



## CAPEX PROPOSAL FOR FY 26-27

### Volume -II ANNEXURES

SUBMITTED BY  
**TP WESTERN ODISHA DISTRIBUTION LTD.**



## LIST OF CONTENTS

Annexure No.	Particulars	Page No.
1	Proposal for Laying of 33 kV Underground Cable at NH / SH Crossings	1
2	Proposal for Installation of 11 kV Overhead Cradle Guard at Road Crossings	3
3	Proposal for Laying of 33 kV and 11 kV Underground Cables at Railway Crossings	5
4	Proposal for Replacement of HT / LT Bare Conductor with Insulated Conductor	8
5	Proposal for Intermediate Pole to increase height of 33 kV & 11 kV Network	11
6	Proposal for Procurement of Testing Equipment	14
7	Proposal for Meter Testing Lab	16
8	Proposal for Procurement of Safety Equipment	19
9	Proposal for Access Road for inside and outside of PSS	20
10	Proposal for Renovation / Construction of Control Room Building in PSS	23
11	Proposal for Provision for Water Supply arrangement for PSS	28
12	Proposal for PSS Boundary wall	32
13	Proposal for DSS Fencing	35
14	Proposal for Earthing for PSS & DSS	38
15	Proposal for Installation of 1ph Smart Meters	44
16	Proposal for Installation of 3ph Smart Meters at Agriculture LI Connections	54
17	Proposal for Installation of Meters inside PSS for Energy Audit	60
18	Proposal for DTR Smart Metering for Energy Audit	64
19	Proposal for High Value Industrial Audit Point Metering	68
20	Proposal for LT Check Metering on HT consumers for Energy Audit	71
21	Proposal for Replacement of LT Bare Conductor with AB Cable	75
22	Proposal for Installation / Replacement of 33 kV Breaker / Group Breaker	77
23	Proposal for Installation of LA (33 kV & 11 kV) in PSS	80
24	Proposal for Replacement of feeder protection Relays (O/C & E/F)	89
25	Proposal for Installation of Station Transformer – 33 / 0.4 kV 100 kVA Transformer	92
26	Proposal for Replacement of Battery & Battery Charger / ACDB Panel / DCDB Panel	94
27	Proposal for Refurbishment of PSS (Switchyard fencing, Bus heightening, Earth Pit water arrangement, Cable Trench, Trench Cover, Toe wall, etc.)	99
28	Proposal for Automation of Non-ODSSP & SCADA integration in PSS	103
29	<b>Augmentation of old 33 kV Line (for aged lines or to mitigate overloading / undervoltage)</b>	
29.1	33kV Line Augmentation of Agalpur (Melchhamunda) Feeder from Barpali GSS to T-off of Charmunda PSS	106
29.2	33kV Line Augmentation of Thuapali feeder from Thuapali PSS to Bheden PSS.	111
29.3	33kV Line Augmentation of Patnagarh Feeder from Patnagarh GSS to Patnagarh PSS	115
29.4	33kV Line Augmentation of Dharamgarh New Feeder from Brundabahal GSS to Dharamgarh PSS	120

