kv polymer pin insulators	EA	3	CLD00145	<b>3.5</b>	CUD00145	<b>3.5</b>
<b>1.10.8</b>	11kv polymer pin insulators	EA	1	CLD00146	<b>2.3</b>	CUD00146	<b>2.3</b>
<b>1.11</b>	<b>11KV - Insulators &amp; Pins</b>						
<b>1.11.1</b>	11 KV Post type Insulators	EA	5.6	CLD00079	<b>6</b>	CUD00079	<b>6</b>
<b>1.11.2</b>	11 KV Pin Insulators	EA	1.1	CLD00080	<b>2.3</b>	CUD00080	<b>2.3</b>
<b>1.11.3</b>	11 KV GI Pins	EA	0.9	CLD00081	<b>2.3</b>	CUD00081	<b>2.3</b>
<b>1.11.4</b>	11 KV Disc Insulators	EA	1.4	CLD00082	<b>2.3</b>	CUD00082	<b>2.3</b>
<b>1.11.5</b>	11 KV Polymer disc	EA	0.7	CLD00083	<b>2.3</b>	CUD00083	<b>2.3</b>
<b>1.11.6</b>	11 KV/33KV Metal parts	SET	1.95	CLD00084	<b>2.3</b>	CUD00084	<b>2.3</b>
<b>1.11.7</b>	H.T. Guy Insulators	EA	1.15	CLD00085	<b>2.3</b>	CUD00085	<b>2.3</b>
<b>1.12</b>	<b>11 KV LAS</b>						
<b>1.12.1</b>	11 KV LAS(Station Type)	EA	9.6	CLD00086	<b>20</b>	CUD00086	<b>20</b>
<b>1.12.2</b>	11 KV LAS(Line Type)	EA	6.6	CLD00087	<b>9</b>	CUD00087	<b>9</b>
<b>1.13</b>	<b>LT- Insulators &amp; Pins</b>						
<b>1.13.1</b>	L.T. Pin Insulators	EA	0.5	CLD00088	<b>1.2</b>	CUD00088	<b>1.2</b>
<b>1.13.2</b>	L.T.G.I. Pins	SET	0.5	CLD00089	<b>1.2</b>	CUD00089	<b>1.2</b>
<b>1.13.3</b>	L.T. Shackles	EA	0.5	CLD00090	<b>1.2</b>	CUD00090	<b>1.2</b>
<b>1.13.4</b>	L.T. metal parts	SET	0.5	CLD00091	<b>1.2</b>	CUD00091	<b>1.2</b>
<b>1.13.5</b>	L.T. Guy Insulators	EA	0.5	CLD00092	<b>1.2</b>	CUD00092	<b>1.2</b>
<b>1.14</b>	<b>CONDUCTOR/ CABLE</b>						
<b>1.14.1</b>	Conductor Drum(All)	EA	900	CLD00093	<b>361</b>	CUD00093	<b>361</b>
<b>1.14.2</b>	PVC Cable(>25 up to 185sq.mm) Drum	EA	1000	CLD00094	<b>232</b>	CUD00094	<b>232</b>
<b>1.14.3</b>	PVC Cable up to and 10 Sq. Mm Drum	EA	734	CLD00095	<b>228</b>	CUD00095	<b>228</b>
<b>1.14.4</b>	33KV Cable XLPE Drum- 35/50,70,95,120,185,300,400 Sqmm & LT UV XLPE cable 300 Sqmm	DRUM	3000	CLD00096	<b>927</b>	CUD00096	<b>927</b>
<b>1.14.5</b>	11KV Cable XLPE Drum 35/50,70,95,120,185,300 Sqmm	DRUM	2000	CLD00097	<b>619</b>	CUD00097	<b>619</b>
<b>1.15</b>	<b>GENERAL ITEMS</b>						
<b>1.15.1</b>	Transformer oil drums with oil	EA	193	CLD00098	<b>77</b>	CUD00098	<b>77</b>

<b>1.15.2</b>	Empty oil drums	EA	22	CLD00099	<b>16</b>	CUD00099	<b>16</b>
<b>1.15.3</b>	C.T. Meter box with complete assembly	EA	15	CLD00100	<b>24</b>	CUD00100	<b>24</b>
<b>1.15.4</b>	3Ph/CT Meter Boxes	EA	10	CLD00101	<b>10</b>	CUD00101	<b>10</b>
<b>1.15.5</b>	3Ph Meters	EA	2.5	CLD00102	<b>5</b>	CUD00102	<b>5</b>
<b>1.15.6</b>	1Ph Meters	EA	1.2	CLD00103	<b>3.5</b>	CUD00103	<b>3.5</b>
<b>1.15.7</b>	Fuse units 16 A to 32 A	EA	0.4	CLD00104	<b>1.2</b>	CUD00104	<b>1.2</b>
<b>1.15.8</b>	Fuse units 63 A / 100 A	EA	0.75	CLD00105	<b>1.2</b>	CUD00105	<b>1.2</b>
<b>1.15.9</b>	Fuse units 200 A, 300 A	EA	1	CLD00106	<b>2.3</b>	CUD00106	<b>2.3</b>
<b>1.15.10</b>	100 Lugs	CAR-100 lugs	1.6	CLD00107	<b>9</b>	CUD00107	<b>9</b>
<b>1.15.11</b>	11KV Fixed/ Moving contacts	EA	1.2	CLD00108	<b>2.3</b>	CUD00108	<b>2.3</b>
<b>1.15.12</b>	33KV Fixed/ Moving contacts	EA	2.5	CLD00109	<b>3.5</b>	CUD00109	<b>3.5</b>
<b>1.15.13</b>	11KV Cable Jointing kits	EA	2	CLD00110	<b>6</b>	CUD00110	<b>6</b>
<b>1.15.14</b>	33KV Cable Jointing kits	EA	3.5	CLD00111	<b>9</b>	CUD00111	<b>9</b>
<b>1.15.15</b>	Street light fixture	SET	12.5	CLD00112	<b>12</b>	CUD00112	<b>12</b>
<b>1.15.16</b>	Fuse wire/MRT Materials	KG	1	CLD00113	<b>3.5</b>	CUD00113	<b>3.5</b>
<b>1.15.17</b>	Winding wire up to 5 Kg	ROL	5	CLD00114	<b>6</b>	CUD00114	<b>6</b>
<b>1.15.18</b>	Winding wire more than 5 Kg	ROL	15	CLD00115	<b>14</b>	CUD00115	<b>14</b>
<b>1.16</b>	<b>Paints</b>						
<b>1.16.1</b>	Paints up to & including 5 Lts	EA	5	CLD00116	<b>3</b>	CUD00116	<b>3</b>
<b>1.16.2</b>	Paints >5 Lts<=20 Lts	EA	20	CLD00117	<b>12</b>	CUD00117	<b>12</b>
<b>1.16.3</b>	Cement	TO	1000	CLD00118	<b>309</b>	CUD00118	<b>309</b>
<b>1.17</b>	<b>Loading and unloading of any other materials</b>						
<b>1.17.1</b>	Indoor Items up to 10 Kgs	BAG	10	CLD00119	<b>9</b>	CUD00119	<b>9</b>
<b>1.17.2</b>	Indoor Items > 10 Kgs	BAG	25	CLD00120	<b>24</b>	CUD00120	<b>24</b>
<b>1.18</b>	<b>SCRAP</b>						
<b>1.18.1</b>	Al./Cu/Plastic Scrap	TO	1000	CLD00121	<b>673</b>	CUD00121	<b>673</b>
<b>1.18.2</b>	Meters Scrap W/weightment	TO	1000	CLD00122	<b>513</b>	CUD00122	<b>513</b>
<b>1.18.3</b>	MS/Lead Scrap W/weightment	TO	1000	CLD00123	<b>513</b>	CUD00123	<b>513</b>

