- **File cabinets/Cupboards** are basic requirements to keep office space organized and tip top. It helps store important papers, documents, photographs, magazines, and training materials in one single place for easy and immediate access besides offering secure storage, it offers instant access to files of thousands of customers and employees.

Canteen facilities are the necessity of satisfying employees with a better range of foods and healthy options.

"Workplace canteens need to provide with options to cater for lunch with meals or light breakfast items and fruit or snacks for mid-afternoon along with tea/ cold drinks/ coffee in order to promote healthy eating & refreshments for employees and stakeholders.

Scope of Work

All Offices in Corporate and 5 Circles viz. Sambalpur, Rourkela, Bargarh, Bolangir & Kalahandi Circle

Sl. No	Item Description	Corporate	Sambalpur	Rourkela	Bargarh	Bolangir	Kalahandi	Total
1	Desert Cooler	0	10	10	15	10	10	55
2	Water Cooler 120 Ltrs with inbuilt RO	5	1	1	1	1	1	10
3	Water Cooler 40/80 Ltrs	5	5	5	5	5	5	30
4	RO machine	5	5	5	5	5	5	30
5	Sofa- 2 seater	6						6
6	Sofa- 3 seater	6						6
7	Centre Table	4						4
8	Split AC	10	10	10	10	10	10	60
9	Refrigerator	5	3	3	3	3	3	20
10	Inverter	0	2	2	2	2	2	10
11	200 AH Tubular Battery	0	5	5	5	5	5	25
12	UPS 6 KVA	2	1	1	1	1	1	7
13	100AH , 12V BATTERY SET (16 Nos) for 6 KVA UPS	2	1	1	1	1	1	7
14	55'"TV	2	1	1	3	1	1	9
15	65" TV	3			1			4
16	Almirah	2	10	10	10	10	10	52
17	Chair		20	20	20	20	20	100
18	Pump set	0	2	2	2	2	2	10
19	Microwave	5						5
20	Washing Machine	1						1
21	Vehicles	9						9

Proposed Cost with Estimate Break

Proposed cost for ready use office assets is 2.58 Crore. Estimate break-up with source of estimate (i.e. PO No.) is given below.

Sl. No	Item Description	Total	Base Cost (in Rs.)	Escl (%)	Unit cost (in Rs.)	Total Cost	Ref PO no.
1	Desert Cooler	55	11500.00	6.00%	12190.00	670450.00	4200003181
2	Water Cooler 120 Ltrs with inbuilt RO	10	118590.00	6.00%	125705.40	1257054.00	4200003184
3	Water Cooler 40/80 Ltrs	30	28900.00	6.00%	30634.00	919020.00	4200002703
4	RO machine	30	14160.00	6.00%	15009.60	450288.00	4200003077
5	Sofa- 2 seater	6	29,500.00	6.00%	31270.00	187620.00	4200003077
6	Sofa- 3 seater	6	35,400.00	6.00%	37524.00	225144.00	4200003033
7	Centre Table	4	5000.00	6.00%	5300.00	21200.00	4200003033
8	Split AC	60	40960.00	6.00%	43417.60	2605056.00	4200003009
9	Refrigerator	20	24,190.00	6.00%	25641.40	512828.00	4200003099
10	Inverter	10	7,000.00	6.00%	7420.00	74200.00	4200003080
11	200 AH Tubular Battery	25	18100.00	6.00%	19186.00	479650.00	4200003080
12	UPS 6 KVA	7	106009.00	6.00%	112369.54	786586.78	4200002947
13	100AH , 12V BATTERY SET (16 Nos) for 6 KVA UPS	7	159792.00	6.00%	169379.52	1185656.64	4200002947
14	55'"TV	9	55570.00	6.00%	58904.20	530137.80	4200000859
15	65" TV	4	74,500.00	6.00%	78970.00	315880.00	4200002974
16	Almirah	52	12160.00	6.00%	12889.60	670259.20	4200002945
17	Chair	100	2478.00	6.00%	2626.68	262668.00	4200003133
18	Pump set	10	19990	6.00%	21189.40	211894.00	4200003040
19	Microwave	5	7500.00	6.00%	7950.00	39750.00	4200002836
20	Washing Machine	1	20900.00	6.00%	22154.00	22154.00	4200002141
21	Vehicles	9	1600000.00	0.00%	1600000.00	14400000.00	9500000077
	Total (FY 27)					**25827496.42**	
					In Rs CR	**2.58**	

Physical Target

Work will be completed by March ‘27

Cost Benefit Analysis

Not Applicable

Benefit to the System and Consumers

- Consumer delight
- Improvement in employee satisfaction
- Clean and safe working environment

Annexure 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)							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**199711.20**		
1	13 mtr RSJ (GI) Pole	Nos	4	49927.8	199711.20	CDB @ 48%	
C	**Cost of materials for line**	**C**			**1243298.18**		
1	GI Channel 100x50x6 mm	Kg	107	111.00	11884.99	CDB @ 48%	
2	GI Channel 75x40x5 mm	Kg	240	111.00	26629.34	CDB @ 48%	
3	GI Channel 50x50x6 mm	Kg	72	111.00	7992.00	CDB @ 48%	
4	Fish Plate	Kg	8	111.00	888.00	CDB @ 48%	
5	GI Flat 50x6 mm	Kg	48	111.00	5343.98	CDB @ 48%	
6	GI Flat 25x6 mm	Kg	38	111.00	4162.50	CDB @ 48%	
7	33 KV Pin Insulator, Polymer	No	6	710.40	4262.40	CDB @ 48%	
8	33 KV Polymer Disc Insulator B&S (120 KN)	Nos.	6	2131.20	12787.20	CDB @ 48%	
9	33 KV H/W fitting for Disc (120KN)	Nos.	6	2486.40	14918.40	CDB @ 48%	
10	Lightning Arrester(30KV,10KA)	Nos.	6	15318.00	91908.00	CDB @ 48%	
11	PG Clamp for 232 sqmm AAAC	Nos.	6	1702.00	10212.00	CDB @ 48%	
12	Cable Riser HDPE Pipe (200 mm)	Mtr	24	1650.00	39600.00	RC	6200006564
13	HT Stay set complete	No	4	1554.00	6216.00	CDB @ 48%	
14	HT Stay Insulator	No	4	74.00	296.00	CDB @ 48%	
15	HT Stay Clamp	Pair	4	185.00	740.00	CDB @ 48%	
16	7/8 SWG GI wire for stay	Kg	34	111.00	3774.00	CDB @ 48%	
17	GI Pipe Earthing (40 mm)	Nos.	2	1554.00	3108.00	CDB @ 48%	
18	GI Nuts Bolt & Washer	Kg	24	115.44	2770.56	CDB @ 48%	
19	GI Barbered wire for anticlimbing	Kg	8	118.40	947.20	CDB @ 48%	
20	Fabrication & Others	Kg	419	14.80	6200.84	CDB @ 48%	
21	Danger Plate	No	4	118.40	473.60	CDB @ 48%	
22	33 KV 3C 400 sqmm XLPE cable	Mtr	250.00	3165.25	791313.56	RC	6200006717
23	Out door jointing Kit for 33 KV 3C, 400 sqmm XLPE Cable	No	4.00	49217.40	196869.60	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**1443009.38**		
E	Landing Cost on Materials	**E**	18%		259741.69		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		43290.28		
G	**Sub Total**	**G=D+F**			**1486299.67**		
H	T&P @ 2% of F	H	2%		29725.99		
I	Contingency @ 3% of F	I	3%		44588.99		
J	Transportation @ 7.5% of F	J	7.5%		111472.47		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+GST	L	5%		12136.45		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	M	10%		151110.46		
N	Sub Total	**N**=E+G+H+I+J+ K+L+M			**2095075.72**		
O	**Cost of Civil Works**	**O**			**732340.65**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	M3	1.8	7845.64	14122.16	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	M3	0.45	7845.64	3530.54	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	Nos.	0.80	7845.64	6276.51	RC	6200006564
4	HDD with 200 mm HDPE	Mtr	200	3504.60	700920.00	RC	6200006564
5	Cable Route Marker along the cable route at an interval of 30mtrs with civil works	Nos.	4	1221.50	4886.00	RC	6200006564
6	Dismantalling of line	Km	0.24	10856.00	2605.44	RC	6200006564
P	**Sub Total**	**P=N+O**			**2827416.38**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**2827416.38**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		28274.16		
T	**Grand Total**	**T=R+S**			**2855690.54**		
				or say	**2855691.00**		
				In Cr.	**0.28557**		

Annexure 53: Cost Analysis of 11 KV DP Cut Point with 13 Mtr RSJ (GI) Pole for Cradle Guard							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**199711.20**		
1	13 Mtr RSJ (GI)	Nos	4	49927.80	199711.20	CDB @ 48%	
C	**Cost of materials for line**	**C**			**119295.84**		
1	GI Channel 100x50x6 mm	Kg	96	111.00	10611.60	CDB @ 48%	
2	GI Channel 75x40x5 mm	Kg	107	111.00	11888.10	CDB @ 48%	
3	GI Channel 50x50x6 mm	Kg	72	111.00	7992.00	CDB @ 48%	
4	Fish Plate	Kg	8	111.00	888.00	CDB @ 48%	
5	GI Flat 50x6 mm	Kg	34	111.00	3772.22	CDB @ 48%	
6	GI Flat 25x6 mm	Kg	30	111.00	3330.00	CDB @ 48%	
7	11KV Pin Insulator, Polymer	No	6	296.00	1776.00	CDB @ 48%	
8	11 KV Polymer Disc Insulator B&S (70 KN)	Nos.	12	1702.00	20424.00	CDB @ 48%	
9	11 KVH/W fitting for Disc (70KN)	Nos.	12	518.00	6216.00	CDB @ 48%	
10	PG Clamp for 100sqmm AAAC	Nos.	12	858.40	10300.80	CDB @ 48%	
11	HT Stay set complete	No	4	1554.00	6216.00	CDB @ 48%	
12	HT Stay Insulator	No	4	74.00	296.00	CDB @ 48%	
13	HT Stay Clamp	Pair	4	185.00	740.00	CDB @ 48%	
14	7/10 SWG GI wire for stay	Kg	23	111.00	2553.00	CDB @ 48%	
15	Pipe Earthing (GI)	Nos.	2	1554.00	3108.00	CDB @ 48%	
16	GI Nuts Bolt & Washer	Kg	24	115.44	2770.56	CDB @ 48%	
17	GI Barbered wire for anticlimbing	Kg	4	118.40	473.60	CDB @ 48%	
18	Fabrication & others	Kg	275	14.80	4065.56	CDB @ 48%	
19	Danger Plate	No	4	118.40	473.60	CDB @ 48%	
20	100 sq mm AAAC	Km	0.19	81400.00	15384.60	CDB @ 48%	
21	Eye Hook	Nos	4	88.80	355.20	CDB @ 48%	
22	No.8 GI wire (Dia-4.6mm)	Kg	22	111.00	2442.00	CDB @ 48%	
23	No.6 GI wire (Dia-4.8mm)	Kg	29	111.00	3219.00	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**319007.04**		
E	GST on Materials @ 18 %	**E**	18%		57421.27		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		9570.21		
G	**Sub Total**	**G=D+F**			**328577.26**		
H	T&P @ 2% of F	H	2%		6571.55		
I	Contingency @ 3% of F	I	3%		9857.32		
J	Transportation @ 7.5% of F	J	7.5%		24643.29		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	L	5%		12136.45		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	M	10%		14499.22		
N	Sub Total	**N**=E+G+H+I+J+K+L+M			**453706.35**		
O	**Cost of Civil Works**	**O**			**34347.97**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	2	7845.64	14122.16	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	0.45	7845.64	3530.54	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	0.80	7845.64	6276.51	RC	6200006564
4	Earthing pit for pipe earthing	No	2	4465.98	8931.96	RC	6200006564
5	Dismantalling of Conductor	Km	0.18	8260.00	1486.80	RC	6200006564
P	**Sub Total**	**P=N+O**			**488054.32**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**488054.32**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		4880.54		
T	**Grand Total**	**T=R+S**			**492934.86**		
				or say	**492935.00**		
				In Cr.	**0.04929**		