Annexure No.	Particulars	Page No.
29.5	33KV Bhawanipatna-2 Feeder Augmentation from Tapping of Utkela Airport to Raisingpur PSS	124
29.6	33KV Bhawanipatna-2 Feeder Augmentation from Kesinga Chowk to Christian House	128
29.7	33KV Bhawanipatna-2 Feeder Augmentation from Kesinga Chowk to Karlapada Tapping	132
29.8	33kV Rourkela-I feeder trunk line augmentation from Mandiakudar PSS to Bajrang Steel.	136
29.9	33kV Line Augmentation of Lephipada feeder Kalobahal 4 pole to Garjanbahal PSS	141
29.10	33KV line Augmentation of PGCIL outgoing feeder from NIT PSS to PGCIL	146
29.11	33kV Line Augmentation of Basanti feeder from Chhend GSS(Near By) to Ring road	151
29.12	33KV line augmentation of Industrial Estate feeder from Kachrapulia to Utkal Flourmill	155
29.13	33KV line augmentation of Pilot Project feeder from Kachrapulia to STI overbridge.	160
29.14	33KV line augmentation of Purnapani feeder from Akanksha Hostel to Sarvesh Factory	164
29.15	33V Line Augmentation Rajamunda feeder from Rajamunda PSS to Vidya Minerals	169
29.16	33kV Line Augmentation Bonai feeder from Bonai PSS to Shivshakti Metalics	174
29.17	33kV Line augmentation of Industrial -1 feeder from Budhipadar GSS to first DP structure and T-off to JYOTI PETRO CHEMICALS(HTC)	180
29.18	33kV Line augmentation of Cherupada feeder near Queens play school	185
29.19	33kV Line Augmentation With Covered Conductor From Powerhouse Pada To Nursinga Mandir	189
29.20	33kV Line augmentation of Jharupada feeder from Kanjihjaran to Balaji Road.	193
29.21	33kV Line augmentation of OPGC feeder from Remja GSS to Bandhbahal PSS	196
29.22	33kV line augmentation of Godbhaga feeder from Gosala PSS to Godbhaga PSS.	201
29.23	Replacement of Sick Cable from Akankshya Hostel to Kalinga Bihar PSS of 33kV Kalinga Bihar PSS	206
<b>30</b>	<b>Augmentation of old 11 kV Line (for aged lines or to mitigate overloading / undervoltage)</b>	
30.1	11kV line augmentation of Bondamunda feeder from PSS to Kapatmunda(Tail end)	211
30.2	11kV line augmentation of Overloaded cable of MS Pali Feeder near PSS.	217

Annexure No.	Particulars	Page No.
30.3	11kV line augmentation of OSAP feeder from NIT PSS to sector-5	221
30.4	11kV line augmentation of Industry-I Feeder from Koida PSS to Sanikpur.	226
30.5	11kV line augmentation of OMC Feeder from Sashyakela to Kurmitra Mines.	230
30.6	11kV line augmentation of BPUT feeder From Chhend PSS to RDA market.	234
30.7	11kV line augmentation of Lahunipara feeder from Rajamunda PSS to Kalaiposh	238
30.8	11kV line augmentation of Rajgangpur Town-2 feeder from surudihi to line no-2.	242
30.9	11kV line augmentation of Rajgangpur Town-2 feeder from liploi bridge to kisanpada.	247
30.10	11kV line augmentation of Rajgangpur Town-1 feeder from IT colony to Baba Talab.	252
30.11	11kV line augmentation of Lamtibahal feeder from Brajrajnagar PSS to Infinite Hyper mart	256
30.12	11kV line augmentation of Brajrajnagar Feeder from Brajrajnagar PSS to Railway Hospital Brajrajnagar.	261
30.13	11kV line augmentation of Dhanupali feeder from Putibandh PSS to Dhanupali chowk.	266
30.14	11kV line augmentation Brookshill feeder from Putibandh PSS to Dhankuda	275
30.15	11kV line augmentation of Sunapali feeder from Putibandh PSS to Sunapali Jhanda Chowk.	280
30.16	11kV line augmentation of 11 KV LIC feeder from Shakti Pitha to Radhamadhaba DSS	285
30.17	11kV line augmentation of OMP feeder Sarasmal PSS to Shiv Mandir at Panchpoda road.	290
30.18	11kV line augmentation of Jharsuguda-I feeder from Sarasmal PSS to Hotel Konark	295
30.19	11kV line augmentation Badbazar Feeder from Badbazar PSS to Dhubapada Chowk.	300
30.20	11kV line augmentation of Bijepur feeder from Bandhapari PSS to 5T School Bengaon	305
30.21	11kV line augmentation of Mednipur feeder from Kusadungri PSS to Deypur-1 Near Primary DTR	310
30.22	11kV line augmentation of Balipada feeder from Narla PSS to Godabandh Uccha Vidyalaya.	315
30.23	11kV line augmentation of Gobra feeder From Bandhupala PSS to Badli-1 DTR	320
30.24	11kV line augmentation of Chikli feeder from Godramal PSS to Bahirpada Village-25kVA DTR	325
30.25	11kV line augmentation of Mangalpur feeder from Mukhiguda PSS to ICRM church.	330