<b>1.19</b>	<b>Un coiling of conductor/ cables including weighment and loading</b>			
<b>Sl.No.</b>	<b>Description</b>	<b>Rate per</b>	<b>SAP Code</b>	<b>Rate</b>
<b>1.19.1</b>	34sqmm conductor	KM	CSR00001	109
<b>1.19.2</b>	55sqmm conductor	KM	CSR00002	131
<b>1.19.3</b>	100sqmm conductor	KM	CSR00003	164
<b>1.19.4</b>	200sqmm /Panther conductor- 100RM	EA	CSR00004	87
<b>1.19.5</b>	Single Core 120/95/70 Sqmm LT X-PLE cables	1RM	CSR00005	1.2
<b>1.19.6</b>	3 1/2 Core 120/95/70/50 Sqmm LT X-PLE cables	1RM	CSR00006	2.3
<b>1.19.7</b>	Coils 50 / 25 Sqmm	1RM	CSR00007	1.2
<b>1.19.8</b>	Coils 10 / 6 / 4.25 / 1.5 Sqmm	1RM	CSR00008	1.2
<b>1.19.9</b>	Unwinding including loading 11KV Cable XLPE 35, 50, 70, 95, 120,185,300 Sqmm & LT UV XLPE cable 300 Sqmm	Meter	CSR00009	7
<b>1.19.10</b>	Unwinding including loading 33KV Cable XLPE 35, 50, 70, 95, 120,185,300,400 Sqmm	Meter	CSR00010	13
<b>1.19.11</b>	Un Winding , Weighing and Shifting of 3CX16+25 AB Cable (Check Measurement)	KM	CSR00011	131
<b>1.19.12</b>	Un Winding , Weighing and Shifting of 2CX16+25 AB Cable (Check Measurement)	KM	CSR00012	131
<b>2</b>	<b>Survey of HT/LT lines</b>			
2.1	Labour charges for survey and pit marking of HT/LT lines in plain areas	KM	CSR00013	645
2.2	Labour charges for survey and pit marking of HT/LT lines in Agency and Hilly areas.	KM	CSR00014	897
<b>3</b>	<b>Jungle clearance</b>			
3.1	Clearing of heavy jungle	10 sqm	CSR00015	51
3.2	Cutting and removing other kind of trees	1 No	CSR00016	52
3.3	General Tree cutting per one day - Semi skilled labour	1no	CSR00017	714
<b>4</b>	<b>Excavation of pole pits</b>			
<b>4.1</b>	Excavation of pits in <u>all soils</u> , i.e, mixture of gravel and soft disintegrated rock like shales ordinary gravel, stony earth and earth mixed with fair sized boulders.			
<b>4.1.1</b>	For 8m or 9.1m PSCC/RS Joist Poles ( Size of pit is 2'x2'x5' or 0.6mx0.6mx1.5m)	Pit	CSR00018	388
<b>4.1.2</b>	For 10m Joists/Rail Poles ( Size of pit is 2'x2'x5'6" or 0.6mx0.6mx1.65m)	Pit	CSR00019	405
<b>4.1.3</b>	For 9.5m Spun or 11m Spun/Joist /PSCC Poles (2'6"x2'6"x6' or 0.75mx0.75mx1.8m)	Pit	CSR00020	482
<b>4.1.4</b>	For 12.5m Spun/Joist Poles (2'6"x2'6"x7' or 0.75mx0.75mx2.1m)	Pit	CSR00021	562

<b>4.2</b>	Excavation of pits <b>in soft disintegrated rock removable by pick axes</b> and disposing material to a lead of 10m and lift of 3m.			
<b>4.2.1</b>	For 8m or 9.1m PSCC/RS Joist Poles ( Size of pit is 2'x2'x5' or 0.6mx0.6mx1.5m)	Pit	CSR00022	367
<b>4.2.2</b>	For 10m Joists/Rail Poles ( Size of pit is 2'x2'x5'6" or 0.6mx0.6mx1.65m)	Pit	CSR00023	405
<b>4.2.3</b>	For 9.5m Spun or 11m Spun/Joist /PSCC Poles (2'6"x2'6"x6' or 0.75mx0.75mx1.8m)	Pit	CSR00024	689
<b>4.2.4</b>	For 12.5m Spun/Joist Poles (2'6"x2'6"x7' or 0.75mx0.75mx2.1m)	Pit	CSR00025	800
<b>4.3</b>	<b>Excavation of pole pits in hard rock by blasting.</b>			
<b>4.3.1</b>	For 8m or 9.1m PSCC/RS Joist Poles ( Size of pit is 2'x2'x5' or 0.6mx0.6mx1.5m)	Pit	CSR00026	948
<b>4.3.2</b>	For 10m Joists/Rail Poles ( Size of pit is 2'x2'x5'6" or 0.6mx0.6mx1.65m)	Pit	CSR00027	1041
<b>4.3.3</b>	For 9.5m Spun or 11m Spun/Joist /PSCC Poles (2'6"x2'6"x6' or 0.75mx0.75mx1.8m)	Pit	CSR00028	1776
<b>4.3.4</b>	For 12.5m Spun/Joist Poles (2'6"x2'6"x7' or 0.75mx0.75mx2.1m)	Pit	CSR00029	2071
<b>4.4</b>	<b>Excavation of pole pits for all sizes in cement roads( Shall be certified by Deputy Executive Engineer)</b>	Pit	CSR00030	1551
<b>4.5</b>	<b>Excavation of stay pit</b>			
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 Murram HDR and HR requiring blasting and back filling.	Per Pit	CSR00321	315
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	177
<b>4.6</b>	<b>Excavation of pole pit in all soils with pole digging machine</b>	per pit	CSR00323	447
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	296

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	300
5	<b>Transport of one Pole from road side to pit location including loading and unloading (For 1Km, 2Km, 3Km, 4Km and 5 KM)</b>			
5.1	<b>Transport of PSCC poles</b>	Unit		Rate
	<b>Up to 1 Km</b>			
5.1.1	8m/140 KG PSCC Pole	EA	CSR00031	492
5.1.2	8m/200 KG PSCC Pole	EA	CSR00032	552
5.1.3	8m/300 KG PSCC Pole	EA	CSR00033	575
5.1.4	9.1m/280 KG PSCC Pole	EA	CSR00034	726
5.1.5	11m/365 KG PSCC Pole	EA	CSR00035	982
	<b>Up to 2 Km</b>			
5.1.6	8m/140 KG PSCC Pole	EA	CSR00036	553
5.1.7	8m/200 KG PSCC Pole	EA	CSR00037	619
5.1.8	8m/300 KG PSCC Pole	EA	CSR00038	645
5.1.9	9.1m/280 KG PSCC Pole	EA	CSR00039	814
5.1.10	11m/365 KG PSCC Pole	EA	CSR00040	1101
	<b>Up to 3 Km</b>			
5.1.11	8m/140 KG PSCC Pole	EA	CSR00041	612
5.1.12	8m/200 KG PSCC Pole	EA	CSR00042	685
5.1.13	8m/300 KG PSCC Pole	EA	CSR00043	712
5.1.14	9.1m/280 KG PSCC Pole	EA	CSR00044	900
5.1.15	11m/365 KG PSCC Pole	EA	CSR00045	1218
	<b>Up to 4 Km</b>			
5.1.16	8m/140 KG PSCC Pole	EA	CSR00046	670
5.1.17	8m/200 KG PSCC Pole	EA	CSR00047	750
5.1.18	8m/300 KG PSCC Pole	EA	CSR00048	782
5.1.19	9.1m/280 KG PSCC Pole	EA	CSR00049	988
5.1.20	11m/365 KG PSCC Pole	EA	CSR00050	1336
	<b>Up to 5 Km</b>			
5.1.21	8m/140 KG PSCC Pole	EA	CSR00051	730
5.1.22	8m/200 KG PSCC Pole	EA	CSR00052	817
5.1.23	8m/300 KG PSCC Pole	EA	CSR00053	851
5.1.24	9.1m/280 KG PSCC Pole	EA	CSR00054	1074
5.1.25	11m/365 KG PSCC Pole	EA	CSR00055	1454
5.2	<b>Transport of Spun Poles</b>			
	<b>Up to 1 Km</b>			
5.2.1	9.5m/300 KG Spun pole	EA	CSR00056	1126
5.2.2	11m/350KG Spun pole	EA	CSR00057	1314
5.2.3	12.5m/350 KG Spun pole	EA	CSR00058	1434

	<b>Up to 2 Km</b>			
5.2.4	9.5m/300 KG Spun pole	EA	CSR00059	1263
5.2.5	11m/350KG Spun pole	EA	CSR00060	1473
5.2.6	12.5m/350 KG Spun pole	EA	CSR00061	1607
	<b>Up to 3 Km</b>			
5.2.7	9.5m/300 KG Spun pole	EA	CSR00062	1398
5.2.8	11m/350KG Spun pole	EA	CSR00063	1631
5.2.9	12.5m/350 KG Spun pole	EA	CSR00064	1779
	<b>Up to 4 Km</b>			
5.2.10	9.5m/300 KG Spun pole	EA	CSR00065	1533
5.2.11	11m/350KG Spun pole	EA	CSR00066	1787
5.2.12	12.5m/350 KG Spun pole	EA	CSR00067	1950
	<b>Up to 5 Km</b>			
5.2.13	9.5m/300 KG Spun pole	EA	CSR00068	1669
5.2.14	11m/350KG Spun pole	EA	CSR00069	1946
5.2.15	12.5m/350 KG Spun pole	EA	CSR00070	2123
<b>5.3</b>	<b>Transport of RS Joist poles</b>	Unit		
	<b>Up to 1 Km</b>			
5.3.1	9m - 150x75 RS Joist pole	EA	CSR00071	492
5.3.2	9m- 175 x85 RS Joist Pole	EA	CSR00072	575
5.3.3	9m - 150x150 RS Joist Pole	EA	CSR00073	689
	<b>Up to 2 Km</b>			
5.3.4	9m - 150x75 RS Joist pole	EA	CSR00074	553
5.3.5	9m- 175 x85 RS Joist Pole	EA	CSR00075	645
5.3.6	9m - 150x150 RS Joist Pole	EA	CSR00076	772
	<b>Up to 3 Km</b>			
5.3.7	9m - 150x75 RS Joist pole	EA	CSR00077	612
5.3.8	9m- 175 x85 RS Joist Pole	EA	CSR00078	712
5.3.9	9m - 150x150 RS Joist Pole	EA	CSR00079	853
	<b>Up to 4 Km</b>			
5.3.10	9m - 150x75 RS Joist pole	EA	CSR00080	670
5.3.11	9m- 175 x85 RS Joist Pole	EA	CSR00081	782
5.3.12	9m - 150x150 RS Joist Pole	EA	CSR00082	936
	<b>Up to 5 Km</b>			
5.3.13	9m - 150x75 RS Joist pole	EA	CSR00083	730
5.3.14	9m- 175 x85 RS Joist Pole	EA	CSR00084	851
5.3.15	9m - 150x150 RS Joist Pole	EA	CSR00085	1018
<b>5.4</b>	<b>Transport of Rail poles</b>	Unit		
	<b>Up to 1 Km</b>			
5.4.1	8.23m - 60lbs/27.3 Kg Rail pole	EA	CSR00086	552
5.4.2	9.14m - 75lbs/34.1 Kg Rail pole	EA	CSR00087	726
5.4.3	9.14m - 90lbs/40.9Kg Rail pole	EA	CSR00088	766
5.4.4	9.14m - 105lbs/47.7Kg Rail pole	EA	CSR00089	811