Annexure 54: Cost Analysis of 33 KV UG using 3C, 400 sqmm XLPE cable with DP using 13 Mtr RSJ (GI)							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**199711.20**		
1	13 mtr RSJ (GI) Pole	Nos	4	49927.80	199711.20	CDB @ 48%	
C	**Cost of materials for line**	**C**			**1243298.18**		
1	GI Channel 100x50x6 mm	Kg	107	111.00	11884.99	CDB @ 48%	
2	GI Channel 75x40x5 mm	Kg	240	111.00	26629.34	CDB @ 48%	
3	GI Channel 50x50x6 mm	Kg	72	111.00	7992.00	CDB @ 48%	
4	Fish Plate	Kg	8	111.00	888.00	CDB @ 48%	
5	GI Flat 50x6 mm	Kg	48	111.00	5343.98	CDB @ 48%	
6	GI Flat 25x6 mm	Kg	38	111.00	4162.50	CDB @ 48%	
7	33 KV Pin Insulator, Polymer	No	6	710.40	4262.40	CDB @ 48%	
8	33 KV Polymer Disc Insulator B&S (120 KN)	Nos.	6	2131.20	12787.20	CDB @ 48%	
9	33 KV H/W fitting for Disc (120KN)	Nos.	6	2486.40	14918.40	CDB @ 48%	
10	Lightning Arrester(30KV,10KA)	Nos.	6	15318.00	91908.00	CDB @ 48%	
11	PG Clamp for 232 sqmm AAAC	Nos.	6	1702.00	10212.00	CDB @ 48%	
12	Cable Riser HDPE Pipe (200 mm)	Mtr	24	1650.00	39600.00	RC	6200006564
13	HT Stay set complete	No	4	1554.00	6216.00	CDB @ 48%	
14	HT Stay Insulator	No	4	74.00	296.00	CDB @ 48%	
15	HT Stay Clamp	Pair	4	185.00	740.00	CDB @ 48%	
16	7/8 SWG GI wire for stay	Kg	34	111.00	3774.00	CDB @ 48%	
17	GI Pipe Earthing (40 mm)	Nos.	2	1554.00	3108.00	CDB @ 48%	
18	GI Nuts Bolt & Washer	Kg	24	115.44	2770.56	CDB @ 48%	
19	GI Barbered wire for anticlimbing	Kg	8	118.40	947.20	CDB @ 48%	
20	Fabrication & Others	Kg	419	14.80	6200.84	CDB @ 48%	
21	Danger Plate	No	4	118.40	473.60	CDB @ 48%	
22	33 KV 3C 400 sqmm XLPE cable (Steel Wound Wire)	Mtr	250.00	3165.25	791313.56	RC	6200006717
23	Out door jointing Kit for 33 KV 3C, 400 sqmm XLPE Cable	No	4.00	49217.40	196869.60	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**1443009.38**		
E	Landing Cost on Materials	**E**	18%		259741.69		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		43290.28		
G	**Sub Total**	**G=D+F**			**1486299.67**		
H	T&P @ 2% of F	H	2%		29725.99		
I	Contingency @ 3% of F	I	3%		44588.99		
J	Transportation @ 7.5% of F	J	7.5%		111472.47		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+GST	L	5%		12136.45		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	M	10%		151110.46		
N	Sub Total	**N**=E+G+H+I+J+K+L+M			**2095075.72**		
O	**Cost of Civil Works**	**O**			**732340.65**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	M3	1.8	7845.64	14122.16	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	M3	0.4500	7845.64	3530.54	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	Nos.	0.80	7845.64	6276.51	RC	6200006564
4	HDD with 200 mm HDPE	Mtr	200	3504.60	700920.00	RC	6200006564
5	Cable Route Marker along the cable route at an interval of 30mtrs with civil works	Nos.	4	1221.50	4886.00	RC	6200006564
6	Dismantalling of line	Km	0.24	10856.00	2605.44	RC	6200006564
P	**Sub Total**	**P=N+O**			**2827416.38**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**2827416.38**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		28274.16		
T	**Grand Total**	**T=R+S**			**2855690.54**		
				or say	**2855691.00**		
				In Cr.	**0.28557**		

Annexure 55: Cost Analysis of 11 KV UG HDD with 3C, 300 sqmm XLPE Cable using DP with 11 Mtr RSJ (GI) Pole							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**168986.40**		
1	11 Mtr RSJ (GI)	Nos	4	42246.60	168986.40	CDB @ 48%	
C	**Cost of materials for line**	**C**			**695891.60**		
1	GI Channel 100x50x6 mm	Kg	96	111.00	10611.60	CDB @ 48%	
2	GI Channel 75x40x5 mm	Kg	143	111.00	15850.80	CDB @ 48%	
3	GI Channel 50x50x6 mm	Kg	72	111.00	7992.00	CDB @ 48%	
4	Fish Plate	Kg	8	111.00	888.00	CDB @ 48%	
5	GI Flat 50x6 mm	Kg	11	111.00	1257.41	CDB @ 48%	
6	GI Flat 25x6 mm	Kg	30	111.00	3330.00	CDB @ 48%	
7	11KV Pin Insulator, Polymer	No	6	296.00	1776.00	CDB @ 48%	
8	11 KV Polymer Disc Insulator B&S (70 KN)	Nos.	6	1702.00	10212.00	CDB @ 48%	
9	11 KVH/W fitting for Disc (70KN)	Nos.	6	518.00	3108.00	CDB @ 48%	
10	Lightning Arrester(12KV,10KA) Station Class	Nos.	6	5254.00	31524.00	CDB @ 48%	
11	Cable Riser HDPE Pipe (160 mm)	Nos.	24	1265.00	30360.00	RC	6200006564
12	PG Clamp for 100sqmm AAAC	Nos.	6	858.40	5150.40	CDB @ 48%	
13	HT Stay set complete	No	4	1554.00	6216.00	CDB @ 48%	
14	HT Stay Insulator	No	4	74.00	296.00	CDB @ 48%	
15	HT Stay Clamp	Pair	4	185.00	740.00	CDB @ 48%	
16	7/10 SWG GI wire for stay	Kg	23	111.00	2553.00	CDB @ 48%	
17	Pipe Earthing (GI)	Nos.	4	1554.00	6216.00	CDB @ 48%	
18	GI Nuts Bolt & Washer	Kg	24	115.44	2770.56	CDB @ 48%	
19	GI Barbered wire for anticlimbing	Kg	8	118.40	947.20	CDB @ 48%	
20	Fabrication & others	Kg	310.40	14.80	4593.92	CDB @ 48%	
21	Danger Plate	No	4	118.40	473.60	CDB @ 48%	
22	11 KV 3C 300 sqmm XLPE cable (Steel Wound Wire)	Mtr	250.00	1883.05	470762.71	RC	6200006717
23	Out door jointing Kit for 11 KV 3C, 300 sqmm XLPE Cable	No	4.00	19565.60	78262.40	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**864878.00**		
E	Landing Cost on Materials	**E**	18%		155678.04		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		25946.34		
G	**Sub Total**	**G=D+F**			**890824.34**		
H	T&P @ 2% of F	H	2%		17816.49		
I	Contingency @ 3% of F	I	3%		26724.73		
J	Transportation @ 7.5% of F	J	7.5%		66811.83		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	L	5%		10269.30		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	M	10%		84578.67		
N	Sub Total	**N**=E+G+H+I+J+ K+L+M			**1252703.39**		
O	**Cost of Civil Works**	**O**			**666817.61**		
1	Concreting ratio 1:1.5:3(M-20 Grade)	M3	1.8	7845.64	14122.16	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	M3	0.450	7845.64	3530.54	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	0.80	7845.64	6276.51	RC	6200006564
4	HDD with 160 mm HDPE	Mtr	200	3180.10	636020.00	RC	6200006564
5	Cable Route Marker along the cable route at an interval of 30mtrs with civil works	Nos.	4	1221.50	4886.00	RC	6200006564
6	Dismantalling of line	Km	0.24	8260.00	1982.40	RC	6200006564
P	**Sub Total**	**P=N+O**			**1919521.00**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1919521.00**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		19195.21		
T	**Grand Total**	**T=R+S**			**1938716.21**		
				or say	**1938716.00**		
				In Cr.	**0.19387**		