<b>Annexure No.</b>	<b>Particulars</b>	<b>Page No.</b>
30.26	11kV line augmentation of Dhanpur feeder from Badkatru PSS to Dhanpur OLIC-2 25kVA DTR	335
30.27	11kV line augmentation of Gopalpur feeder from TH Rampur PSS to Kundabahal	340
30.28	11kV line augmentation of Kendumunda feeder from Sinapali PSS to Tendpadar.	346
30.29	11kV line augmentation of Singjhor feeder from Sinapali PSS to Singhijhor	351
30.30	11kV line augmentation of Bhaleswar feeder from Bisora PSS to Bhakarmal OLIC	357
30.31	11kV line augmentation of Barhaguda feeder from Pradhanpali PSS to NH Crossing	362
30.32	11kV line augmentation of Debrigarh feeder from Baragarh Bus Stand to Attabira	366
30.33	11kV line augmentation of Sargul feeder from Jharband PSS to Sargul DTR (25KVA)	370
30.34	11kV line augmentation of Lebdi feeder from Gaisilet PSS to near Dangabahal	374
30.35	11kV line augmentation of 11kV Palsada feeder from Near Rajendrapur DTR (25KVA) to Near Balangir DTR (63KVA).	379
30.36	11kV line augmentation of Jagdalpur feeder from Godamal Road to Near Padampur Highway Road	384
30.37	11kV line augmentation of Hardatal Feeder from Jhankarpali to Dudukasira Village	389
30.38	11kV line augmentation of Kansaripada Feeder to from Sudpada PSS to Bypass Road.	393
30.39	11kV line augmentation of Sargada Feeder from Sargad Village to Barkani Village	397
30.40	11kV line augmentation of Arjunpur Feeder From PSS to Kandhanbahal	402
30.41	11kV line augmentation of Salepali Feeder from Bhatabhali PSS.	406
30.42	11kV line augmentation Sargul Feeder from Cherupali PSS.	411
30.43	11kV line augmentation of Kantabanji town 2 feeder from Kantabanji PSS to nearby Kantabanji Eidgaah	416
30.44	11kV line augmentation of Bhatipada feeder from Titlagarh PSS to nearby railway track	421
30.45	11kV line augmentation Patnagarh town 2 feeder from Patnagarh PSS to nearby Tikapali govt school	426
31	Installation of 33 kV & 11 kV FPI	432
32	Installation of 33 kV & 11 kV AB Switches, Isolator & RMU	434
33	33 kV & 11 kV Polymer Insulator / LA	440
34	33 kV & 11 kV Auto Recloser / Sectionalizer	445
35	Mobile DT	447
36	Model Village – Installation of LT Distribution Box & Service Cable	449
37	LI Point Regularisation - Installation of Cables, Distribution Box, Installation of Smart Meters, etc. at LI connections (3ph)	455
<b>38</b>	<b>Construction of 33 kV New Line</b>	