	<b>Up to 2 Km</b>			
5.4.5	8.23m - 60lbs/27.3 Kg Rail pole	EA	CSR00090	619
5.4.6	9.14m - 75lbs/34.1 Kg Rail pole	EA	CSR00091	814
5.4.7	9.14m - 90lbs/40.9Kg Rail pole	EA	CSR00092	859
5.4.8	9.14m - 105lbs/47.7Kg Rail pole	EA	CSR00093	907
	<b>Up to 3 Km</b>			
5.4.9	8.23m - 60lbs/27.3 Kg Rail pole	EA	CSR00094	685
5.4.10	9.14m - 75lbs/34.1 Kg Rail pole	EA	CSR00095	900
5.4.11	9.14m - 90lbs/40.9Kg Rail pole	EA	CSR00096	951
5.4.12	9.14m - 105lbs/47.7Kg Rail pole	EA	CSR00097	1006
	<b>Up to 4 Km</b>			
5.4.13	8.23m - 60lbs/27.3 Kg Rail pole	EA	CSR00098	750
5.4.14	9.14m - 75lbs/34.1 Kg Rail pole	EA	CSR00099	988
5.4.15	9.14m - 90lbs/40.9Kg Rail pole	EA	CSR00100	1041
5.4.16	9.14m - 105lbs/47.7Kg Rail pole	EA	CSR00101	1103
	<b>Up to 5 Km</b>			
5.4.17	8.23m - 60lbs/27.3 Kg Rail pole	EA	CSR00102	817
5.4.18	9.14m - 75lbs/34.1 Kg Rail pole	EA	CSR00103	1074
5.4.19	9.14m - 90lbs/40.9Kg Rail pole	EA	CSR00104	1133
5.4.20	9.14m - 105lbs/47.7Kg Rail pole	EA	CSR00105	1199
<b>6</b>	<b>Erection of PSCC/Spun/Rail/RS Joist Poles</b>			
	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.			
<b>6.1</b>	<b>Erection of PSCC poles</b>	Unit		
6.1.1	8m/140 KG PSCC Pole	EA	CSR00106	667
6.1.2	8m/200 KG PSCC Pole	EA	CSR00107	1012
6.1.3	8m/300 KG PSCC Pole	EA	CSR00108	891
6.1.4	9.1m/280 KG PSCC Pole	EA	CSR00109	1871
6.1.5	11m/365 KG PSCC Pole	EA	CSR00110	3245
<b>6.2</b>	<b>Erection of Spun Poles</b>			
6.2.1	9.5m/300 KG Spun pole	EA	CSR00111	2404
6.2.2	11m/350KG Spun pole	EA	CSR00112	3490
6.2.3	12.5m/350 KG Spun pole	EA	CSR00113	4288
<b>6.3</b>	<b>Erection of RS Joist poles</b>			
6.3.1	9m - 150x75 RS Joist pole	EA	CSR00114	612
6.3.2	9m- 175 x85 RS Joist Pole	EA	CSR00115	630
6.3.3	9m - 150x150 RS Joist Pole	EA	CSR00116	1167

<b>6.4</b>	<b>Erection of Rail poles</b>			
6.4.1	8.23m - 60lbs/27.3 Kg Rail pole	EA	CSR00117	1103
6.4.2	9.14m - 75lbs/34.1 Kg Rail pole	EA	CSR00118	1135
6.4.3	9.14m - 90lbs/40.9Kg Rail pole	EA	CSR00119	1156
6.4.4	9.14m - 105lbs/47.7Kg Rail pole	EA	CSR00120	1180
<b>7</b>	<b>Rectification of Leaned poles</b>			
	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	
<b>8</b>	<b>Dismantling works</b>			
	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.	
<b>9</b>	<b>Erection of stay sets</b>			
9.1	Erection of stay set for 33 KV line	EA	CSR00121	300
9.2	Erection of stay set for 11 KV line or LT Line	EA	CSR00122	309
<b>10</b>	<b>Erection of Cross arms</b>			
<b>10.1</b>	<b>33KV Cross arms</b>			
10.1.1	33 KV V X-arms	EA	CSR00123	110
10.1.2	33 KV Top fittings	EA	CSR00124	86
10.1.3	33 KV Tapping Channel X-arm set	EA	CSR00125	127
10.1.4	33 KV Side arm with strut	EA	CSR00126	146
10.1.5	33 KV T Channel Set	EA	CSR00127	146
<b>10.2</b>	<b>11 KV Cross arms</b>			
10.2.1	11 KV V X-arms	EA	CSR00128	89
10.2.2	11 KV Top fittings	EA	CSR00129	56
10.2.3	11 KV Tapping Channel X-arm	EA	CSR00130	101
10.2.4	11 KV Side arm with strut	EA	CSR00131	139
10.2.5	11 KV T Channel Set	EA	CSR00132	121
<b>10.3</b>	<b>LT Cross arms</b>			
10.3.1	LT S Ph. X-arm	EA	CSR00133	79
10.3.2	LT Top fitting	EA	CSR00134	51
10.3.3	LT 3 Ph. 4 / 5 W X-arm	EA	CSR00135	89
10.3.4	LT 3 Ph. Side arm with strut	EA	CSR00136	99
<b>10.4</b>	<b>LT Distribution Boxes</b>			

10.4.1	Labour charges for erection of LT Dist. Box including earthing as per departmental standards.	Each	CSR00324	331
10.5	HT/LT box type side arm	EA	CSR00497	1200
<b>11</b>	<b>Fixing of insulators</b>			
<b>11.1</b>	<b>33 KV Insulators</b>			
11.1.1	33 KV Polymer Pin Insulators	Each	CSR00137	41
11.1.2	33 KV Porcelain Pin Insulators	Each	CSR00138	39
11.1.3	33 KV Composite Polymer/porcelain Disc Insulator	Each	CSR00139	114
<b>11.2</b>	<b>11 KV Insulators</b>			
11.2.1	11 KV Polymer Pin Insulators	Each	CSR00140	39
11.2.2	11 KV Porcelain Pin Insulators	Each	CSR00141	39
11.2.3	11 KV Composite Polymer/ porcelain Disc Insulator	Each	CSR00142	76
<b>11.3</b>	<b>LT Insulators</b>			
11.3.1	LT PI / Shackles	Each	CSR00143	30
<b>12</b>	<b>Erection of Double Pole structure</b>			
	Individual pole erection charges and other relevant items are to be considered to arrive the cost of erection of double pole structure			
<b>13</b>	<b>Erection of Strut</b>			
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	279
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	232
<b>14</b>	<b>Paving, Stringing and Jumpering of Conductor</b>			
14.1	100 sq mm AAAC /Per KM/Per Conductor	KM	CSR00146	6982
14.2	55 sq mm AAAC /Per KM/Per Conductor	KM	CSR00147	3724
14.3	34 sq mm AAAC/Per KM/Per Conductor	KM	CSR00148	3103
14.4	148 sqmm AAAC/ 150 sqmm ACSR conductor/ per KM/ Per Conductor	KM	CSR00498	10000
14.5	33KV Covered conductor including erection of IPC etc	KM	CSR00499	10000
14.6	11KV Covered conductor including erection of IPC etc	KM	CSR00500	6800
14.7	Dismantling charges of covered conductor 33 KV	KM	CSR00501	5000

14.8	Dismantling charges of covered conductor 11 KV	KM	CSR00502	3400
<b>15</b>	<b>Paving , Stringing and Jumpering of Cable</b>			
15.1	2x16+25 sq mm	KM	CSR00149	3490
15.2	3x16+25 sq mm	KM	CSR00150	6026
15.3	11KV AB cable	KM	CSR00151	17242
15.4	1x25+25 sqmm	KM	CSR00503	3035
<b>16</b>	<b>Restrtring of loose spans</b>			
	Charges for restrtring of loose spans	<b>50% of stringing charges</b>		
<b>17</b>	<b>Concreting of pole pits, stay pits and construction of DTR plinths</b>			
	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.			
<b>17.1</b>	<b>Concreting of pole pit</b>			
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	3289
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	3464
<b>17.2</b>	<b>Concreting of stay pit</b>			
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	1672
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	1760

<b>17.3</b>	<b>Construction of DTR plinths</b>			
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	27859
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	26985
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	34960
<b>18</b>	<b>Erection or Dismantlement of DTRs</b>			
	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	696
18.2	3Ph DTRs up to 40 KVA	EA	CSR00161	1226
18.3	3Ph DTRs 63 KVA to 160 KVA	EA	CSR00162	1501
18.4	3Ph DTRs 200 KVA to 500 KVA	EA	CSR00163	2000