Annexure 56: Cost Analysis of 33 KV Line Replacement from Bare to Insulated with DP using 232sqmm AAAC (Insulated) using 13mtr RS Joist pole							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**	**A**			**0**		
B	**Cost of RS Joist Poles**	**B**			**798844.80**		
1	13 Mtr RS Joist Pole (GI)	Nos	16	49927.80	798844.80	CDB @ 48%	
C	**Cost of materials for line**	**C**			**1209644.68**		
1	232 sqmm AAA Insulated Conductor	Km	3.15	306060.00	964089.00	RC	6200004476
2	GI Channel 100x50x6mm	Kg	107.00	111.00	11877.00	CDB @ 48%	
3	GI Channel 75x40x6mm	Kg	160.00	111.00	17760.00	CDB @ 48%	
4	GI Angle 50x50x6mm	Kg	72.00	111.00	7992.00	CDB @ 48%	
5	Fish Plate 50x6mm	Kg	8.00	111.00	888.00	CDB @ 48%	
6	GI Flat 50x6mm	Kg	24.00	111.00	2664.00	CDB @ 48%	
7	GI Flat 25x6mm	Kg	38.00	111.00	4218.00	CDB @ 48%	
8	33 KV V- Cross Arm (GI)	No	12	2664.00	31968.00	CDB @ 48%	
9	Back Clamp for 'V' Cross Arm	No	12	222.00	2664.00	CDB @ 48%	
10	33 KV F Clamp	No	12	444.00	5328.00	CDB @ 48%	
11	33KV Disc Insulator (B & S), Polymer	No	12	2131.20	25574.40	CDB @ 48%	
12	33KV H/W Fitting (B & S type) for Disc Insulator	No	12	2486.40	29836.80	CDB @ 48%	
13	PG Clamp for 232Sqmm AAAC	No	12	1702.00	20424.00	CDB @ 48%	
14	33KV Pin Insulator, Polymer	No	42	710.40	29836.80	CDB @ 48%	
15	HT Stay set complete	No	10	1554.00	15540.00	CDB @ 48%	
16	HT Stay Insulator	No	10	74.00	740.00	CDB @ 48%	
17	HT Stay Clamp	Pair	10	185.00	1850.00	CDB @ 48%	
18	7/8 SWG GI wire for stay	Kg	108.00	111.00	11988.00	CDB @ 48%	
19	No.8 SWG GI wire for earthing	Kg	19	111.00	2109.00	CDB @ 48%	
20	Earthing of support (Coil Type)	No	12	245.68	2948.16	CDB @ 48%	
21	40mm nominal bore GI Pipe earthing device	No	2	1554.00	3108.00	CDB @ 48%	
22	GI Nuts Bolt & Washer	Kg	48	115.44	5541.12	CDB @ 48%	
23	GI Barbered wire for anticlimbing	Kg	32	118.40	3788.80	CDB @ 48%	
24	Danger Plate	No	16	118.40	1894.40	CDB @ 48%	
25	Fabrication & Galvanisation	Kg	339.00	14.80	5017.20	CDB @ 48%	
D	**SUBTOTAL(D)**	**D=A+B+C**			**2008489.48**		
E	Landing Cost on Materials	E	18%		361528.11		
F	Stock, Storage & Insurance @ 3% of D=E	F	3%		60254.68		
G	**Sub Total (F)**	**G= D+F**			**2068744.16**		
H	T&P @ 2% of F	H	2%		41374.88		
I	Contingency @ 3% of F	I	3%		62062.32		
J	Transportation @ 7.5% of F	J	7.5%		155155.81		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))	L	5%		48545.80		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))	L	10%		147020.21		
N	Sub Total (M)	**N=E+G+H+I+J +K+L**			**2884431.30**		
O	**Cost of Civil Works(Incl. tax)**	**O**			**127802.04**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	M3	7.20	7845.64	56488.63	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	M3	1.80	7845.64	14122.16	RC	6200006564
3	Dismantling of 232 sqmm AAAC	Km	3.00	10856.00	32568.00	RC	6200006564
4	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	2.00	7845.64	15691.29	RC	6200006564
5	Earthing pit for pipe earthing	No.	2	4465.98	8931.96	RC	6200006564
P	**Sub Total (O)**	**O=M+N**			**3012233.34**		
Q	**Other Overheads (including supervision charges) @ 6% of (O)=Q**	**Q**	**0%**		0.00		
R	**Sub Total (S)**	**S=O+P+Q+R**			**3012233.34**		
S	**Labour Cess @ 1% of S=T**	**T**	**1%**		30122.33		
T	**Grand Total (U)= S+T**	**U=S+T**			**3042355.67**		
				or say	**3042356.00**		
				In Cr	**0.304236**		

Annexure 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							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**591452.40**		
1	11mtr RSJ (GI) Pole	Nos.	14	42246.60	591452.40	CDB @ 48%	
C	**Cost of materials for line**	**C**			**584750.96**		
1	100 sqmm AAAC (Covered) for 11 KV line	Km.	3.15	133200.00	419580.00	CDB @ 48%	
2	GI Channel 100x50x6mm	Kg	107	111.00	11877.00	CDB @ 48%	
3	GI Channel 75x40x6mm	Kg	160	111.00	17760.00	CDB @ 48%	
4	GI Angle 50x50x6mm	Kg	72	111.00	7992.00	CDB @ 48%	
5	Fish Plate 50x6mm	Kg	8	111.00	888.00	CDB @ 48%	
6	GI Flat 50x6mm	Kg	48	111.00	5328.00	CDB @ 48%	
7	GI Flat 25x6mm	Kg	30	111.00	3330.00	CDB @ 48%	
8	11 KV V- Cross Arm (10.2 Kg each)	No.	10	1198.80	11988.00	CDB @ 48%	
9	11 KV F Clamp 2.9 Kg. each	No.	10	355.20	3552.00	CDB @ 48%	
10	11KV Disc Insulator (B & S), Polymer	No.	12	1702.00	20424.00	CDB @ 48%	
11	11KV H/W Fitting (B & S type) for Disc Insulator	No.	12	740.00	8880.00	CDB @ 48%	
12	PG Clamp for 100 sqmm AAAC	No.	12	858.40	10300.80	CDB @ 48%	
13	11KV Pin Insulator, Polymer	No.	36	296.00	10656.00	CDB @ 48%	
14	HT Stay set complete	No.	10	1554.00	15540.00	CDB @ 48%	
15	HT Stay Insulator	No.	10	74.00	740.00	CDB @ 48%	
16	HT Stay Clamp	Pair	10	185.00	1850.00	CDB @ 48%	
17	7/8 SWG GI wire for stay	Kg.	108	111.00	11988.00	CDB @ 48%	
18	No-8 GI wire (for earthing)	Kg.	13	111.00	1443.00	CDB @ 48%	
19	Earthing of support (Coil Type)	No.	10	245.68	2456.80	CDB @ 48%	
20	40mm nominal bore GI Pipe earthing device	No.	2	1554.00	3108.00	CDB @ 48%	
21	GI Nuts Bolt & Washer	Kg.	44	115.44	5079.36	CDB @ 48%	
22	GI Barbered wire for anticlimbing	Kg.	28	118.40	3315.20	CDB @ 48%	
23	Danger Plate	No.	14	118.40	1657.60	CDB @ 48%	
24	Fabrication & Galvanisation	Kg.	339.00	14.80	5017.20	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**1176203.36**		
E	Landing Cost on Materials	**E**	18%		211716.60		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		35286.10		
G	**Sub Total**	**G=D+F**			**1211489.46**		
H	T&P @ 2% of F	H	2%		24229.79		
I	Contingency @ 3% of F	I	3%		36344.68		
J	Transportation @ 7.5% of F	J	7.5%		90861.71		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		35942.56		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		71070.63		
N	Sub Total	**N**=E+G+H+I+J+K+L+M			**1681655.44**		
O	**Cost of Civil Works**	**O**			**298758.91**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	6	7845.64	49427.55	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	1.575	7845.64	12356.89	RC	6200006564
3	Dismantling of 34/55 sqmm AAAC	Km.	3	8260.00	24780.00	RC	6200006564
4	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	2.00	7845.64	15691.29	RC	6200006564
5	Earthing pit for pipe earthing	No	44	4465.98	196503.18	RC	6200006564
P	**Sub Total**	**P=N+O**			**1980414.35**		
Q	**Other Overheads (including supervision charges) @ 6% of P**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1980414.35**		
S	**Labour Cess @ 1% of R**	**S**	**1%**		19804.14		
T	**Grand Total**	**T=R+S**			**2000218.49**		
				or say	**2000218.00**		
				In Cr	**0.200022**		

Annxexure 58: Cost Analysis of 33 KV Pin Point using 13 Mtr RSJ (GI) Pole							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**49927.80**		
1	13 mtr RSJ (GI) Pole	**Nos.**	1	49927.80	49927.80	CDB @ 48%	
C	**Cost of materials for line**	**C**			**6960.29**		
1	33 KV V- Cross Arm (GI) (22 Kg each)	No	1	2664.00	2664.00	CDB @ 48%	
2	GI Back Clamp for V cross arm (33KV) (1.7 kg each)	No	1	222.00	222.00	CDB @ 48%	
3	33 KV F Clamp 2.9 Kg. each	No	1	444.00	444.00	CDB @ 48%	
4	GI Flat 50x6 mm	Kg	4.01	111.00	445.33	CDB @ 48%	
5	33 KV Pin Insulator, Polymer	No	3	710.40	2131.20	CDB @ 48%	
6	No 8 GI wire for earthing	Kg	2	111.00	222.00	CDB @ 48%	
7	Earthing of support (Coil Type)	No	1	245.68	245.68	CDB @ 48%	
8	GI Nuts Bolt & Washer	Kg	2	115.44	230.88	CDB @ 48%	
9	GI Barbered wire for anticlimbing	Kg	2	118.40	236.80	CDB @ 48%	
10	Danger Plate	No	1	118.40	118.40	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**56888.09**		
E	Landing Cost on Materials	**E**	18%		10239.86		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		1706.64		
G	**Sub Total**	**G=D+F**			**58594.73**		
H	T&P @ 2% of F	H	2%		1171.89		
I	Contingency @ 3% of F	I	3%		1757.84		
J	Transportation @ 7.5% of F	J	7.5%		4394.61		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+GST	L	5%		3034.11		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	M	10%		845.95		
N	Sub Total	**N**=E+G+H+I+J+K+L+M			**80039.00**		
O	**Cost of Civil Works(Incl. tax)**	**O**			**4413.17**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	M3	0.45	7845.64	3530.54	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	M3	0.11	7845.64	882.63	RC	6200006564
P	**Sub Total**	**P=N+O**			**84452.17**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**84452.17**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		844.52		
T	**Grand Total**	**T=R+S**			**85296.70**		
				or say	**85297.00**		
				In Cr	**0.008530**		

Annxexure 59: Cost Analysis of 33 KV Pin Point using 11 Mtr RSJ (GI) Pole							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**42246.60**		
1	11mtr RSJ (GI) Pole	**Nos.**	1	42246.60	42246.60	CDB @ 48%	
C	**Cost of materials for line**	**C**			**6960.29**		
1	33 KV V- Cross Arm (GI) (22 Kg each)	No	1	2664.00	2664.00	CDB @ 48%	
2	GI Back Clamp for V cross arm (33KV) (1.7 kg each)	No	1	222.00	222.00	CDB @ 48%	
3	33 KV F Clamp 2.9 Kg. each	No	1	444.00	444.00	CDB @ 48%	
4	GI Flat 50x6 mm	Kg	4.01	111.00	445.33	CDB @ 48%	
5	33 KV Pin Insulator, Polymer	No	3	710.40	2131.20	CDB @ 48%	
6	No 8 GI wire for earthing	Kg	2	111.00	222.00	CDB @ 48%	
7	Earthing of support (Coil Type)	No	1	245.68	245.68	CDB @ 48%	
8	GI Nuts Bolt & Washer	Kg	2	115.44	230.88	CDB @ 48%	
9	GI Barbered wire for anticlimbing	Kg	2	118.40	236.80	CDB @ 48%	
10	Danger Plate	No	1	118.40	118.40	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**49206.89**		
E	Landing Cost on Materials	**E**	18%		8857.24		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		1476.21		
G	**Sub Total**	**G=D+F**			**50683.10**		
H	T&P @ 2% of F	H	2%		1013.66		
I	Contingency @ 3% of F	I	3%		1520.49		
J	Transportation @ 7.5% of F	J	7.5%		3801.23		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+GST	L	5%		2567.33		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	M	10%		845.95		
N	**Sub Total**	**N**=E+G+H+I+J+ K+L+M			**69289.01**		
O	**Cost of Civil Works(Incl. tax)**	**O**			**4413.17**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	M3	0.45	7845.64	3530.54	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	M3	0.11	7845.64	882.63	RC	6200006564
P	**Sub Total**	**P=N+O**			**73702.18**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**73702.18**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		737.02		
T	**Grand Total**	**T=R+S**			**74439.20**		
				or say	**74439.00**		
				In Cr	**0.0074439**		