<b>Annexure No.</b>	<b>Particulars</b>	<b>Page No.</b>
38.1	Construction of new 33kV line from Agalpur GSS to Gaisilet PSS	460
38.2	Construction of new 33kV line from Sarasmal GSS to near Balitikra PSS	465
38.3	Construction of new 33kV line from Patrapali to Patrapali PSS	470
38.4	Construction of new 33kV line from Sarandapali PSS to Sarandapali Chowk	474
38.5	Construction of new 33kV line from Punjipathar PSS to Arda PSS.	478
38.6	Construction of new 33kV line from Thakpada tapping to Thakpada PSS with LILO arrangement.	483
38.7	Construction of new 33kV line from Birmaharajpur to Hikudi/Raxa Chowk PSS	487
38.8	Construction of new 33kV line from Power House PSS to Indutrial Estate PSS	491
38.9	Construction of new 33kV line from proposed Sarasmal GSS to Pandkital PSS	496
38.10	Construction of new 33kV line from proposed Sarasmal GSS to Bisalpali PSS	501
38.11	Construction of new 33kV line from proposed M Rampur GSS to Balipada Tapping	505
38.12	Construction of new 33kV line from proposed M Rampur GSS to Juradubra PSS	509
38.13	Construction of new 33kV line from Khariar GSS to Badi tapping	514
38.14	Construction of new 33kV LILO line at Utkela PSS	518
38.15	Construction of new 33kV LILO line at Mahichala PSS	522
38.16	Construction of 33kV UG line for Kuarmunda Industrial feeder.	526
38.17	33kV LILO arrangement from Gobira(ODSSP-IV) PSS to Gobira Padha Ghar	532
38.18	33kV New link line between 33kV Pilot project feeder and 33kV Lathikata feeder	537
38.19	33kV New link line to Panposh PSS from District agricultural office	544
38.20	33kV New link line 33kV IDC Industrial feeder and 33kV Chhend Vedvyas feeder	549
38.21	33kV New link line 33kV IDC Industrial feeder and 33kV Kalunga feeder	555
38.22	33kV New Link Line from Lindra PSS to Jareikela Megalift	562
38.23	33kV New link between 33kV IDC (Balughat) feeder and Balanda feeder near Dandiapali PSS through JP Hospital T-off O/G line	567
38.24	33kV New Line from Hirakud GSS to Badbazar PSS	573
38.25	33kV New feeder from Chhend GSS to Civil Township PSS	579
38.26	33kV New feeder from Chhend GSS to Power House PSS	584
38.27	33kV New link from 33/11kV Goshala PSS and IIM Sambalpur	589
38.28	33kV New Line from Kolabira PSS to Patrapali 4 Pole	595
<b>39</b>	<b>Construction of 11 kV New Line</b>	
39.1	11kV New link line between Old Udit Nagar feeder and RGH feeder.	600
39.2	11kV New link line between Stadium feeder and Balabhadra market feeder.	606
39.3	11kV New link line between Nayabazar feeder and Timber feeder.	611
39.4	11kV New feeder from Bondamunda PSS to bifurcate Bisra Road feeder.	617
39.5	11kV New link line between GB Pali feeder and MS Pali feeder	622
39.6	11kV New link line within OSAP feeder to improve voltage	627
39.7	11kV New Link line between OSAP feeder and Nayabazar feeder.	632
39.8	11kV New Link line for load shifting from Lahunipara & Roxy Feeder to Phatangar Feeder.	638

<b>Annexure No.</b>	<b>Particulars</b>	<b>Page No.</b>
39.9	11kV New Link line Between Industry-I & Industry-II Feeder	643
39.10	11kV New Link line Between Boneikela & Tynser Feeder	647
39.11	11kV New Link Line between 11KV College (Panposh) feeder and Panposhbasti feeder.	651
39.12	11KV New feeder from Panposh PSS to Tribal Museum Lane for N-1 of Birsa Munda feeder.	657
39.13	11kV New feeder from Civil Township 33/11KV PSS to bifurcate College Feeder.	663
39.14	11KV New line between 11KV Biramitrapur Town-01 & 11 KV Biramitrapur Town-02 Rural Feeder.	669
39.15	11KV New Link Line Between Lukumbeda & Sorda Feeder	675
39.16	11KV New Link line from 11KV College Feeder to 11 KV Hospital Feeder.	680
39.17	11kV New Feeder from 33/11KV Padiabahal PSS to bifurcate 11kV Padiabahal Feeder.	685
39.18	11 kV New link line for load shifting of 11 KV Jarabaga feeder and Rengalbeda feeder.	691
39.19	11kV New link line between Jarabhaga feeder and Kesaibahal feeder.	699
39.20	11kV New feeder from Purna PSS to bifurcate Kalimandir feeder.	707
39.21	11kV New Link line for load shifting of Samarkhai feeder to Basaloi & Dangasingha feeder	712
39.22	11kV New link line for bifurcation of Risda feeder	717
39.23	11kV new link between Doordarshan feeder & Town-3 feeder	722
39.24	11kV New link line between Behera Feeder and Dharmagarh Town feeder	727
39.25	11kV New link line for bifurcation of Dharmagarh Town feeder	731
39.26	11kV New link line between AshaKiran feeder and Bandutikra feeder.	736
39.27	11kV New link line between Hatpada feeder and Nadikhandi feeder.	740
39.28	11kV New feeder from Khedapali PSS to bifurcate Bardol Feeder.	745
39.29	11kV link line within Lebidi feeder to improve voltage	749
39.30	New 11kV feeder from Punjipathar PSS to bifurcate Kuchipali feeder.	754
39.31	11kV New Link line for load shifting Saragada feeder to Jharmunda & Kusang feeder.	759
39.32	11kV New Feeder from Deulpadar PSS to bifurcate Jogisurda (Menda) feeder.	764
39.33	11kV New Link line between Chikalbahali feeder and Sibtala feeder.	768
39.34	11kV New Feeder from Arjunpur PSS to bifurcate Mahalai feeder.	773
39.35	11kV New Link line between Rengali feeder & Agalpur feeder.	777
39.36	11kV New feeder from Cherupali PSS to bifurcate Sargul Feeder	782
39.37	11kV New Link Line between Sargul Feeder and Cherupali Feeder.	787
39.38	11kV New Link Line between Sulia Feeder and 11kV Chadheipunk feeder.	792
<b>40</b>	<b>Construction of New PSS</b>	
40.1	New PSS at New court, Rourkela city RED (2x5 MVA, 33 kV O/D, 11 kV I/D)	797
40.2	New PSS at Daincha, Sambalpur SEED (2x 3.15 MVA, 33 kV O/D, 11 kV I/D)	803
41	Addition / Augmentation of PTR	815
42	Addition / Augmentation of DTR	831