<b>19</b>	<b>Erection of earth electrodes</b>			
	Erection of earth electrodes using CI/GI pipes including pit excavation, back filling, bentonite 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	1241
	(b) Excluding cement collar and bentonite powder	EA	CSR00504	776
19.2	CI Pipe 80mm/ 150mm depth up to 3m (10ft)			
	(a) Including cement collar and bentonite powder	EA	CSR00165	1707
	(b) Excluding cement collar and bentonite powder	EA	CSR00505	1086
19.3	Fixing of CI Knob	EA	CSR00326	17
<b>20</b>	<b>Wiring of 3 Phase DTR</b>			
	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 bare conductor supported on insulator fixed to fabricated LV frame including lugging at terminals.			
20.1	Single feeder (open / PVC cable/ XLPE Cable)	EA	CSR00166	1648
20.2	Double feeder (open / PVC cable/ XLPE Cable)	EA	CSR00167	891
20.3	Running of separate earth with 25x4mm GI/ Copper earth flat from transformer neutral bushing to the earth pipe.	RMT	CSR00331	18
<b>21</b>	<b>Earthing of DTRs</b>			
	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	47
<b>22</b>	<b>Security fencing to DTRs</b>			
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	1608

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	4720
<b>23</b>	<b>Erection of HG Fuse sets</b>			
23.1	Erection of HG Fuse sets- 33 KV fuse set	EA	CSR00170	693
23.2	Erection of HG Fuse sets- 11 KV fuse set	EA	CSR00171	457
23.3	Erection of HG Fuse sets- LT fuse set	EA	CSR00172	342
23.4	Erection of 1-Ph 11KV HG Fuse Set	EA	CSR00328	289
<b>24</b>	<b>Extra percentage towards work involving (a) Single Pole (b) Two Pole (c) Three Poles (This rate is applicable to both Urban and Rural areas)</b>			
24.1	Single Pole	EA		50% extra
24.2	Two Poles	EA		25% extra
24.3	Three Poles	EA		No extra
	<b>33/11 KV sub station works</b>			
<b>25</b>	<b>Erection of VCBs with CTs and CR Panels including earthing, wiring and Jumpering with all accessories as per departmental standards.</b>			
25.1	33 KV VCBs	EA	CSR00173	11713
25.2	11 KV VCBs	EA	CSR00174	9942
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	62967

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	46613
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	6050
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	235
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	388
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	2964
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	6630

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	19610
<b>26</b>	<b>Erection of AB switches</b>			
26.1	33 KV AB switch	EA	CSR00175	1932
26.2	11 KV AB switch	EA	CSR00176	1516
26.3	Erection of 1-Ph 11KV AB Switch, Operating rod	EA	CSR00327	610
26.4	Erection 400A AB Switch in 11KV lines	EA	CSR00506	1600
<b>27</b>	<b>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)</b>			
27.1	Painting of old structures - with One coat of Anti corrosive bitumen black paint or red oxide priming coat during LC period.			
	<b>Rate /1 sqm</b>	1sqm	CSR00177	140
	<b>Rate / 1MT</b>	1MT	CSR00178	4355
27.2	Painting of old structures - with One coat of aluminium/ Synthetic enamel paint during LC period.			
	<b>Rate /1 sqm</b>	1sqm	CSR00179	154
	<b>Rate / 1MT</b>	1MT	CSR00180	4786
27.3	Painting of old structures - with <b>two</b> coats of aluminium/ Synthetic enamel paint during LC period.			
	<b>Rate /1 sqm</b>	1sqm	CSR00181	242
	<b>Rate / 1MT</b>	1MT	CSR00182	7522
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.			
	<b>Rate /1 sqm</b>	1sqm	CSR00183	381
	<b>Rate / 1MT</b>	1MT	CSR00184	11876

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 with out construction of trench. / Laying of copper control cables buried in trench or ground and termination.			
28.1	33 KV UG cable	RM	CSR00185	497
28.2	11 KV UG cable	RM	CSR00186	273
28.3	4Corex2.5sqmm	RM	CSR00187	58
28.4	10Corex2.5sqmm	RM	CSR00188	66
<b>29</b>	<b>Erection of Cable Heat Shrunken joints excluding material cost.</b>			
29.1	<b>33 KV cable heat shrunken joint</b>			
29.1.1	up to 185 Sqmm	EA	CSR00189	4097
29.1.2	Above 185 Sqmm	EA	CSR00190	5736
29.2	<b>11 KV cable heat shrunken joint</b>			
29.2.1	Up to 70 Sqmm	EA	CSR00191	1639
29.2.2	95Sqmm to 185Sqmm	EA	CSR00192	2731
29.2.3	Above 185Sqmm	EA	CSR00193	3824
30	11 KV AB cable end termination consisting of 3 phases.	SET	CSR00194	7975
31	<b>Labour charges for erection of 33 or 11 KV C.Ts including all connections.</b>			
31.1	33 KV CTs	EA	CSR00195	388
31.2	11 KV CTs	EA	CSR00196	388
31.3	Erection of 33KV and 11KV CTs including earthing & Jumpering with GI/Copper wire	Each	CSR00215	407
31.4	Erection of 33KV and 11KV CTs including earthing & Jumpering with GI/Copper/MS Flat Earthing	Each	CSR00216	515
31.5	33KV Las- set(station type)	SET	CSR00197	2328
31.6	11KV Las- set(station type)	SET	CSR00198	1939
31.7	33 or 11KV Line type LAs	EA	CSR00199	155
32	Labour charges for erection of HT metering cubicle including all connections and earthing as per departmental standards.	EA	CSR00200	1136
33	Labour charges for erection of HT Trivector meter box including all connections and earthing as per departmental standards.	EA	CSR00201	727
34	Labour charges for fixing of tube light fitting for street light	EA	CSR00202	229

35	Labour charges for fixing of MV/SV lamp fitting for street light	EA	CSR00203	252
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	106
36.2	50x8mm	RM	CSR00205	72
<b>37</b>	<b>M &amp; P Division Items</b>			
	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	40
37.2	Single Phase meter old or new testing	Each	CSR00207	29
37.3	Sealing of Meter bit, including inserting of wire	Each	CSR00208	14
37.4	Winding of trip and close coils including material and without bobbin	Each	CSR00209	1607
37.5	Fixing of 3-Ph LT CT meter at DTR including transport	Each	CSR00210	2259
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	107
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	154
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	162
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	224
37.10	Handling, testing, providing of seals with cover, stacking neatly.			
37.10.1	S phase energy meter.	EA	CSR00217	20

37.10.2	3 Phase energy meter	EA	CSR00218	32
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	9
37.11.2	3 Seals	EA	CSR00220	9
37.11.3	4 Seals	EA	CSR00221	9
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	9
37.12.2	3 Seals	EA	CSR00223	9
37.12.3	4 Seals	EA	CSR00224	9
37.12.4	6 Seals	EA	CSR00225	16
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	49
37.13.2	Excluding cost of paint	EA	CSR00227	36
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	1178
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	543
37.15.3	do. with 4 sets of clamps	EA	CSR00231	635
37.16	HT metering wiring including pipes, bends and wires including cost of pipes, bends and wires	LS	CSR00232	3413
<b>38</b>	<b>Transformer division/ SPM Works</b>			
<b>38.1</b>	<b>Loading or Unloading of PTR in to Lorry</b>			
38.1.1	Loading or Unloading of 1.5MVA/ 3MVA / 3.15MVA PTR	EA	CSR00233	5430
38.1.2	Loading or Unloading of 5MVA PTR	EA	CSR00234	8394
38.1.3	Loading or Unloading of 8MVA PTR	EA	CSR00235	10847
38.1.4	Loading or Unloading of 10MVA	EA	CSR00236	13189
38.1.5	Loading or Unloading of 12.5MVA	EA	CSR00237	14656
<b>38.2</b>	<b>Dragging of PTR on ground</b>			
38.2.1	Dragging of 1.5MVA/3MVA/3.15MVA/5MVA PTR	FT	CSR00238	317
38.2.2	Dragging of 8MVA/10 MVA PTR	FT	CSR00239	368
<b>38.3</b>	<b>Assembling or Dismantling of conservator tank, radiators, vent pipe and other accessories of PTR</b>			
38.3.1	1.5MVA PTR to 5MVA PTR	EA	CSR00240	3393
38.3.2	8MVA PTR to 12.5MVA PTR	EA	CSR00241	4240
<b>38.4</b>	<b>Top up/ removal of Transformer Oil into Conservator tank Radiators and other accessories</b>			
38.4.1	1.5MVA PTR to 5MVA PTR	EA	CSR00242	1812
38.4.2	8MVA PTR to 12.5MVA PTR	EA	CSR00243	2138

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	2792
38.6	Labour charges for reclamation of used transformer oil at MRT shed	Kilo Litre	CSR00245	7757
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	405
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	2828
38.9	Raising /Lowering the Power Transformers up to 10MVACapacity	Each	CSR00344	3111
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	141
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	35
38.11.2	3 Phase DTRs (16, 25,40 KVA)	Each	CSR00398	35
38.11.3	3 Phase DTRs (63, 100 KVA)	Each	CSR00399	51
38.11.4	3 Phase DTRs (160, 250 KVA)	Each	CSR00400	68
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	35
38.12.2	11 KV Potential Transformer	Each	CSR00402	35
38.12.3	33 KV Potential Transformer (1-Ph Type)	Each Lim	CSR00403	35
38.12.4	33 KV Potential Transformer (3-Ph Type)	Each	CSR00404	43
38.12.5	11 KV / 33 KV CTs	Each	CSR00405	35