Annexure 60 : Cost Analysis of HT Stay Set (33 KV)							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**3264.88**		
1	HT Stay set complete	No	1	1554.00	1554.00	CDB @ 48%	
2	HT Stay Insulator	No	1	74.00	74.00	CDB @ 48%	
3	HT Stay Clamp	Pair	1	185.00	185.00	CDB @ 48%	
4	7/8 SWG GI wire for stay	Kg	11	111.00	1221.00	CDB @ 48%	
5	GI Nuts Bolt & Washer	Kg	2	115.44	230.88	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**3264.88**		
E	Landing Cost on Materials	**E**	18%		587.68		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		97.95		
G	**Sub Total**	**G=D+F**			**3362.83**		
H	T&P @ 2% of F	H	2%		67.26		
I	Contingency @ 3% of F	I	3%		100.88		
J	Transportation @ 7.5% of F	J	7.5%		252.21		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+GST	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	M	10%		396.81		
N	Sub Total	**N**=E+G+H+I+J+ K+L+M			**4767.67**		
O	**Cost of Civil Works**	**O**			**1569.13**		
1	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	Nos.	0.20	7845.64	1569.13	RC	6200006564
P	**Sub Total**	**P=N+O**			**6336.80**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**6336.80**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		63.37		
T	**Grand Total**	**T=R+S**			**6400.17**		
				or say	**6400.00**		
				In Cr	**0.00064**		

Annexure 61: Cost Analysis of 11 KV Single Pole Pin Point with 11 Mtr RSJ (GI) Pole							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**42246.60**		
1	11 Mtr RSJ (GI)	Nos	1	42246.60	42246.60	CDB @ 48%	
C	**Cost of materials for line**	**C**			**3948.49**		
1	11 KV V- Cross Arm (GI) (10.2 Kg each)	No	1	1198.80	1198.80	CDB @ 48%	
2	GI Back Clamp for 11 KV V cross arm	No	1	118.40	118.40	CDB @ 48%	
3	11 KV F Clamp 2.9 Kg. each	No	1	355.20	355.20	CDB @ 48%	
4	GI Flat 50x6 mm	Kg	4.01	111.00	445.33	CDB @ 48%	
5	11KV Pin Insulator, Polymer	No	3	296.00	888.00	CDB @ 48%	
6	No 8 GI wire for earthing	Kg	1	111.00	111.00	CDB @ 48%	
7	Earthing of support (Coil Type)	No	1	245.68	245.68	CDB @ 48%	
8	GI Nuts Bolt & Washer	Kg	2	115.44	230.88	CDB @ 48%	
9	GI Barbered wire for anticlimbing	Kg	2	118.40	236.80	CDB @ 48%	
10	Danger Plate	No	1	118.40	118.40	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**46195.09**		
E	Landing Cost on Materials	**E**	18%		8315.12		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		1385.85		
G	**Sub Total**	**G=D+F**			**47580.94**		
H	T&P @ 2% of F	H	2%		951.62		
I	Contingency @ 3% of F	I	3%		1427.43		
J	Transportation @ 7.5% of F	J	7.5%		3568.57		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	L	5%		2567.33		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	M	10%		479.90		
N	Sub Total	**N**=E+G+H+I+J+K+L+M			**64890.91**		
O	**Cost of Civil Works**	**O**			**4413.17**		
1	Concreting ratio 1:1.5:3(M-20 Grade)	M3	0.45	7845.64	3530.54	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	M3	0.1125	7845.64	882.63	RC	6200006564
P	**Sub Total**	**P=N+O**			**69304.08**		
Q	Other Overheads (including supervision charges)	Q	0%		0.00		
R	**Sub Total**	**R=P+Q**			**69304.08**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		693.04		
T	**Grand Total**	**T=R+S**			**69997.12**		
				or say	**69997.00**		
				In Cr	**0.0069997**		

Annexure 62: Cost Analysis of 11 KV Single Pole Pin Point with 9 Mtr PSC Pole							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**	**A**			**4440.00**		
1	9m long, 300 Kg. PSC Pole	Nos.	1	4440.00	4440.00	CDB @ 48%	
B	**Cost of RS Joist Poles /Transformers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**3948.49**		
1	11 KV V- Cross Arm (GI) (10.2 Kg each)	No	1	1198.80	1198.80	CDB @ 48%	
2	GI Back Clamp for 11 KV V cross arm	No	1	118.40	118.40	CDB @ 48%	
3	11 KV F Clamp 2.9 Kg. each	No	1	355.20	355.20	CDB @ 48%	
4	GI Flat 50x6 mm	Kg	4.01	111.00	445.33	CDB @ 48%	
5	11KV Pin Insulator, Polymer	No	3	296.00	888.00	CDB @ 48%	
6	No 8 GI wire for earthing	Kg	1	111.00	111.00	CDB @ 48%	
7	Earthing of support (Coil Type)	No	1	245.68	245.68	CDB @ 48%	
8	GI Nuts Bolt & Washer	Kg	2	115.44	230.88	CDB @ 48%	
9	GI Barbered wire for anticlimbing	Kg	2	118.40	236.80	CDB @ 48%	
10	Danger Plate	No	1	118.40	118.40	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**8388.49**		
E	Landing Cost on Materials	**E**	18%		1509.93		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		251.65		
G	**Sub Total**	**G=D+F**			**8640.15**		
H	T&P @ 2% of F	H	2%		172.80		
I	Contingency @ 3% of F	I	3%		259.20		
J	Transportation @ 7.5% of F	J	7.5%		648.01		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	K	20%		1079.28		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	M	10%		479.90		
N	Sub Total	**N**=E+G+H+I+J+ K+L+M			**12789.27**		
O	**Cost of Civil Works**	**O**			**4413.17**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(PerPole)	M3	0.45	7845.64	3530.54	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	M3	0.1125	7845.64	882.63	RC	6200006564
P	**Sub Total**	**P=N+O**			**17202.44**		
Q	Other Overheads (including supervision charges)	Q	0%		0.00		
R	**Sub Total**	**R=P+Q**			**17202.44**		
S	Labour Cess @ 1% of S=T	S	1%		172.02		
T	**Grand Total**	**T=R+S**			**17374.47**		
				or say	**17374.00**		
				In Cr	**0.0017374**		

Annexure 63: Cost Analysis of HT Stay Set (11 KV)							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**2820.88**		
1	HT Stay set complete	No	1	1554.00	1554.00	CDB @ 48%	
2	HT Stay Insulator	No	1	74.00	74.00	CDB @ 48%	
3	HT Stay Clamp	Pair	1	185.00	185.00	CDB @ 48%	
4	7/10 SWG GI wire for stay	Kg	7	111.00	777.00	CDB @ 48%	
5	GI Nuts Bolt & Washer	Kg	2	115.44	230.88	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**2820.88**		
E	Landing Cost on Materials	**E**	18%		507.76		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		84.63		
G	**Sub Total**	**G=D+F**			**2905.51**		
H	T&P @ 2% of F	H	2%		58.11		
I	Contingency @ 3% of F	I	3%		87.17		
J	Transportation @ 7.5% of F	J	7.5%		217.91		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+GST	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	M	10%		342.85		
N	Sub Total	**N**=E+G+H+I+J+ K+L+M			**4119.30**		
O	**Cost of Civil Works**	**O**			**1569.13**		
1	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	Nos.	0.20	7845.64	1569.13	RC	6200006564
P	**Sub Total**	**P=N+O**			**5688.43**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**5688.43**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		56.88		
T	**Grand Total**	**T=R+S**			**5745.32**		
				or say	**5745.00**		
				In Cr	**0.00057**		

Annexure 64: Cost Analysis of DSS Earthing							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers/Breakers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**5714.28**		
1	GI Flat 50x6mm	Kg	35.40	111.00	3929.40	CDB @ 48%	
2	40mm nominal bore GI Pipe earthing device	No.	1	1554.00	1554.00	CDB @ 48%	
3	GI Nuts Bolt & Washer	Kg.	2	115.44	230.88	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**5714.28**		
E	Landing Cost on Materials	**E**	18%		1028.57		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		171.43		
G	**Sub Total**	**G=D+F**			**5885.71**		
H	T&P @ 2% of F	H	2%		117.71		
I	Contingency @ 3% of F	I	3%		176.57		
J	Transportation @ 7.5% of F + Applicable taxes	J	7.5%		441.43		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		694.51		
N	Sub Total	**N**=E+G+H+I+J+ K+L+M			**8344.51**		
O	**Cost of Civil Works**	**O**			**4465.98**		
1	Earthing pit for pipe earthing	No.	1	4465.98	4465.98	RC	6200006564
P	**Sub Total**	**P=N+O**			**12810.49**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**12810.49**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		128.10		
T	**Grand Total**	**T=R+S**			**12938.59**		
				or say	**12939.00**		
In Cr.					**0.0013**		

Annexure 65 : Cost Analysis of PSS Earthing							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers/Breakers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**5714.28**		
1	GI Flat 50x6mm	Kg	35.40	111.00	3929.40	CDB @ 48%	
2	40mm nominal bore GI Pipe earthing device	No.	1	1554.00	1554.00	CDB @ 48%	
3	GI Nuts Bolt & Washer	Kg.	2	115.44	230.88	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**5714.28**		
E	Landing Cost on Materials	**E**	18%		1028.57		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		171.43		
G	**Sub Total**	**G=D+F**			**5885.71**		
H	T&P @ 2% of F	H	2%		117.71		
I	Contingency @ 3% of F	I	3%		176.57		
J	Transportation @ 7.5% of F + Applicable taxes	J	7.5%		441.43		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		694.51		
N	Sub Total	**N**=E+G+H+I+J+ K+L+M			**8344.51**		
O	**Cost of Civil Works**	**O**			**4465.98**		
1	Earthing pit for pipe earthing	No.	1	4465.98	4465.98	RC	6200006564
P	**Sub Total**	**P=N+O**			**12810.49**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**12810.49**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		128.10		
T	**Grand Total**	**T=R+S**			**12938.59**		
				or say	**12939.00**		
In Cr.					**0.0013**		

Annexure 66: Cost Analysis of Energy Meter for 11 KV OG Feeder (CRP)							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**27783.06**		
1	3P4W 11 KV -/5A HTTV Meter	Nos	1.00	8050.00	8050.00	RC	4200000326
2	Modem GPRS 4G/LTE Compatible, AMR Modem with Data Acquisition System for Communication from Energy Meter	Nos	1.00	3305.09	3305.09	RC	5000045476
3	12 C 2.5 sqmm Armoured Control Cable	Mtr	50.00	328.56	16427.97	RC	6200006837
D	**SUBTOTAL**	**D=A+B+C**			**27783.06**		
E	Landing Cost on Materials	**E**	18%		5000.95		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		833.49		
G	**Sub Total (F)**	**G=D+F**			**28616.55**		
H	T&P @ 2% of F	**H**	2%		572.33		
I	Contingency @ 3% of F	**I**	3%		858.50		
J	Transportation @ 7.5% of F	**J**	7.5%		2146.24		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		3376.75		
N	Sub Total (M)	**N**=E+G+H+I+J +K+L+M			**40571.32**		
O	**Cost of Civil Works**	**O**			**0.00**		
P	**Sub Total (O)**	**P=N+O**			**40571.32**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**40571.32**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		405.71		
T	**Grand Total**	**T=R+S**			**40977.03**		
or say					**40977.00**		
In Cr.					**0.0041**		