Annexure No.	Particulars	Page No.
43	Provision of LT Protection (ACB / MCCB) for DTR	834
44	Addition of New LT ABC Network	837
45	Build & Strengthen DC-DR Infrastructure & End-User IT Hardware	839
46	Augmentation of IT Applications & Software	842
47	Enhancement of Cybersecurity Solutions	845
48	Construction / renovation of Office Buildings	848
49	Establishment of Technical and Safety Training Centre and mobile training facility	881
50	Store Infrastructure	884
51	Ready to Use assets for Offices	886
52	Cost Analysis of 33 KV UG using 3C, 400 sqmm XLPE cable (100 mtr , 2 Run, HDD) with DP for Cable Termination using 13 Mtr RSJ (GI)	889
53	Cost Analysis of 11 KV DP Cut Point with 13 Mtr RSJ (GI) Pole for Cradle Guard	890
54	Cost Analysis of 33 KV UG using 3C, 400 sqmm XLPE cable with DP using 13 Mtr RSJ (GI)	891
55	Cost Analysis of 11 KV UG HDD with 3C, 300 sqmm XLPE Cable using DP with 11 Mtr RSJ (GI) Pole	892
56	Cost Analysis of 33 KV Line Replacement from Bare to Insulated with DP using 232sqmm AAAC (Insulated) using 13mtr RS Joist pole	893
57	Cost Analysis of 11 KV Line Replacement from Bare to Insulated with DP using 100 sqmm AAAC (Insulated) using 11 mtr RS Joist pole	894
58	Cost Analysis of 33 KV Pin Point using 13 Mtr RSJ (GI) Pole	895
59	Cost Analysis of 33 KV Pin Point using 11 Mtr RSJ (GI) Pole	896
60	Cost Analysis of HT Stay Set (33 KV)	897
61	Cost Analysis of 11 KV Single Pole Pin Point with 11 Mtr RSJ (GI) Pole	898
62	Cost Analysis of 11 KV Single Pole Pin Point with 9 Mtr PSC Pole	899
63	Cost Analysis of HT Stay Set (11 KV)	900
64	Cost Analysis of DSS Earthing	902
65	Cost Analysis of PSS Earthing	903
66	Cost Analysis of Energy Meter for 11 KV OG Feeder (CRP)	904
67	Cost Analysis of Energy Meter for 33 KV IC Feeder (CRP)	905
68	Cost Analysis of Energy Meter for PTR (CRP)	906
69	Cost Analysis of Energy Meter for DTR > 100 KVA	907
70	Cost Analysis of Energy Meter for DTR < 100 KVA	908
71	Cost Analysis of Installing 33 KV MU (O/D)	909
72	Cost Analysis of Energy Meter for HT CONS.	910
73	Cost Analysis of Conversion of Bare to AB Cable , 95 sqmm using 9 Mtr PSC Pole	911
74	Cost Analysis of Conversion of Bare to AB Cable , 120 sqmm using 9 Mtr PSC Pole	912
75	Cost Analysis of 33 KV Bay with VCB (O/D), CT, PT, CRP (I/D) for Feeder protection	913