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	1555
<b>FABRICATION OF LINE MATERIALS</b>				
<b>39</b>	<b>CUTTING CHARGES</b>			
39.1	60 lbs. Rail poles	EA	CSR00247	59
39.2	90 lbs. Rail poles	EA	CSR00248	92
39.3	105 lbs. Rail poles	EA	CSR00249	92
39.4	R.S. Joists of various sizes	EA	CSR00250	47
39.5	M.S. Channels of size 75 x 40 mm. and 80 x 40 mm	EA	CSR00251	16
39.6	M.S. Channels of size 100 x 50 mm. and 125 x 65 mm	EA	CSR00252	17
39.7	M.S. Channels of size 150 x 75 mm. and above	EA	CSR00253	24
39.8	M.S. Angles of sizes 50 x 50 x 6 mm. and 55 x 55 x 5 mm.	EA	CSR00254	9
39.9	M.S. Angles of size 65 x 65 x 6 mm. and above	EA	CSR00255	10
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
<b>40</b>	<b>DRILLING CHARGES</b>			
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	9
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	10
40.2.2	For 60 lbs. Rail poles	EA	CSR00263	12
40.2.3	For 90 lbs. Rail poles	EA	CSR00264	13
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	9
40.3.2	For 60 lbs. Rail poles	EA	CSR00266	10
40.3.3	For 90 lbs. And 120 lbs Rail	EA	CSR00267	12
<b>41</b>	<b>FABRICATION CHARGES</b>			
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	246
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	205
41.2.2	With 65x65x6mm M.S. Angle – . Weight of the materials =8.2 Kgs	EA	CSR00270	159
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	91
41.3.2	With 65x65x6mm M.S. Angle (3'.8") – Weight of the materials = 7 Kgs	EA	CSR00272	91
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	94
41.4.2	With 65x65x6mm M.S. Angle ( 4'.5") – Weight of the materials = 9.6 Kgs	EA	CSR00274	94
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	68
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	223
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	223
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	179
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	179
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	155
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	78
41.7.2	33KV Top Fitting with Clamps with 65x65x6mm M.S. angle . Weight of the materials = 6.5 Kgs.	EA	CSR00282	113

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	121
41.8.2	11KV Top Fittings with Clamps 50x50x6mm M.S. Angle . Weight of the materials = 3.63Kgs.	EA	CSR00284	99
41.8.3	11KV Special Top Fittings with Clamps (2'.0" Height ) 50x50x6mm M.S. Angle – Weight of the materials = 3.6Kgs.	EA	CSR00285	99
41.9	LT Top Fittings with Clamps 50x6mm M.S. Flat – Weight of the materials = 2.4 Kgs.	EA	CSR00286	66
41.10	11KV Tapping Cross arms with (5.6") 100x50mm M.S. Channel – Weight of the materials =13.4 Kgs	EA	CSR00287	124
41.11	11KV Tapping Cross arms with (5.6") 75x40mm M.S. Channel – Weight of the materials = 11.2 Kgs.	EA	CSR00288	182
41.12	33KV Tapping Cross arms with (7'.0") 100x50mm M.S. Channel – Weight of the materials = 16.2 Kgs.	EA	CSR00289	124
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	206
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	298
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	30
41.15.2	With 50x6mm M.S. Flat for 8m/200 Kg Pole – Weight of the materials = 0.924 Kgs.	EA	CSR00293	30
41.15.3	With 75x8mm M.S. Flat for 9.1m/280 Kg Pole – Weight of the materials = 2.17 Kgs.	EA	CSR00294	32
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	49
41.16.2	For 8m/200 Kg Pole – Weight of the materials = 1.416 Kgs.	EA	CSR00296	51
41.16.3	For 9.1m/280 Kg Pole – Weight of the materials = 3.71 Kgs.	EA	CSR00297	61

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	449
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	929
41.19	Spun Pole Clamps			
41.19.1	i) Back Clamps	EA	CSR00300	54
41.19.2	ii) Stay Clamps	EA	CSR00301	44
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	627
41.22	AB Switch OFF & ON Base with Clamp	SET	CSR00304	107
41.23	Fixing of Stay clamp set ( dummy clamp set ) for SPUN poles	Set	CSR00325	55
<b>42</b>	<b>WELDING CHARGES</b>			
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	20
42.1.2	Single welding	25mm	CSR00306	12
42.2	GAS WELDING charges for all steel materials to a length of 25 mm.(1") of weld including cost of gas	25mm	CSR00307	21
43	GAS CUTTING	25mm	CSR00308	10
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	12100
44.1	M+3 Tower Light(2.02MT)	1 No	CSR00310	24443
44.2	M+3 Tower Heavy(2.4MT)	1 No	CSR00311	29042
44.3	M+6 Tower Light(2.4MT)	1 No	CSR00312	29042
44.4	M+6 Tower Heavy(2.8MT)	1 No	CSR00313	33881
44.5	M+9 Tower Light(2.8MT)	1 No	CSR00314	33881
44.6	M+9 Tower Heavy(3.4MT)	1 No	CSR00315	41142
44.7	M+12 Tower Light(3.2MT)	1 No	CSR00316	38723
44.8	M+12 Tower Heavy(4MT)	1 No	CSR00317	48402

<b>45</b>	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	1251
45.2	11KV 300 sqmm	RM	CSR00319	1116
45.3	11KV 185 sqmm	RM	CSR00320	986
	<b>Other Items</b>			
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	135
46.2	Erection, Testing and Commissioning of new 11KV PT as per the Technical specification. (1 No 3-Ph PT )	Each	CSR00345	5060
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	5060
46.4	Erection of 105 lb Rail poles 3 Mt. Long for mounting of PTR on plinth	Each	CSR00347	350
46.5	Erection of 33KV post type/ solid core insulators	Each	CSR00348	334
46.6	Erection of 11KV post type/ solid core insulators	Each	CSR00349	167
46.7	Fixing of Aluminium T-Clamps / AB Switch Pad clamps/ Bus Bar clamps	Each	CSR00350	28
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	66
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	66
46.1	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	16
46.10.2	LT Power cables up to 50 Sqmm	RMT	CSR00354	22
46.10.3	LT Power cables above 50 Sqmm	RMT	CSR00355	29

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	49
46.12.2	LT Power cables up to 50 Sqmm with copper/ Aluminium lugs each core at both ends.	Each	CSR00357	115
46.13	LT Power cables above 50 Sqmm with Aluminium lugs each core at both ends.	Each	CSR00358	209
46.14	Erection of 24 V DC Battery Charger with batteries	Each	CSR00359	431
46.15	Erection of 24 V DC Battery Charger	Each	CSR00360	141
46.16	Erection of 24 V DC Batteries ( 2 Nos 12 V batteries )	Each	CSR00361	290
46.17	Erection of 48 V DC Battery Charger with batteries	Each	CSR00362	863
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	4141
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	4141
46.2	Erection of 220 V, 200 Ah/ 80 Ah maintenance free battery incomplete shape fit for charging.	set	CSR00365	5245
46.21	Erection of 220 V, 200 Ah / 80Ah battery charger	each	CSR00366	5394
46.22	Erection of Sand / water Buckets 9 litres capacity (1 No stand with 4 Nos buckets)	Set	CSR00367	109
46.23	Erection of CO2 Cylinders 5 Kg including transport loading and unloading	Nos.	CSR00368	62
46.24	Labour charges for erection of 1/3 arrangement switch and jumpering	Nos	CSR00369	1173
46.25	Labour charges for erection of 1/1 arrangement switch and jumpering	Nos	CSR00370	1173
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 hight as per departmental standards, including cost of all materials, labour etc. complete.	Each	CSR00371	11930

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	6049
46.28	Erection of Ladder Type Perforated Cable Trays			0
46.29	300 x 50 x 2mm	RM	CSR00373	219
46.3	450 x 50 x 2 mm	RM	CSR00374	289
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	1487
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	55
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 incomers, 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	73983
46.34.3	Transformer cubicles with IED relay	Each	CSR00379	73983
46.34.4	Bus coupler with bus raiser cubicles with IED relay	Each	CSR00380	73983
46.34.5	33 KV PT of ratio 33KV/SQRT(3)/110*SQRT(3) of 0.2 class, Burden 25 VA	Each	CSR00381	6410

46.35	Erection , testing and commissioning of Indoor 33KV switchgear 33KV, 25KA 1250A Vacuum type indoor switchgear with drawout type type circuit breakers of APEPDCL approved make for incomers, 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 compatibility 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	10675
46.35.2	For Transformer cubicles	Each	CSR00383	10675
46.35.3	For Bus coupler cubicles	Each	CSR00384	10675
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	3146
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	8024
46.36.2	For Transformer cubicles	Each	CSR00387	8024
46.36.3	For Bus coupler cubicles	Each	CSR00388	8024
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	981

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	4662
46.37.2	Labour Charges for erection of Galvanised TC, TD, BD and cantilever towers under shutdown conditions	MT	CSR00391	6993
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	11658
46.39	Erection of Marshalling Box	Each	CSR00393	676
46.40	Erection, Wiring, Commissioning of 11KV Auto 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	49256
46.40.2	Erection, Testing & Commissioning of sectionaliser (SCADA Compatible) including galvanised mounting frame for mounting to Spun Poles, cables for incoming and out going, Terminal connectors for connecting incoming and outgoing cables, control cable etc.,	EA	CSR00395	83244
46.41	<b>Numbering of Poles/ Providing of code numbers to Transformers with paint</b>			
46.41.1	Numbering of poles (two coats) including painting black back ground white lettering per	Each pole	CSR00408	43
46.41.2	Numbering of Agricultural services with name of the consumer, service No. and load.	Each pole	CSR00409	70