Annexure 67 : Cost Analysis of Energy Meter for 33 KV IC Feeder (CRP)							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**27783.06**		
1	3P4W 33 KV -/5A HTTV Meter	Nos	1.00	8050.00	8050.00	RC	4200000326
2	Modem GPRS 4G/LTE Compatible, AMR Modem with Data Acquisition System for Communication from Energy Meter	Nos	1.00	3305.09	3305.09	RC	5000045476
3	12 C 2.5 sqmm Armoured Control Cable	Mtr	50.00	328.56	16427.97	RC	6200006837
D	**SUBTOTAL**	**D=A+B+C**			**27783.06**		
E	Landing Cost on Materials	**E**	18%		5000.95		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		833.49		
G	**Sub Total (F)**	**G=D+F**			**28616.55**		
H	T&P @ 2% of F	**H**	2%		572.33		
I	Contingency @ 3% of F	**I**	3%		858.50		
J	Transportation @ 7.5% of F	**J**	7.5%		2146.24		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		3376.75		
N	Sub Total (M)	**N**=E+G+H+I+J +K+L+M			**40571.32**		
O	**Cost of Civil Works**	**O**			**0.00**		
P	**Sub Total (O)**	**P=N+O**			**40571.32**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**40571.32**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		405.71		
T	**Grand Total**	**T=R+S**			**40977.03**		
or say					**40977.00**		
In Cr.					**0.0041**		

Annexure 68: Cost Analysis of Energy Meter for PTR (CRP)							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**27783.06**		
1	3P4W 33 KV -/5A HTTV Meter	Nos	1.00	8050.00	8050.00	RC	4200000326
2	Modem GPRS 4G/LTE Compatible, AMR Modem with Data Acquisition System for Communication from Energy Meter	Nos	1.00	3305.09	3305.09	RC	5000045476
3	12 C 2.5 sqmm Armoured Control Cable	Mtr	50.00	328.56	16427.97	RC	6200006837
D	**SUBTOTAL**	**D=A+B+C**			**27783.06**		
E	Landing Cost on Materials	**E**	18%		5000.95		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		833.49		
G	**Sub Total (F)**	**G=D+F**			**28616.55**		
H	T&P @ 2% of F	**H**	2%		572.33		
I	Contingency @ 3% of F	**I**	3%		858.50		
J	Transportation @ 7.5% of F	**J**	7.5%		2146.24		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		3376.75		
N	Sub Total (M)	**N**=E+G+H+I+J +K+L+M			**40571.32**		
O	**Cost of Civil Works**	**O**			**0.00**		
P	**Sub Total (O)**	**P=N+O**			**40571.32**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**40571.32**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		405.71		
T	**Grand Total**	**T=R+S**			**40977.03**		
or say					**40977.00**		
In Cr.					**0.0041**		

Annexure 69: Cost Analysis of Energy Meter for DTR > 100 KVA							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**10780.80**		
1	3P4W LTCT Smart Meter (400/5 A)	Nos	1.00	6550.00	6550.00	RC	4200000326
2	LT CT Ring Type	Nos	4.00	530.00	2120.00	RC	5000020422
3	12 C 2.5 sqmm Armoured Control Cable	Mtr	5.00	328.56	1642.80	RC	6200006837
4	DT Meter box	Nos	1.00	468.00	468.00	RC	5000028954
D	**SUBTOTAL**	**D=A+B+C**			**10780.80**		
E	Landing Cost on Materials	**E**	18%		1940.54		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		323.42		
G	**Sub Total (F)**	**G=D+F**			**11104.22**		
H	T&P @ 2% of F	**H**	2%		222.08		
I	Contingency @ 3% of F	**I**	3%		333.13		
J	Transportation @ 7.5% of F	**J**	7.5%		832.82		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		1310.30		
N	Sub Total (M)	**N**=E+G+H+I+J +K+L+M			**15743.09**		
O	**Cost of Civil Works**	**O**			**0.00**		
P	**Sub Total (O)**	**P=N+O**			**15743.09**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**15743.09**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		157.43		
T	**Grand Total**	**T=R+S**			**15900.52**		
or say					**15901.00**		
In Cr.					**0.0016**		

Annexure 70 : Cost Analysis of Energy Meter for DTR < 100 KVA							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**12269.19**		
1	3 Ph 4 W W/C Smart Meter	Nos	1.00	5310.00	5310.00	RC	4200000326
2	12 C 2.5 sqmm Armoured Control Cable	Mtr	20.00	328.56	6571.19	RC	6200006837
3	Meter box (3Ph WC)	Nos	1.00	388.00	388.00	RC	5000028248
D	**SUBTOTAL**	**D=A+B+C**			**12269.19**		
E	Landing Cost on Materials	**E**	18%		2208.45		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		368.08		
G	**Sub Total (F)**	**G=D+F**			**12637.26**		
H	T&P @ 2% of F	**H**	2%		252.75		
I	Contingency @ 3% of F	**I**	3%		379.12		
J	Transportation @ 7.5% of F	**J**	7.5%		947.79		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		1491.20		
N	Sub Total (M)	**N**=E+G+H+I+J +K+L+M			**17916.57**		
O	**Cost of Civil Works**	**O**			**0.00**		
P	**Sub Total (O)**	**P=N+O**			**17916.57**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**17916.57**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		179.17		
T	**Grand Total**	**T=R+S**			**18095.74**		
or say					**18096.00**		
In Cr.					**0.0018**		

Sl No	Description of materials	Unit	Qty	Rate (Rs.)	Amount (Rs.)	Remarks	Ref.
	Annexure 71 : Cost Analysis of Installing 33 KV MU (O/D)						
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**99855.60**		
1	13 Mtr RSJ (GI) Pole	Nos.	2	49927.8	99855.60		
C	**Cost of materials for line**	**C**			**332242.63**		
1	33 KV Metering Unit Pole mounted (10/5 A, PT 50 VA, Class 0.2)	No	1	140600.00	140600.00	CDB @ 48%	
2	3Ph 4 Wire , 5A .0.2 S Class HT TV Meter, AMR Compatible HT Trivector Energy Meter with Box of DLMS Category-C	No	1	12076.80	12076.80	CDB @ 48%	
3	Modem GPRS 4G/LTE Compatible, AMR Modem with Data Acquisition System for Communication from Energy Meter	Nos	1.00	3305.09	3305.09	RC	5000045476
4	2.5 sqmm 10 core Control Cable	Mtr	50	488.40	24420.00	CDB @ 48%	
5	232 sqmm AAAC covered conductor	Km.	0.02	306060.00	6121.20	RC	
6	GI Channel 100x50x6 mm	Kg	67	111.00	7437.00	CDB @ 48%	
7	GI Channel 70x40x6 mm	Kg	150	111.00	16650.00	CDB @ 48%	
8	GI Angle 50x50x6 mm	Kg	45	111.00	4995.00	CDB @ 48%	
9	GI Flat 50x6 mm	Kg	24	111.00	2671.99	CDB @ 48%	
10	GI Flat 25x3 mm	Kg	56	111.00	6243.75	CDB @ 48%	
11	Fish Plate 50x6mm	Kg	4	111.00	444.00	CDB @ 48%	
12	Lightening Arrester 30 KV 10 KA, Polymer Type	Nos.	3	15318.00	45954.00	CDB @ 48%	
13	33 KV Disc Insulator (B & S), Polymer	No.	6	2131.20	12787.20	CDB @ 48%	
14	33 KV H/W Fitting (B & S type) for Disc Insulator	No.	6	2486.40	14918.40	CDB @ 48%	
15	Aluminium Socket 240 mm	Nos.	6	66.60	399.60	CDB @ 48%	
16	PG Clamp for 232 sqmm AAAC	No.	6	1702.00	10212.00	CDB @ 48%	
17	HT Comlpete Stay Set	Set	4	1554.00	6216.00	CDB @ 48%	
18	HT stay clamp GI (1.9Kg/pair)	Set	4	74.00	296.00	CDB @ 48%	
19	H.T. Stay Insulator (Type-C)	Nos.	4	185.00	740.00	CDB @ 48%	
20	7/8 SWG GI Stay Wire	Kg	43	111.00	4773.00	CDB @ 48%	
21	GI Pipe for earthing (40 mm)	Set	3	1554.00	4662.00	CDB @ 48%	
22	GI Nuts Bolt & Washer	Kg.	15	115.44	1731.60	CDB @ 48%	
23	GI Barbered wire for anticlimbing	Kg.	4	118.40	473.60	CDB @ 48%	
24	Danger Plate	No.	2	118.40	236.80	CDB @ 48%	
25	Fabrication & Galvanisation	Kg	262	14.80	3877.60	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**432098.23**		
E	Landing Cost on Materials	**E**	18%		77777.68		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		12962.95		
G	**Sub Total**	**G=D+F**			**445061.18**		
H	T&P @ 2% of F	H	2%		8901.22		
I	Contingency @ 3% of F	I	3%		13351.84		
J	Transportation @ 7.5% of F	J	7.5%		33379.59		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		6068.22		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		40380.77		
N	Sub Total	**N**=E+G+H+I +J+K+L+M			**624920.50**		
O	**Cost of Civil Works**	**O**			**28500.81**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	M3	0.90	7845.64	7061.08	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	M3	0.23	7845.64	1765.27	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	Nos.	0.80	7845.64	6276.51	RC	6200006564
4	Earthing pit for pipe earthing	No.	3	4465.98	13397.94	RC	6200006564
P	**Sub Total**	**P=N+O**			**653421.31**		
Q	**Other Overheads (including supervision charges) @ 6% of P**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**653421.31**		
S	**Labour Cess @ 1% of R**	**S**	**1%**		6534.21		
T	**Grand Total**	**T=R+S**			**659955.52**		
				or say	**659956.00**		
				In Cr	**0.065996**		

Annexure 72: Cost Analysis of Energy Meter for HT CONS.							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**10780.80**		
1	3P4W LTCT Smart Meter (400/5 A)	Nos	1.00	6550.00	6550.00	RC	4200000326
2	LT CT Ring Type	Nos	4.00	530.00	2120.00	RC	5000020422
3	12 C 2.5 sqmm Armoured Control Cable	Mtr	5.00	328.56	1642.80	RC	6200006837
4	DT Meter box	Nos	1.00	468.00	468.00	RC	5000028954
D	**SUBTOTAL**	**D=A+B+C**			**10780.80**		
E	Landing Cost on Materials	**E**	18%		1940.54		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		323.42		
G	**Sub Total (F)**	**G=D+F**			**11104.22**		
H	T&P @ 2% of F	**H**	2%		222.08		
I	Contingency @ 3% of F	**I**	3%		333.13		
J	Transportation @ 7.5% of F	**J**	7.5%		832.82		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		1310.30		
N	Sub Total (M)	**N**=E+G+H+I+J +K+L+M			**15743.09**		
O	**Cost of Civil Works**	**O**			**0.00**		
P	**Sub Total (O)**	**P=N+O**			**15743.09**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**15743.09**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		157.43		
T	**Grand Total**	**T=R+S**			**15900.52**		
or say					**15901.00**		
In Cr.					**0.0016**		