Annexure No.	Particulars	Page No.
76	Cost Analysis of 33 KV VCB (O/D), CT, CRP (I/D) replacement for Feeder protection	914
77	Cost Analysis of 33 KV Bay with VCB (O/D), CT, PT, CRP (I/D) for Transformer protection	915
78	Cost Analysis of 33 KV VCB (O/D), CT, CRP (I/D) replacement for Transformer protection	916
79	Cost Analysis of 11 KV Bay with VCB (O/D), CT, PT, CRP (I/D) for feeder protection	918
80	Cost Analysis of Replacement of 11 KV VCB (O/D), CT, CRP (I/D) for feeder protection	920
81	Cost Analysis of 11 KV Bay with VCB (O/D), CT, PT, CRP (I/D) for Transformer protection	921
82	Cost Analysis of replacement 11 KV Bay with VCB (O/D), CT, CRP (I/D) for Transformer protection	922
83	Cost Analysis of 33 KV LA	923
84	Cost Analysis of 11 KV LA	924
85	Cost Analysis of 100 KVA, 33/0.4 KV Sub Station	925
86	Cost Analysis for Installation of Battery 48 V (Replacement)	926
87	Cost Analysis for Battery Charger 48 V (Replacement)	927
88	Cost Analysis for Installation of ACDB PANEL TYPE A (Replacement)	928
89	Cost Analysis for Installation of DCDB PANEL 48/24 V (replacement)	929
90	Cost analysis of Refurbishment of PSS	930
91	Cost Analysis of Automation inside PSS	931
92	Cost Analysis of Augmentation of 11KV lines along with associated switching items and other accessories	932
93	Cost Analysis of Augmentation of 33KV lines along with associated switching items and other accessories	933
94	Cost Analysis of Installing 33 KV FPI with DTU	934
95	Cost Analysis of Installing 11 KV FPI with DTU	935
96	Cost Analysis of Installing 33 KV DP WITH ISOLATOR (800 A) without ES	936
97	Cost Analysis of Replacement of ISOLATOR (800 A) without ES	937
98	Cost Analysis of Installing 11 KV ABS	938
99	Cost Analysis of 33KV 4 Way RMU	939
100	Cost Analysis of 33KV 3 Way RMU	940
101	Cost Analysis of 11KV 4 Way RMU	941
102	Cost Analysis of 11KV 3 Way RMU	942
103	Cost Analysis of 33KV Pin insulator	943
104	Cost Analysis of 33KV Disc Insulator	944
105	Cost Analysis of 11 KV Pin Insulator	945
106	Cost Analysis of 11 KV Disc Insulator	946
107	Cost Analysis of Installing 33 KV Auto Reclosure/Sectionaliser	947
108	Cost Analysis of Installing 11 KV Auto Reclosure/Sectionaliser	948