46.41.3	Providing code numbers to transformers / structures including cost of paint.	Each pole	CSR00410	70
	<b>Service wire Reconnection/Removal</b>			
46.42	Service wire removal / re erection	Each	CSR00411	43
46.43	<b>UG CABLE RATES</b>			
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	643
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	610
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	30
46.44.2	0.45 x 0.45 m for Control/ Power Cables	RM	CSR00415	69
46.45	<b>33KV, 3Core, XLPE Aluminium UG cable works</b>			
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	90

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	94
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	94
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	898
46.46	<b>Laying of Cable up to ground level from 33 KV Feeder Outgoing Isolator.</b>			
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	3491
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	94

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	7423
46.47	<b>Erection and Testing of 33 KV RMUs</b>			
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	51827
46.48	<b>Laying and Testing of 11KV, 3Core, 300 Sq.mm,XLPE aluminium UG cable</b>			
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	49
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	883
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	68

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	101
46.49	<b>Laying and testing of Cable up to ground level from 11 KV Feeder outgoing Isolator</b>			
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	3880
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	64
46.5	<b>Laying and Testing of Cable from RMU outgoing to DTR HV bushings</b>			
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	56
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	68

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	62
46.51	<b>Laying and Testing of Cable from RMU Outgoing to HT Service Metering Cubical Point</b>			
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	56
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	68
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	94
46.52	<b>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.</b>			
46.52.1	300 Sq.mm	Each	CSR00436	4948
46.52.2	185 Sq.mm	Each	CSR00437	3535
46.52.3	11KV end kit termination joint with heat shrinkable ( Any size of the cable)	Each	CSR00507	1000

46.52.4	33KV end kit termination joint with heat shrinkable ( Any size of the cable)	Each	CSR00508	1500
46.53	<b>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 &amp; testing charges, transportation of all materials from Section Office to work spot, loading and unloading.</b>			
46.53.1	5 Way RMU (2 load break switches and 3 Circuit Breaker)	Each	CSR00438	26978
46.53.2	3 Way RMU (2 load break switches and 1 Circuit Breaker)	Each	CSR00439	17080
46.54	<b>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 &amp; transformer boxes as per the specification. This cost includes fixing, transportation of all materials from Section Office to work spot, loading and unloading.</b>			
46.54.1	500 KVA	Each	CSR00440	70
46.54.2	315 KVA	Each	CSR00441	70
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	56
46.55.2	315 KVA	Each	CSR00443	56
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	16214

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	14
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	1792
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	35
46.59.2	120 Sq.mm	Mtr	CSR00448	35
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	35
46.60.2	120 Sq mm	Mtr	CSR00450	35

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	38
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	12428
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	7694
46.63.2	7.0 Mtrs GI joist of size 175*75 mm	Each	CSR00454	5995
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	2109
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	2109

46.67	SP-3: Three Phase FRP Distribution Box with 6Each Three Phase Service Connections, 100 amps capacity Ledger and 200amps Busbar	Each	CSR00457	2109
46.68	SP-4: Three Phase FRP Distribution Box with 20Each Single Phase Service Connections, 100 amps capacity Ledger and 200amps Busbar	Each	CSR00458	2109
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	16
46.69.2	4 Core 16 Sq.mm	Mtr	CSR00460	16
46.69.3	2 Core 10 Sq.mm	Mtr	CSR00461	16
46.69.4	3 1/2 Core 70 Sq.mm for Street Light	Mtr	CSR00462	23
46.69.5	2 Core 25 Sq.mm for Street Light	Mtr	CSR00463	16
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	26
46.70.2	4 Core 16 Sq.mm	Mtr	CSR00465	23
46.70.3	2 Core 10 Sq.mm	Mtr	CSR00466	14
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	876
46.71.2	3 1/2 Core, 120 Sq.mm	Each	CSR00468	876
46.71.3	1 Core, 630 Sq.mm	Each	CSR00469	876
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	876
46.72.2	120 Sq.mm	Each	CSR00471	876

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	16
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	308
46.74.2	4 Core 16 Sq.mm	Each	CSR00474	308
46.74.3	2 Core 10 Sqmm	Each	CSR00475	154
46.74.4	3 1/2Core 70 Sq.mm for Street Light	Each	CSR00476	1012
46.74.5	2 Core 25 Sq.mm for Street Light	Each	CSR00477	154
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	141
46.75.2	4 Core 16 Sq.mm	Each	CSR00479	141
46.75.3	2 Core 10 Sq.mm	Each	CSR00480	141
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	68
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	20
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	673
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	1060

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	8
46.80.3	Laying of 160mm DWC Duct (including 1 Coupler with O- Ring every 6 meters straight length) for Telecom Network.	Mtr	CSR00487	14
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	4277
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	72
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	56

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	1117
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	8306
46.82.2	GI Channels - 75 mmX40mm	MT	CSR00493	8306
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	8131
46.83.2	GI angle - 65X65X6 mm	MT	CSR00495	8131
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	7359
<b>46.85</b>	<b>Erection of DTR Structure</b>			
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	849
46.85.2	Labour charges for erection of SP Structure (seating arrangement) complete for mounting S- Ph Transformer including earthing as per departmental standars.	Each	CSR00330	566

**47 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	32	CTR00036	36	484	CTR00071	71	866
CTR00002	2	44	CTR00037	37	493	CTR00072	72	878
CTR00003	3	61	CTR00038	38	505	CTR00073	73	889
CTR00004	4	74	CTR00039	39	516	CTR00074	74	900
CTR00005	5	88	CTR00040	40	527	CTR00075	75	911
CTR00006	6	101	CTR00041	41	538	CTR00076	76	922
CTR00007	7	114	CTR00042	42	550	CTR00077	77	932
CTR00008	8	126	CTR00043	43	559	CTR00078	78	944
CTR00009	9	140	CTR00044	44	571	CTR00079	79	954
CTR00010	10	154	CTR00045	45	582	CTR00080	80	966
CTR00011	11	167	CTR00046	46	593	CTR00081	81	977
CTR00012	12	180	CTR00047	47	605	CTR00082	82	988
CTR00013	13	193	CTR00048	48	614	CTR00083	83	998
CTR00014	14	206	CTR00049	49	626	CTR00084	84	1009
CTR00015	15	220	CTR00050	50	636	CTR00085	85	1020
CTR00016	16	233	CTR00051	51	648	CTR00086	86	1032
CTR00017	17	246	CTR00052	52	659	CTR00087	87	1042
CTR00018	18	259	CTR00053	53	670	CTR00088	88	1054
CTR00019	19	272	CTR00054	54	680	CTR00089	89	1064
CTR00020	20	286	CTR00055	55	692	CTR00090	90	1075
CTR00021	21	299	CTR00056	56	702	CTR00091	91	1086
CTR00022	22	312	CTR00057	57	714	CTR00092	92	1097
CTR00023	23	325	CTR00058	58	724	CTR00093	93	1108
CTR00024	24	338	CTR00059	59	736	CTR00094	94	1120
CTR00025	25	352	CTR00060	60	746	CTR00095	95	1129
CTR00026	26	365	CTR00061	61	757	CTR00096	96	1141
CTR00027	27	377	CTR00062	62	768	CTR00097	97	1152
CTR00028	28	391	CTR00063	63	779	CTR00098	98	1163
CTR00029	29	404	CTR00064	64	790	CTR00099	99	1175
CTR00030	30	418	CTR00065	65	802	CTR00100	100	1184
CTR00031	31	428	CTR00066	66	811	CTR00101	101	1196
CTR00032	32	439	CTR00067	67	823	CTR00102	102	1,207
CTR00033	33	450	CTR00068	68	834	CTR00103	103	1,218
CTR00034	34	462	CTR00069	69	845	CTR00104	104	1,229
CTR00035	35	472	CTR00070	70	856	CTR00105	105	1,240

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	1,250	CTR00141	141	1,634	CTR00176	176	2,018
CTR00107	107	1,262	CTR00142	142	1,645	CTR00177	177	2,029
CTR00108	108	1,272	CTR00143	143	1,656	CTR00178	178	2,040
CTR00109	109	1,284	CTR00144	144	1,667	CTR00179	179	2,051
CTR00110	110	1,294	CTR00145	145	1,678	CTR00180	180	2,063
CTR00111	111	1,306	CTR00146	146	1,690	CTR00181	181	2,072
CTR00112	112	1,316	CTR00147	147	1,699	CTR00182	182	2,084
CTR00113	113	1,327	CTR00148	148	1,711	CTR00183	183	2,094
CTR00114	114	1,338	CTR00149	149	1,722	CTR00184	184	2,106
CTR00115	115	1,350	CTR00150	150	1,733	CTR00185	185	2,117
CTR00116	116	1,360	CTR00151	151	1,745	CTR00186	186	2,128
CTR00117	117	1,372	CTR00152	152	1,754	CTR00187	187	2,138
CTR00118	118	1,381	CTR00153	153	1,766	CTR00188	188	2,150
CTR00119	119	1,393	CTR00154	154	1,777	CTR00189	189	2,160
CTR00120	120	1,404	CTR00155	155	1,788	CTR00190	190	2,172
CTR00121	121	1,415	CTR00156	156	1,799	CTR00191	191	2,182
CTR00122	122	1,426	CTR00157	157	1,810	CTR00192	192	2,194
CTR00123	123	1,436	CTR00158	158	1,820	CTR00193	193	2,204
CTR00124	124	1,448	CTR00159	159	1,832	CTR00194	194	2,215
CTR00125	125	1,459	CTR00160	160	1,842	CTR00195	195	2,226
CTR00126	126	1,470	CTR00161	161	1,854	CTR00196	196	2,238
CTR00127	127	1,481	CTR00162	162	1,865	CTR00197	197	2,248
CTR00128	128	1,493	CTR00163	163	1,876	CTR00198	198	2,260
CTR00129	129	1,502	CTR00164	164	1,886	CTR00199	199	2,269
CTR00130	130	1,514	CTR00165	165	1,897	CTR00200	200	2,281
CTR00131	131	1,524	CTR00166	166	1,908	CTR00201	201	2,292
CTR00132	132	1,536	CTR00167	167	1,920	CTR00202	202	2,303
CTR00133	133	1,547	CTR00168	168	1,930	CTR00203	203	2,315
CTR00134	134	1,558	CTR00169	169	1,942	CTR00204	204	2,324
CTR00135	135	1,568	CTR00170	170	1,951	CTR00205	205	2,336
CTR00136	136	1,580	CTR00171	171	1,963	CTR00206	206	2,347
CTR00137	137	1,590	CTR00172	172	1,974	CTR00207	207	2,358
CTR00138	138	1,602	CTR00173	173	1,985	CTR00208	208	2,369
CTR00139	139	1,612	CTR00174	174	1,996	CTR00209	209	2,381
CTR00140	140	1,624	CTR00175	175	2,008	CTR00210	210	2,390