Annexure 73 : Cost Analysis of Conversion of Bare to AB Cable , 95 sqmm using 9 Mtr PSC Pole							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**				**57720.00**		
1	9 Mtr PSC Pole	Nos.	13	4440.00	57720.00	CDB @ 48%	
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**344932.47**		
1	Pole Clamp for AB Cable	Pair	13	296.00	3848.00	CDB @ 48%	
2	Dead end Clamp (For ABC)	Nos.	4	96.20	384.80	CDB @ 48%	
3	Suspension Clamp	Nos.	9	503.20	4528.80	CDB @ 48%	
4	Eye Hook for AB Cable	Nos.	13	88.80	1154.40	CDB @ 48%	
5	Piercing Connector	Nos.	12	118.40	1420.80	CDB @ 48%	
6	Neutral Connector Type B	Nos.	4	48.84	195.36	CDB @ 48%	
7	Earthing Coil	Nos.	13	245.68	3193.84	CDB @ 48%	
8	No.8 G.I.wire for earthing	Kg.	14	111.00	1554.00	CDB @ 48%	
9	G.I. Nut & Bolts(Assorted size)	Kg.	13	115.44	1500.72	CDB @ 48%	
10	Service Connection Distribution box (8 way)	Nos.	4	5920.00	23680.00	CDB @ 48%	
11	4C X 25sqmm LT XLPE Cable	Mtr.	20	165.51	3310.20	RC	6200004328
12	LT Stay Set	Nos.	3	769.60	2308.80	CDB @ 48%	
13	7/12SWG Stay wire	Kg.	9.15	111.00	1015.65	CDB @ 48%	
14	LT Stay Clamp (1.40 Kg./Pair)	Pair	3	162.80	488.40	CDB @ 48%	
15	LT Stay Insulator	Nos.	3	44.40	133.20	CDB @ 48%	
16	Cable	CKm	1.05	282110.00	296215.50	RC	6200004825
D	**SUBTOTAL**	**D=A+B+C**			**402652.47**		
E	Landing Cost on Materials	**E**	18%		72477.44		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		12079.57		
G	**Sub Total (F)**	**G=D+F**			**414732.04**		
H	T&P @ 2% of F	**H**	2%		8294.64		
I	Contingency @ 3% of F	**I**	3%		12441.96		
J	Transportation @ 7.5% of F	**J**	7.5%		31104.90		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		14030.58		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		41923.09		
N	Sub Total (M)	**N**=E+G+H+I+J +K+L+M			**595004.66**		
O	**Cost of Civil Works**	**O**			**86858.65**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	6	7845.64	45897.01	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	1.4625	7845.64	11474.25	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	0.60	7845.64	4707.39	RC	6200006564
4	Dismantalling of line	Km	3.00	8260.00	24780.00	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**681863.31**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**681863.31**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		6818.63		
T	**Grand Total**	**T=R+S**			**688681.95**		
or say					**688682.00**		
				In Cr.	**0.06887**		

Annexure 74 : Cost Analysis of Conversion of Bare to AB Cable , 120 sqmm using 9 Mtr PSC Pole							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**				**62160.00**		
1	9 Mtr PSC Pole	Nos.	14	4440.00	62160.00	CDB @ 48%	
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**419599.26**		
1	Pole Clamp for AB Cable	Pair	14	296.00	4144.00	CDB @ 48%	
2	Dead end Clamp (For ABC)	Nos.	4	96.20	384.80	CDB @ 48%	
3	Suspension Clamp	Nos.	10	503.20	5032.00	CDB @ 48%	
4	Eye Hook for AB Cable	Nos.	14	88.80	1243.20	CDB @ 48%	
5	Piercing Connector	Nos.	12	118.40	1420.80	CDB @ 48%	
6	Neutral Connector Type B	Nos.	4	48.84	195.36	CDB @ 48%	
7	Earthing Coil	Nos.	14	245.68	3439.52	CDB @ 48%	
8	No.8 G.I.wire for earthing	Kg.	15	111.00	1665.00	CDB @ 48%	
9	G.I. Nut & Bolts(Assorted size)	Kg.	14	115.44	1616.16	CDB @ 48%	
10	Service Connection Distribution box (8 way)	Nos.	4	5920.00	23680.00	CDB @ 48%	
11	4C X 25sqmm LT XLPE Cable	Mtr.	20	165.51	3310.20	RC	6200004328
12	LT Stay Set	Nos.	4	769.60	3078.40	CDB @ 48%	
13	7/12SWG Stay wire	Kg.	14.784	111.00	1641.02	CDB @ 48%	
14	LT Stay Clamp (1.40 Kg./Pair)	Pair	4	162.80	651.20	CDB @ 48%	
15	LT Stay Insulator	Nos.	4	44.40	177.60	CDB @ 48%	
16	1.1 KV AB Cable (3X120+1X70+1X16 SQMM)	CKm	1.05	350400.00	367920.00	RC	6200004825
D	**SUBTOTAL**	**D=A+B+C**			**481759.26**		
E	Landing Cost on Materials	**E**	18%		86716.67		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		14452.78		
G	**Sub Total (F)**	**G=D+F**			**496212.04**		
H	T&P @ 2% of F	**H**	2%		9924.24		
I	Contingency @ 3% of F	**I**	3%		14886.36		
J	Transportation @ 7.5% of F	**J**	7.5%		37215.90		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		15109.85		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		50998.09		
N	Sub Total (M)	**N**=E+G+H+I+J +K+L+M			**711063.16**		
O	**Cost of Civil Works**	**O**			**92840.95**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	6	7845.64	49427.55	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	1.575	7845.64	12356.89	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	0.80	7845.64	6276.51	RC	6200006564
4	Dismantalling of line	Km	3.00	8260.00	24780.00	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**803904.12**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**803904.12**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		8039.04		
T	**Grand Total**	**T=R+S**			**811943.16**		
or say					**811943.00**		
				In Cr.	**0.08119**		

Annexure 75 - Cost Analysis of 33 KV Bay with VCB (O/D), CT, PT, CRP (I/D) for Feeder protection							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**968186.40**		
1	11 Mtr RS Joist Pole	Nos.	4	42246.60	168986.40	CDB @ 48%	
2	33KV VCB 1600Amp with indoor CR Panel & outdoor CT (600-300-150/1-1A, 15VA) for feeder protection(without PT)	No	1	799200.00	799200.00	CDB @ 48%	
C	**Cost of materials for line**				**912791.40**		
1	GI channel 100x50x6mm.4.5mtr. Long,8Nos.(9.2kg./mtr.)	Kg.	344	111.00	38184.00	CDB @ 48%	
2	GI Channel 75x40x6mm.-8x4mtr. Long, (6.8Kg./mtr.)	Kg.	321	111.00	35631.00	CDB @ 48%	
3	GI angle 50x50x6mm.-8x4.5mtr. Long, (4.5Kg./mtr.)	Kg.	225	111.00	24975.00	CDB @ 48%	
4	Fish Plate	Kg.	8	137.64	1101.12	CDB @ 48%	
5	33KV Pin insulator polymer	No.	6	710.40	4262.40	CDB @ 48%	
6	33KV Disc Insulator (polymer)	No.	18	2130.95	38357.08	CDB @ 48%	
7	33KV H/W Fitting (B&S Type) 120KN (Single tension HW Fitting for 232mmsq Conductor)	No.	18	2486.40	44755.20	CDB @ 48%	
8	PG Clamp for 232mmsq AAA Conductor	No.	21	1702.00	35742.00	CDB @ 48%	
9	Aluminium Socket 240 mm	No.	18	66.60	1198.80	CDB @ 48%	
10	232sqmm AAA Conductor	Km.	0.10	231620.00	23162.00	CDB @ 48%	
11	33 KV 1250 Amp Isolator with earth switch	Set	1	149317.20	149317.20	CDB @ 48%	
12	33 KV 1250 Amp Isolator without earth switch	Set	2	135094.40	270188.80	CDB @ 48%	
13	Lightening Arrester(30KV, 10A)	Nos.	3	15318.00	45954.00	CDB @ 48%	
14	G.I. Pipe Earthing 3mtr. Long (OD/ID-50mm/40mm)	No.	7	1554.00	10878.00	CDB @ 48%	
15	GI Flat 50x6mm	Kg.	296	111.00	32856.00	CDB @ 48%	
16	G.I. Nuts, bolt & Washer	Kg.	30	115.44	3463.20	CDB @ 48%	
17	Danger Plate	No.	4	118.40	473.60	CDB @ 48%	
18	Fabrication & Galvanisation	Kg.	890	14.80	13172.00	CDB @ 48%	
19	2.5mmsq 10core Control Cable	Mtr	100	381.84	38184.00	CDB @ 48%	
20	2.5mmsq 4core Control Cable	Mtr	100	165.76	16576.00	CDB @ 48%	
21	33KV 1ph Oil Cooled PT	No	3	28120.00	84360.00	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**1880977.80**		
E	Landing Cost on Materials	**E**	18%		338576.00		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		56429.33		
G	**Sub Total (F)**	**G=D+F**			**1937407.14**		
H	T&P @ 2% of F	**H**	2%		38748.14		
I	Contingency @ 3% of F	**I**	3%		58122.21		
J	Transportation @ 7.5% of F	**J**	7.5%		145305.54		
K	Erection Charges for PSC Pole (20% OF (A+A*3%)) + GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		58836.69		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	**M**	10%		110940.67		
N	Sub Total (M)	**N=E+G+H+I+J +K+L+M**			**2687936.39**		
O	**Cost of Civil Works**	**O**			**243293.68**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	M3	1.80	7845.64	14122.16	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	M3	0.45	7845.64	3530.54	RC	6200006564
3	Earthing pit for pipe earthing	No.	7	4465.98	31261.87	RC	6200006564
4	Foundation for VCB	No.	1	53827.89	53827.89	RC	TPCODL RC
5	Foundation for CT & PT	No.	1	48479.59	48479.59	RC	TPCODL RC
6	Extension of Cable Trench	Rmt	10	9207.16	92071.62	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**2931230.07**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**2931230.07**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		29312.30		
T	**Grand Total**	**T=R+S**			**2960542.37**		
or say					**2960542.00**		
				In Cr	**0.29605**		

Annexure - 76 Cost Analysis of 33 KV VCB (O/D), CT, CRP (I/D) replacement for Feeder protection							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**799200.00**		
1	33KV VCB 1600Amp with indoor CR Panel & outdoor CT (600-300-150/1-1A, 15VA) for feeder protection(without PT)	No	1	799200.00	799200.00	CDB @ 48%	
C	**Cost of materials for line**				**399363.20**		
1	33 KV 1250 Amp Isolator without earth switch	Set	2	135094.40	270188.80	CDB @ 48%	
2	Lightening Arrester(30KV, 10A)	Nos.	3	15318.00	45954.00	CDB @ 48%	
3	G.I. Pipe Earthing 3mtr. Long (OD/ID-50mm/40mm)	No.	4	1554.00	6216.00	CDB @ 48%	
4	GI Flat 50x6mm	Kg.	190	111.00	21090.00	CDB @ 48%	
5	G.I. Nuts, bolt & Washer	Kg.	10	115.44	1154.40	CDB @ 48%	
6	2.5mmsq 10core Control Cable	Mtr	100	381.84	38184.00	CDB @ 48%	
7	2.5mmsq 4core Control Cable	Mtr	100	165.76	16576.00	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**1198563.20**		
E	Landing Cost on Materials	**E**	18%		215741.38		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		35956.90		
G	**Sub Total (F)**	**G=D+F**			**1234520.10**		
H	T&P @ 2% of F	**H**	2%		24690.40		
I	Contingency @ 3% of F	**I**	3%		37035.60		
J	Transportation @ 7.5% of F	**J**	7.5%		92589.01		
K	Erection Charges for PSC Pole (20% OF (A+A*3%)) + GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		48567.38		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	**M**	10%		48538.60		
N	Sub Total (M)	**N**=E+G+H+I+J +K+L+M			**1701682.47**		
O	**Cost of Civil Works**	**O**			**109935.55**		
1	Earthing pit for pipe earthing	No.	4	4465.98	17863.93	RC	6200006564
2	Extension of Cable Trench	Rmt	10	9207.16	92071.62	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**1811618.02**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1811618.02**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		18116.18		
T	**Grand Total**	**T=R+S**			**1829734.20**		
or say					**1829734.00**		
				In Cr	**0.18297**		