<b>Annexure No.</b>	<b>Particulars</b>	<b>Page No.</b>
109	Cost Analysis of Installing Mobile DTR (500 KVA)	949
110	Cost Analysis of LI Point Regularisation - Installation of Cables, Distribution Box, etc. for LI connections	950
111	Cost Analysis of 33KV New lines along with associated switching items and other accessories	951
112	Cost Analysis of 11KV New lines along with associated switching items and other accessories	952
113	Cost Analysis of New PSS with 2 x 5 MVA TRF	953
114	Cost Analysis of Additional 8 MVA, 33/11 KV PTR	954
115	Cost Analysis of Augmentation of 33/11 KV PTR from 5 MVA to 8 MVA	955
116	Cost Analysis of Augmentation of 33/11 KV PTR from 8 MVA to 12.5 MVA	956
117	Cost Analysis of Chain Augmentation of 8 MVA PTR	957
118	Cost Analysis of Chain Augmentation of 5 MVA PTR	958
119	Cost Analysis of Additional 100 KVA DSS	959
120	Cost Analysis of Additional 250 KVA DSS	962
121	Cost Analysis of Additional 500 KVA DSS	965
122	Cost Analysis of 250 KVA, 11/0.4 KV DSS (Aug)	968
123	Cost Analysis of 500 KVA, 11/0.4 KV DSS (Aug)	970
124	Cost Analysis of 1 MVA, 11/0.4 KV DSS (Aug)	972
125	Cost Analysis of LT MCCB for 100 KVA	974
126	Cost Analysis of LT ACB for 250 KVA, 11/0.4 KV	975
127	Cost Analysis of LT ACB for 500 KVA, 11/0.4 KV	976
128	Cost Analysis of LT ACB for 1000 KVA, 11/0.4 KV	977
129	Cost Analysis of LT MCCB for 25 KVA	978
130	Cost Analysis of LT MCCB for 63 KVA	979
131	Cost Analysis of New LT Line with 95 sqmm AB Cable using 9 Mtr PSC Pole	980
132	Cost Analysis of New LT Line with 120 sqmm AB Cable using 9 Mtr PSC Pole	981
133	Location details for Cradle Guard	982
134	Location details for 11kV Insulated conductor	984
135	Location details for 33kV insulated conductor	985
136	Location details for 11kV Intermediate pole using 11m RS joist pole	986
137	Location details for 11kV Intermediate pole using 9m PSC pole	987
138	Location details for 33kV Intermediate pole using 13 m & 11m RS joist pole	989
139	Location details for DSS earthing	992
140	Location details for LT bare to AB cable 95 sqmm	1011
141	Location details for LT bare to AB cable 120 sq.mm	1012
142	Location details for installation & replacement 33kV 11kV VCB group breaker	1014
143	Location details for 11kV FPI	1016
144	Location details for 33kV FPI	1018
145	Location details for 11kV AB Switch	1022
146	Location details for 11kV RMU - 3 Way	1027

<b>Annexure No.</b>	<b>Particulars</b>	<b>Page No.</b>
147	Location details for 11kV RMU - 4 Way	1028
148	Location details for 33kV RMU - 3 way	1029
149	Location details for 33kV RMU -4 Way	1030
150	Location details for 33kV isolator with DP & 33kV Isolator without DP	1031
151	Location details for 11kV Polymer pin insulator	1032
152	Location details for 11kV Polymer disc insulator	1033
153	Location details for 33kV polymer pin insulator	1034
154	Location details for 33kV polymer disc insulator	1039
155	Location details for 11kV LA	1040
156	Location details for 11kV AR/SR	1042
157	Location details for LT Protection ACB	1043
158	Location details for LT Protection MCCB	1046
159	Location details for 33kV LA	1052
160	Location details for 33kV AR/SR	1054
161	Location details for addition of New LT ABC	1055
162	Cost Analysis of 33 KV O/D Bay, VCB ,CT, PT & CRP(I/D) for Feeder Protection	1063
163	Cost Analysis of 11 KV O/D Bay, VCB, CT, PT & CRP(I/D) for Feeder Protection	1064
164	Cost Analysis of 11 KV I/D Switchgear Panel	1065
165	Cost Analysis of PC+6 Tower for River Crossing	1066
166	Cost Analysis of 11 KV UG	1068
167	Cost Analysis of 33 KV UG	1070
168	Cost Analysis of 33 KV New Line (Covered)	1071
169	Cost Analysis of 33 KV 4-Pole	1072
170	Cost Analysis of 11 KV New Line (Covered)	1073
171	Cost Analysis of 11 KV DP with AB Switch	1074
172	Cost Analysis of M+6 Tower	1075
173	Location details for DTR Augmentation	1076
174	Location details for DTR Addition	1077
175	11 kV Feeder mapping details	1079
176	PSS Wise feeder Mapping details	1259
177	33 kV feeder mapping details	1322
178	Cost Analysis of 11 KV Augmentation with 148 sqmm AAAC	1323