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	2,402	CTR00246	246	2,785	CTR00281	281	3,169
CTR00212	212	2,412	CTR00247	247	2,796	CTR00282	282	3,181
CTR00213	213	2,424	CTR00248	248	2,808	CTR00283	283	3,191
CTR00214	214	2,435	CTR00249	249	2,818	CTR00284	284	3,203
CTR00215	215	2,446	CTR00250	250	2,830	CTR00285	285	3,212
CTR00216	216	2,456	CTR00251	251	2,839	CTR00286	286	3,224
CTR00217	217	2,467	CTR00252	252	2,851	CTR00287	287	3,235
CTR00218	218	2,478	CTR00253	253	2,862	CTR00288	288	3,246
CTR00219	219	2,490	CTR00254	254	2,873	CTR00289	289	3,257
CTR00220	220	2,500	CTR00255	255	2,885	CTR00290	290	3,269
CTR00221	221	2,512	CTR00256	256	2,896	CTR00291	291	3,278
CTR00222	222	2,522	CTR00257	257	2,906	CTR00292	292	3,290
CTR00223	223	2,533	CTR00258	258	2,917	CTR00293	293	3,300
CTR00224	224	2,544	CTR00259	259	2,928	CTR00294	294	3,312
CTR00225	225	2,555	CTR00260	260	2,939	CTR00295	295	3,323
CTR00226	226	2,566	CTR00261	261	2,951	CTR00296	296	3,334
CTR00227	227	2,578	CTR00262	262	2,960	CTR00297	297	3,344
CTR00228	228	2,588	CTR00263	263	2,972	CTR00298	298	3,355
CTR00229	229	2,599	CTR00264	264	2,982	CTR00299	299	3,366
CTR00230	230	2,610	CTR00265	265	2,994	CTR00300	300	3,378
CTR00231	231	2,621	CTR00266	266	3,005	CTR00301	301	3,388
CTR00232	232	2,633	CTR00267	267	3,016	CTR00302	302	3,400
CTR00233	233	2,642	CTR00268	268	3,026	CTR00303	303	3,410
CTR00234	234	2,654	CTR00269	269	3,038	CTR00304	304	3,421
CTR00235	235	2,665	CTR00270	270	3,048	CTR00305	305	3,432
CTR00236	236	2,676	CTR00271	271	3,060	CTR00306	306	3,443
CTR00237	237	2,687	CTR00272	272	3,070	CTR00307	307	3,455
CTR00238	238	2,698	CTR00273	273	3,082	CTR00308	308	3,466
CTR00239	239	2,708	CTR00274	274	3,092	CTR00309	309	3,476
CTR00240	240	2,720	CTR00275	275	3,103	CTR00310	310	3,487
CTR00241	241	2,730	CTR00276	276	3,114	CTR00311	311	3,498
CTR00242	242	2,742	CTR00277	277	3,125	CTR00312	312	3,509
CTR00243	243	2,753	CTR00278	278	3,136	CTR00313	313	3,521
CTR00244	244	2,764	CTR00279	279	3,148	CTR00314	314	3,530
CTR00245	245	2,774	CTR00280	280	3,158	CTR00315	315	3,542

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	3,553	CTR00351	351	3,936	CTR00386	386	4,321
CTR00317	317	3,564	CTR00352	352	3,948	CTR00387	387	4,331
CTR00318	318	3,575	CTR00353	353	3,958	CTR00388	388	4,343
CTR00319	319	3,586	CTR00354	354	3,970	CTR00389	389	4,354
CTR00320	320	3,596	CTR00355	355	3,980	CTR00390	390	4,364
CTR00321	321	3,608	CTR00356	356	3,991	CTR00391	391	4,375
CTR00322	322	3,618	CTR00357	357	4,002	CTR00392	392	4,386
CTR00323	323	3,630	CTR00358	358	4,013	CTR00393	393	4,397
CTR00324	324	3,640	CTR00359	359	4,025	CTR00394	394	4,409
CTR00325	325	3,652	CTR00360	360	4,036	CTR00395	395	4,418
CTR00326	326	3,662	CTR00361	361	4,046	CTR00396	396	4,430
CTR00327	327	3,673	CTR00362	362	4,057	CTR00397	397	4,441
CTR00328	328	3,684	CTR00363	363	4,069	CTR00398	398	4,452
CTR00329	329	3,696	CTR00364	364	4,079	CTR00399	399	4,463
CTR00330	330	3,706	CTR00365	365	4,091	CTR00400	400	4,474
CTR00331	331	3,718	CTR00366	366	4,100	CTR00401	401	4,484
CTR00332	332	3,728	CTR00367	367	4,112	CTR00402	402	4,496
CTR00333	333	3,739	CTR00368	368	4,123	CTR00403	403	4,506
CTR00334	334	3,751	CTR00369	369	4,134	CTR00404	404	4,518
CTR00335	335	3,761	CTR00370	370	4,145	CTR00405	405	4,528
CTR00336	336	3,773	CTR00371	371	4,156	CTR00406	406	4,540
CTR00337	337	3,784	CTR00372	372	4,166	CTR00407	407	4,550
CTR00338	338	3,794	CTR00373	373	4,178	CTR00408	408	4,561
CTR00339	339	3,805	CTR00374	374	4,188	CTR00409	409	4,572
CTR00340	340	3,816	CTR00375	375	4,200	CTR00410	410	4,584
CTR00341	341	3,827	CTR00376	376	4,211	CTR00411	411	4,595
CTR00342	342	3,839	CTR00377	377	4,222	CTR00412	412	4,606
CTR00343	343	3,848	CTR00378	378	4,232	CTR00413	413	4,616
CTR00344	344	3,860	CTR00379	379	4,243	CTR00414	414	4,627
CTR00345	345	3,870	CTR00380	380	4,254	CTR00415	415	4,639
CTR00346	346	3,882	CTR00381	381	4,266	CTR00416	416	4,649
CTR00347	347	3,893	CTR00382	382	4,276	CTR00417	417	4,661
CTR00348	348	3,904	CTR00383	383	4,288	CTR00418	418	4,670
CTR00349	349	3,914	CTR00384	384	4,298	CTR00419	419	4,682
CTR00350	350	3,926	CTR00385	385	4,309	CTR00420	420	4,693

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	4,704	CTR00456	456	5,088	CTR00491	491	5,472
CTR00422	422	4,715	CTR00457	457	5,099	CTR00492	492	5,483
CTR00423	423	4,727	CTR00458	458	5,110	CTR00493	493	5,494
CTR00424	424	4,736	CTR00459	459	5,120	CTR00494	494	5,504
CTR00425	425	4,748	CTR00460	460	5,131	CTR00495	495	5,515
CTR00426	426	4,758	CTR00461	461	5,142	CTR00496	496	5,527
CTR00427	427	4,770	CTR00462	462	5,154	CTR00497	497	5,537
CTR00428	428	4,781	CTR00463	463	5,165	CTR00498	498	5,549
CTR00429	429	4,792	CTR00464	464	5,176	CTR00499	499	5,558
CTR00430	430	4,802	CTR00465	465	5,186	CTR00500	500	5,570
CTR00431	431	4,814	CTR00466	466	5,197	CTR00501	501	5,581
CTR00432	432	4,824	CTR00467	467	5,209	CTR00502	502	5,592
CTR00433	433	4,836	CTR00468	468	5,219	CTR00503	503	5,603
CTR00434	434	4,846	CTR00469	469	5,231	CTR00504	504	5,615
CTR00435	435	4,858	CTR00470	470	5,242	CTR00505	505	5,624
CTR00436	436	4,868	CTR00471	471	5,252	CTR00506	506	5,636
CTR00437	437	4,879	CTR00472	472	5,263	CTR00507	507	5,646
CTR00438	438	4,891	CTR00473	473	5,274	CTR00508	508	5,658
CTR00439	439	4,901	CTR00474	474	5,285	CTR00509	509	5,669
CTR00440	440	4,913	CTR00475	475	5,297	CTR00510	510	5,680
CTR00441	441	4,924	CTR00476	476	5,306	CTR00511	511	5,690
CTR00442	442	4,934	CTR00477	477	5,318	CTR00512	512	5,701
CTR00443	443	4,945	CTR00478	478	5,329	CTR00513	513	5,712
CTR00444	444	4,957	CTR00479	479	5,340	CTR00514	514	5,724
CTR00445	445	4,967	CTR00480	480	5,351	CTR00515	515	5,735
CTR00446	446	4,979	CTR00481	481	5,362	CTR00516	516	5,746
CTR00447	447	4,988	CTR00482	482	5,372	CTR00517	517	5,758
CTR00448	448	5,000	CTR00483	483	5,384	CTR00518	518	5,767
CTR00449	449	5,011	CTR00484	484	5,394	CTR00519	519	5,779
CTR00450	450	5,022	CTR00485	485	5,406	CTR00520	520	5,789
CTR00451	451	5,033	CTR00486	486	5,416	CTR00521	521	5,801
CTR00452	452	5,044	CTR00487	487	5,428	CTR00522	522	5,812
CTR00453	453	5,054	CTR00488	488	5,438	CTR00523	523	5,822
CTR00454	454	5,066	CTR00489	489	5,449	CTR00524	524	5,833
CTR00455	455	5,076	CTR00490	490	5,461	CTR00525	525	5,845