Annexure 77 : Cost Analysis of 33 KV Bay with VCB (O/D), CT, PT, CRP (I/D) for Transformer protection							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**873200.00**		
1	33KV Outdoor VCB-1600A, with indoor CR panel without PT, with outdoor CT (CTR-600-300-150/1-1 A, 15VA, STC 25KA/3sec, class: 0.5, 5P10) for Transformer protection	No	1	873200.00	873200.00	CDB @ 48%	
C	**Cost of materials for line**				**639654.44**		
1	GI Channel 75x40x6mm.-8x4mtr. Long, (6.8Kg./mtr.)	Kg.	129	111.00	14319.00	CDB @ 48%	
2	Fish Plate	Kg.	4	137.64	550.56	CDB @ 48%	
3	33KV Pin insulator polymer	No.	6	710.40	4262.40	CDB @ 48%	
4	33KV Disc Insulator (polymer)	No.	18	2130.95	38357.08	CDB @ 48%	
5	33KV H/W Fitting (B&S Type) 120KN (Single tension HW Fitting for 232mmsq Conductor)	No.	12	2486.40	29836.80	CDB @ 48%	
6	PG Clamp for 232mmsq AAA Conductor	No.	21	1702.00	35742.00	CDB @ 48%	
7	Aluminium Socket 240 mm	No.	18	66.60	1198.80	CDB @ 48%	
8	232sqmm AAA Conductor	Km.	0.10	231620.00	23162.00	CDB @ 48%	
9	33 KV 1250 Amp Isolator without earth switch	Set	2	135094.40	270188.80	CDB @ 48%	
10	Lightening Arrester(30KV, 10A)	Nos.	3	15318.00	45954.00	CDB @ 48%	
11	G.I. Pipe Earthing 3mtr. Long (OD/ID-50mm/40mm)	No.	5	1554.00	7770.00	CDB @ 48%	
12	GI Flat 50x6mm	Kg.	225	111.00	24975.00	CDB @ 48%	
13	G.I. Nuts, bolt & Washer	Kg.	20	115.44	2308.80	CDB @ 48%	
14	Fabrication & Galvanisation	Kg.	129	14.80	1909.20	CDB @ 48%	
15	2.5mmsq 10core Control Cable	Mtr	100	381.84	38184.00	CDB @ 48%	
16	2.5mmsq 4core Control Cable	Mtr	100	165.76	16576.00	CDB @ 48%	
17	33KV 1ph Oil Cooled PT	No	3	28120.00	84360.00	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**1512854.44**		
E	Landing Cost on Materials	**E**	18%		272313.80		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		45385.63		
G	**Sub Total (F)**	**G=D+F**			**1558240.08**		
H	T&P @ 2% of F	**H**	2%		31164.80		
I	Contingency @ 3% of F	**I**	3%		46747.20		
J	Transportation @ 7.5% of F	**J**	7.5%		116868.01		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		53064.36		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		77743.60		
N	Sub Total (M)	**N**=E+G+H+I+J +K+L+M			**2156141.85**		
O	**Cost of Civil Works**	**O**			**216709.02**		
1	Earthing pit for Pipe earthing	No.	5	4465.98	22329.91	RC	6200006564
2	Foundation for VCB	No.	1	53827.89	53827.89	RC	TPCODL RC
3	Foundation for CT & PT	No.	1	48479.59	48479.59	RC	TPCODL RC
4	Extension of Cable Trench	Rmt	10	9207.16	92071.62	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**2372850.87**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**2372850.87**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		23728.51		
T	**Grand Total**	**T=R+S**			**2396579.38**		
or say					**2396579.00**		
				In Cr	**0.23966**		

Annexure 78: Cost Analysis of 33 KV VCB (O/D), CT, CRP (I/D) replacement for Transformer protection							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**873200.00**		
1	PT, with outdoor CT (CTR-600-300-150/1-1 A, 15VA, STC 25KA/3sec, class: 0.5, 5P10) for Transformer protection	No	1	873200.00	873200.00	CDB @ 48%	
C	**Cost of materials for line**				**400162.40**		
1	Aluminium Socket 240 mm	No.	12	66.60	799.20	CDB @ 48%	
2	33 KV 1250 Amp Isolator without earth switch	Set	2	135094.40	270188.80	CDB @ 48%	
3	Lightening Arrester(30KV, 10A)	Nos.	3	15318.00	45954.00	CDB @ 48%	
4	G.I. Pipe Earthing 3mtr. Long (OD/ID-50mm/40mm)	No.	4	1554.00	6216.00	CDB @ 48%	
5	GI Flat 50x6mm	Kg.	190	111.00	21090.00	CDB @ 48%	
6	G.I. Nuts, bolt & Washer	Kg.	10	115.44	1154.40	CDB @ 48%	
7	2.5mmsq 10core Control Cable	Mtr	100	381.84	38184.00	CDB @ 48%	
8	2.5mmsq 4core Control Cable	Mtr	100	165.76	16576.00	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**1273362.40**		
E	Landing Cost on Materials	**E**	18%		229205.23		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		38200.87		
G	**Sub Total (F)**	**G=D+F**			**1311563.27**		
H	T&P @ 2% of F	**H**	2%		26231.27		
I	Contingency @ 3% of F	**I**	3%		39346.90		
J	Transportation @ 7.5% of F	**J**	7.5%		98367.25		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		53064.36		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		48635.74		
N	Sub Total (M)	**N**=E+G+H+I+J +K+L+M			**1806414.02**		
O	**Cost of Civil Works**	**O**			**109935.55**		
1	Earthing pit for Pipe earthing	No.	4	4465.98	17863.93	RC	6200006564
2	Extension of Cable Trench	Rmt	10	9207.16	92071.62	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**1916349.56**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1916349.56**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		19163.50		
T	**Grand Total**	**T=R+S**			**1935513.06**		
or say					**1935513.00**		
				In Cr	**0.19355**		

Annexure 79: Cost Analysis of 11 KV Bay with VCB (O/D), CT, PT, CRP (I/D) for feeder protection							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**572242.00**		
1	11KV VCB 800Amp with outdoor CT (600-300-150/1-1A) for feeder protection with CRP	No	1	572242.00	572242.00	CDB @ 48%	
C	**Cost of materials for line**				**246536.92**		
1	GI Channel 75x40x6mm.-8x4mtr. Long, (6.8Kg./mtr.)	Kg.	100	111.00	11100.00	CDB @ 48%	
2	Aluminium Socket 120 mm	No.	12	32.56	390.72	CDB @ 48%	
3	11 KV 800 Amp Isolator without earth switch	Set	2	63995.20	127990.40	CDB @ 48%	
4	Lightening Arrester(12KV, 10A)	Nos.	3	5254.00	15762.00	CDB @ 48%	
5	G.I. Pipe Earthing 3mtr. Long (OD/ID-40mm)	No.	5	1554.00	7770.00	CDB @ 48%	
6	GI Flat 50x6mm	Kg.	225	111.00	24975.00	CDB @ 48%	
7	G.I. Nuts, bolt & Washer	Kg.	20	115.44	2308.80	CDB @ 48%	
8	Fabrication & others	Kg.	100	14.80	1480.00	CDB @ 48%	
9	2.5mmsq 10core Control Cable	Mtr	100	381.84	38184.00	CDB @ 48%	
10	2.5mmsq 4core Control Cable	Mtr	100	165.76	16576.00	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**818778.92**		
E	Landing Cost on Materials	**E**	18%		147380.21		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		24563.37		
G	**Sub Total (F)**	**G=D+F**			**843342.29**		
H	T&P @ 2% of F	**H**	2%		16866.85		
I	Contingency @ 3% of F	**I**	3%		25300.27		
J	Transportation @ 7.5% of F	**J**	7.5%		63250.67		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GSt	**L**	5%		34775.15		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	**M**	10%		29964.10		
N	Sub Total (M)	**N**=E+G+H+I+J+K+L+M			**1160879.52**		
O	**Cost of Civil Works**	**O**			**216709.02**		
1	Earthing pit for pipe earthing	No.	5	4465.98	22329.91	RC	6200006564
2	Foundation for VCB	No.	1	53827.89	53827.89	RC	TPCODL RC
3	Foundation for CT & PT	No.	1	48479.59	48479.59	RC	TPCODL RC
4	Extension of Cable Trench	Rmt	10	9207.16	92071.62	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**1377588.54**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1377588.54**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		13775.89		
T	**Grand Total**	**T=R+S**			**1391364.43**		
or say					**1391364.00**		
				In Cr	**0.13914**		

Annexure 80: Cost Analysis of Replacement of 11 KV VCB (O/D), CT, CRP (I/D) for feeder protection							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**572242.00**		
1	11KV VCB 800Amp with outdoor CT (600-300-150/1-1A) for feeder protection with CRP	No	1	572242.00	572242.00	CDB @ 48%	
C	**Cost of materials for line**				**77670.40**		
1	G.I. Pipe Earthing 3mtr. Long (OD/ID-40mm)	No.	3	1554.00	4662.00	CDB @ 48%	
2	GI Flat 50x6mm	Kg.	154	111.00	17094.00	CDB @ 48%	
3	G.I. Nuts, bolt & Washer	Kg.	10	115.44	1154.40	CDB @ 48%	
4	2.5mmsq 10core Control Cable	Mtr	100	381.84	38184.00	CDB @ 48%	
5	2.5mmsq 4core Control Cable	Mtr	100	165.76	16576.00	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**649912.40**		
E	Landing Cost on Materials	**E**	18%		116984.23		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		19497.37		
G	**Sub Total (F)**	**G=D+F**			**669409.77**		
H	T&P @ 2% of F	**H**	2%		13388.20		
I	Contingency @ 3% of F	**I**	3%		20082.29		
J	Transportation @ 7.5% of F	**J**	7.5%		50205.73		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GSt	**L**	5%		34775.15		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	**M**	10%		9440.06		
N	Sub Total (M)	**N**=E+G+H+I+J+K+L+M			**914285.43**		
O	**Cost of Civil Works**	**O**			**105469.57**		
1	Earthing pit for pipe earthing	No.	3	4465.98	13397.94	RC	6200006564
2	Extension of Cable Trench	Rmt	10	9207.16	92071.62	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**1019755.00**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1019755.00**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		10197.55		
T	**Grand Total**	**T=R+S**			**1029952.55**		
or say					**1029953.00**		
				In Cr	**0.10300**		