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	5,855	CTR00561	561	6,239	CTR00596	596	6,623
CTR00527	527	5,867	CTR00562	562	6,250	CTR00597	597	6,634
CTR00528	528	5,876	CTR00563	563	6,260	CTR00598	598	6,646
CTR00529	529	5,888	CTR00564	564	6,272	CTR00599	599	6,655
CTR00530	530	5,899	CTR00565	565	6,282	CTR00600	600	6,667
CTR00531	531	5,910	CTR00566	566	6,294	CTR00601	601	6,677
CTR00532	532	5,921	CTR00567	567	6,305	CTR00602	602	6,689
CTR00533	533	5,932	CTR00568	568	6,316	CTR00603	603	6,700
CTR00534	534	5,942	CTR00569	569	6,328	CTR00604	604	6,710
CTR00535	535	5,954	CTR00570	570	6,337	CTR00605	605	6,721
CTR00536	536	5,964	CTR00571	571	6,349	CTR00606	606	6,732
CTR00537	537	5,976	CTR00572	572	6,360	CTR00607	607	6,743
CTR00538	538	5,987	CTR00573	573	6,371	CTR00608	608	6,755
CTR00539	539	5,998	CTR00574	574	6,382	CTR00609	609	6,764
CTR00540	540	6,008	CTR00575	575	6,392	CTR00610	610	6,776
CTR00541	541	6,019	CTR00576	576	6,403	CTR00611	611	6,787
CTR00542	542	6,031	CTR00577	577	6,415	CTR00612	612	6,798
CTR00543	543	6,042	CTR00578	578	6,425	CTR00613	613	6,809
CTR00544	544	6,053	CTR00579	579	6,437	CTR00614	614	6,820
CTR00545	545	6,064	CTR00580	580	6,446	CTR00615	615	6,830
CTR00546	546	6,074	CTR00581	581	6,458	CTR00616	616	6,842
CTR00547	547	6,085	CTR00582	582	6,469	CTR00617	617	6,852
CTR00548	548	6,097	CTR00583	583	6,480	CTR00618	618	6,864
CTR00549	549	6,107	CTR00584	584	6,491	CTR00619	619	6,875
CTR00550	550	6,119	CTR00585	585	6,503	CTR00620	620	6,886
CTR00551	551	6,130	CTR00586	586	6,512	CTR00621	621	6,898
CTR00552	552	6,140	CTR00587	587	6,524	CTR00622	622	6,907
CTR00553	553	6,151	CTR00588	588	6,534	CTR00623	623	6,919
CTR00554	554	6,162	CTR00589	589	6,546	CTR00624	624	6,930
CTR00555	555	6,173	CTR00590	590	6,557	CTR00625	625	6,941
CTR00556	556	6,185	CTR00591	591	6,568	CTR00626	626	6,952
CTR00557	557	6,194	CTR00592	592	6,578	CTR00627	627	6,962
CTR00558	558	6,206	CTR00593	593	6,589	CTR00628	628	6,973
CTR00559	559	6,216	CTR00594	594	6,601	CTR00629	629	6,985
CTR00560	560	6,228	CTR00595	595	6,612	CTR00630	630	6,995

631Km to 665Km			666Km to 700Km		
SAP Service code	Lead in KM	Rate/ MT	SAP Service code	Lead in KM	Rate/ MT
CTR00631	631	7,007	CTR00666	666	7,391
CTR00632	632	7,018	CTR00667	667	7,400
CTR00633	633	7,028	CTR00668	668	7,412
CTR00634	634	7,039	CTR00669	669	7,422
CTR00635	635	7,050	CTR00670	670	7,434
CTR00636	636	7,061	CTR00671	671	7,445
CTR00637	637	7,073	CTR00672	672	7,456
CTR00638	638	7,082	CTR00673	673	7,468
CTR00639	639	7,094	CTR00674	674	7,477
CTR00640	640	7,104	CTR00675	675	7,489
CTR00641	641	7,116	CTR00676	676	7,500
CTR00642	642	7,127	CTR00677	677	7,511
CTR00643	643	7,138	CTR00678	678	7,522
CTR00644	644	7,148	CTR00679	679	7,534
CTR00645	645	7,160	CTR00680	680	7,543
CTR00646	646	7,171	CTR00681	681	7,555
CTR00647	647	7,182	CTR00682	682	7,565
CTR00648	648	7,193	CTR00683	683	7,577
CTR00649	649	7,204	CTR00684	684	7,588
CTR00650	650	7,216	CTR00685	685	7,598
CTR00651	651	7,225	CTR00686	686	7,609
CTR00652	652	7,237	CTR00687	687	7,620
CTR00653	653	7,247	CTR00688	688	7,631
CTR00654	654	7,259	CTR00689	689	7,643
CTR00655	655	7,270	CTR00690	690	7,652
CTR00656	656	7,280	CTR00691	691	7,664
CTR00657	657	7,291	CTR00692	692	7,675
CTR00658	658	7,303	CTR00693	693	7,686
CTR00659	659	7,313	CTR00694	694	7,697
CTR00660	660	7,325	CTR00695	695	7,708
CTR00661	661	7,334	CTR00696	696	7,718
CTR00662	662	7,346	CTR00697	697	7,730
CTR00663	663	7,357	CTR00698	698	7,741
CTR00664	664	7,368	CTR00699	699	7,752
CTR00665	665	7,379	CTR00700	700	7,763

## 48 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

SI 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)	<b>40%</b>
2	Greater Municipal Corporations	Greater Visakhapatnam and Vijayawada Municipal Corporations (Up to a belt of 12 Km from Municipal Corporation Limits)	<b>40%</b>
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)	<b>25%</b>
4	District Head quarters	All District Headquarters and the remaining Municipal Limits ( Up to a belt of 12Km from Municipal limits)	<b>20%</b>
5	Tirumala Hills	Tirumala hills in Chittoor District	<b>40%</b>
6	Horsely Hills	Horsely hills in Chittoor District	<b>30%</b>
7	Tirumala Temple	20% Extra over the basic rate of labour component specified for Tirumala hills	<b>68%</b>
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	<b>50%</b>
9	Jail compounds	In Jail compounds only equivalent number of Man mazdoor shall be provided and no Women mazdoor are allowed inside	<b>20%</b>

10	Industrial area	Extra percentage is allowed within 10Km belt of following Industrial areas	<b>20%</b>
		1) Krishna Dist - Ibrahimpatnam, Vuyyuru and Jaggaiahpeta 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	
11	Agency/Tribal Areas (Up to 16km)	Works located within & upto 16 Km from any all weather route inside Agency/ Tribal areas	<b>25%</b>
12	Agency/Tribal Areas (beyond 16km)	Works located beyond 16 Km from any all weather route inside Agency/ Tribal areas	<b>40%</b>
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	<b>1.5 times length of road</b>
14	Other Hill Areas	All other Hill areas	<b>30%</b>
		<b>Extra labour charges based on nature of emergency and time of work</b>	
15(a)	Emergency rectification works	Heavy rain, gale, floods, cyclone alarming time and accident rectification works from 6.00PM to 6.00AM	<b>50%</b>
15(b)	Emergency rectification works	Heavy rain, gale, floods, cyclone alarming time and accident rectification works from 6.00AM to 6.00PM	<b>30%</b>
16 (a)	Emergency replacement of DTRs	Replacement of failed DTRs from 6.00PM to 6.00AM	<b>40%</b>
16(b)	Emergency replacement of DTRs	Replacement of failed DTRs from 6.00AM to 6.00PM	<b>25%</b>

**49**      **1) GST and statutory payments borne by the Discoms.**  
**2) Contractors Profit and overhead charges**

SL No	Description of Item		
<b>1</b>	<b>All the labour rates in SSR and material rates (except Petrol &amp; 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.</b>		
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	<b>1%</b>	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	<b>18%</b>	To be applied at the end of estimate. GST rate from 1-7-2017 to till date
<b>2</b>	<b>Contractors Profit and Over head charges</b>		
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		<b>13.615%</b>
ii)	Works costing between Rs 50 lakh and Rs 1 Crore		<b>7%</b>
ii)	Works costing between Rs 10 lakh and Rs 50 lakh		<b>4%</b>