Annexure 81: Cost Analysis of 11 KV Bay with VCB (O/D), CT, PT, CRP (I/D) for Transformer protection							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**572242.00**		
1	11KV VCB 800Amp with outdoor CT (600-300-150/1-1A) for feeder protection with CRP	No	1	572242.00	572242.00	CDB @ 48%	
C	**Cost of materials for line**				**322016.92**		
1	GI Channel 75x40x6mm.-8x4mtr. Long, (6.8Kg./mtr.)	Kg.	100	111.00	11100.00	CDB @ 48%	
2	Aluminium Socket 120 mm	No.	12	32.56	390.72	CDB @ 48%	
3	11 KV 800 Amp Isolator without earth switch	Set	2	63995.20	127990.40	CDB @ 48%	
4	Lightening Arrester(12KV, 10A)	Nos.	3	5254.00	15762.00	CDB @ 48%	
5	G.I. Pipe Earthing 3mtr. Long (OD/ID-40mm)	No.	5	1554.00	7770.00	CDB @ 48%	
6	GI Flat 50x6mm	Kg.	225	111.00	24975.00	CDB @ 48%	
7	G.I. Nuts, bolt & Washer	Kg.	20	115.44	2308.80	CDB @ 48%	
8	Fabrication & others	Kg.	100	14.80	1480.00	CDB @ 48%	
9	11 KV 1ph Oil Cooled PT	No	3	25160.00	75480.00	CDB @ 48%	
10	2.5mmsq 10core Control Cable	Mtr	100	381.84	38184.00	CDB @ 48%	
11	2.5mmsq 4core Control Cable	Mtr	100	165.76	16576.00	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**894258.92**		
E	Landing Cost on Materials	**E**	18%		160966.61		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		26827.77		
G	**Sub Total (F)**	**G=D+F**			**921086.69**		
H	T&P @ 2% of F	**H**	2%		18421.73		
I	Contingency @ 3% of F	**I**	3%		27632.60		
J	Transportation @ 7.5% of F	**J**	7.5%		69081.50		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GSt	**L**	5%		34775.15		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	**M**	10%		39137.94		
N	Sub Total (M)	**N**=E+G+H+I+ J+K+L+M			**1271102.21**		
O	**Cost of Civil Works**	**O**			**216709.02**		
1	Earthing pit for pipe earthing	No.	5	4465.98	22329.91	RC	6200006564
2	Foundation for VCB	No.	1	53827.89	53827.89	RC	TPCODL RC
3	Foundation for CT & PT	No.	1	48479.59	48479.59	RC	TPCODL RC
4	Extension of Cable Trench	Rmt	10	9207.16	92071.62	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**1487811.23**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1487811.23**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		14878.11		
T	**Grand Total**	**T=R+S**			**1502689.34**		
	or say				**1502689.00**		
				In Cr	**0.15027**		

Annexure 82: Cost Analysis of replacement 11 KV Bay with VCB (O/D), CT, CRP (I/D) for Transformer protection							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**572242.00**		
1	11KV VCB 800Amp with outdoor CT (600-300-150/1-1A) for transformer protection with CRP	No	1	572242.00	572242.00	CDB @ 48%	
C	**Cost of materials for line**				**77670.40**		
1	G.I. Pipe Earthing 3mtr. Long (OD/ID-40mm)	No.	3	1554.00	4662.00	CDB @ 48%	
2	GI Flat 50x6mm	Kg.	154	111.00	17094.00	CDB @ 48%	
3	G.I. Nuts, bolt & Washer	Kg.	10	115.44	1154.40	CDB @ 48%	
4	2.5mmsq 10core Control Cable	Mtr	100	381.84	38184.00	CDB @ 48%	
5	2.5mmsq 4core Control Cable	Mtr	100	165.76	16576.00	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**649912.40**		
E	Landing Cost on Materials	**E**	18%		116984.23		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		19497.37		
G	**Sub Total (F)**	**G=D+F**			**669409.77**		
H	T&P @ 2% of F	**H**	2%		13388.20		
I	Contingency @ 3% of F	**I**	3%		20082.29		
J	Transportation @ 7.5% of F	**J**	7.5%		50205.73		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GSt	**L**	5%		34775.15		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	**M**	10%		9440.06		
N	Sub Total (M)	**N**=E+G+H+I+J+K+L+M			**914285.43**		
O	**Cost of Civil Works**	**O**			**105469.57**		
1	Earthing pit for pipe earthing	No.	3	4465.98	13397.94	RC	6200006564
2	Extension of Cable Trench	Rmt	10	9207.16	92071.62	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**1019755.00**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1019755.00**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		10197.55		
T	**Grand Total**	**T=R+S**			**1029952.55**		
or say					**1029953.00**		
				In Cr	**0.10300**		

Annexure 83: Cost Analysis of 33 KV LA							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**51668.28**		
1	Lightning Arrester(30KV,10KA) (Station Class,class-2)	Nos.	3.00	15318.00	45954.00	CDB @ 48%	
2	GI Flat earthing 50X6 mm	Kg	35.40	111.00	3929.40	CDB @ 48%	
3	GI Pipe for Earthing (40mm)	Nos.	1.00	1554.00	1554.00	CDB @ 48%	
4	GI Nut Bolt & washers	Kg	2.00	115.44	230.88	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**51668.28**		
E	Landing Cost on Materials	**E**	18%		9300.29		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		1550.05		
G	**Sub Total**	**G=D+F**			**53218.33**		
H	T&P @ 2% of F	H	2%		1064.37		
I	Contingency @ 3% of F	I	3%		1596.55		
J	Transportation @ 7.5% of F	J	7.5%		3991.37		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	M	10%		6279.76		
N	Sub Total	**N**=E+G+H+I+ J+K+L+M			**75450.67**		
O	**Cost of Civil Works(Incl. tax)**	**O**			**4465.98**		
1	Earthing Pit for Pipe earthing	Nos.	1.00	4465.98	4465.98		6200006564
P	**Sub Total**	**P=N+O**			**79916.65**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**79916.65**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		799.17		
T	**Grand Total**	**T=R+S**			**80715.82**		
				or say	**80716.00**		
				In Cr	**0.008072**		

Annexure 84: Cost Analysis of 11 KV LA							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**19628.13**		
1	Lightning Arrester(12KV,10KA) Station Class	Nos.	3.00	5254.00	15762.00	CDB @ 48%	
2	GI Flat earthing 25X6 mm	Kg	18.75	111.00	2081.25	CDB @ 48%	
3	GI Pipe for Earthing (40mm)	Nos.	1.00	1554.00	1554.00	CDB @ 48%	
4	GI Nut Bolt & washers	Kg	2.00	115.44	230.88	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**19628.13**		
E	Landing Cost on Materials	**E**	18%		3533.06		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		588.84		
G	**Sub Total**	**G=D+F**			**20216.97**		
H	T&P @ 2% of F	H	2%		404.34		
I	Contingency @ 3% of F	I	3%		606.51		
J	Transportation @ 7.5% of F	J	7.5%		1516.27		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	M	10%		2385.60		
N	Sub Total	**N**=E+G+H+I+J+K+L+M			**28662.76**		
O	**Cost of Civil Works**	**O**			**4465.98**		
1	Earthing Pit for Pipe earthing	Nos.	1.00	4465.98	4465.98	RC	6200006564
P	**Sub Total**	**P=N+O**			**33128.74**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**33128.74**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		331.29		
T	**Grand Total**	**T=R+S**			**33460.03**		
				or say	**33460.00**		
				In Cr	**0.003346**		

Annexure 85: Cost Analysis of 100 KVA, 33/0.4 KV Sub Station							
Sl. No.	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of Transfomer/ Breaker/Joist Pole**	**B**			**559422.58**		
(i)	**Transformer**						
1	100 KVA, 33/0.4 KV Trf.	Nos.	1	474929.38	474929.38	RC	6200004481
(ii)	**Joist Pole**						
1	11 mtr long RSJ (GI)	Nos.	2	42246.60	84493.20	CDB @ 48%	
C	**Cost of materials for Sub-Stations**	**C**			**291003.79**		
1	GI Channel 100x50x6mm	Kg.	67	111.00	7437.00	CDB @ 48%	
2	GI Channel 75x40x6mm	Kg.	99.96	111.00	11095.56	CDB @ 48%	
3	GI Angle 50x50x6mm	Kg.	11.25	111.00	1248.75	CDB @ 48%	
4	33 KV Polymer Disc Insulator B&S	Nos.	3	2131.20	6393.60	CDB @ 48%	
5	33 KVH/W fitting for Disc Insulator	Nos.	3	5120.80	15362.40	CDB @ 48%	
6	PG Clamp for 232 sqmm AAAC	Nos.	3	1702.00	5106.00	CDB @ 48%	
7	GI Flat 50x6mm	Kg	201.072	111.00	22318.99	CDB @ 48%	
8	33 KV A/B Switch (400 A,3 pole, Hz type)	Set	1	28223.60	28223.60	CDB @ 48%	
9	33 KV HG Fuse 3pole (200 A)	Set	1	19195.60	19195.60	CDB @ 48%	
10	33KV Lightning Arrestor	No.	3	15318.00	45954.00	CDB @ 48%	
11	1.1KV, 4Cx300sqmm XLPE Cable	Mtr.	50	1571.61	78580.50	RC	6200004327
12	Dist Box with MCCB (160 A)	Nos.	1	36140.12	36140.12	CDB @ 48%	
13	Al Cable Socket 300mm	Nos.	16	76.96	1231.36	CDB @ 48%	
14	G.I. Pipe Earthing 3mtr. Long (OD/ID-50mm/40mm)	No.	5	1554.00	7770.00	CDB @ 48%	
15	G.I. Bolts, Nuts & Washers	Kg.	20	115.44	2308.80	CDB @ 48%	
16	Fabrication, Galvalisation	Kg.	178.21	14.80	2637.51	CDB @ 48%	
D	**SUBTOTAL(D)**	**D=A+B+C**			**850426.37**		
E	Landing Cost on Materials	**E**	18%		153076.75		
F	Stock, Storage & Insurance @ 3% of D=E	F	3%		25512.79		
G	**Sub Total (F)**	**G=D+F**			**875939.16**		
H	T&P @ 2% of F	H	2%		17518.78		
I	Contingency @ 3% of F	I	3%		26278.17		
J	Transportation @ 7.5% of F	J	7.5%		65695.44		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+GST	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+GST	L	5%		33996.11		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	M	10%		35368.60		
N	Sub Total (M)	N=E+G+H+I +J+K+L+M			**1207873.01**		
O	**Cost of Civil Works**	O			**238459.84**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	M3	0.90	7845.64	7061.08	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	M3	0.23	7845.64	1765.27	RC	6200006564
3	Station Transformer Plinth & Fenching	Nos.	1.00	207303.58	207303.58	RC	TPWODL CIVIL
4	Earthing pit for pipe earthing	No.	5	4465.98	22329.91	RC	6200006564
P	**Sub Total**	**P=N+O**			**1446332.85**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1446332.85**		
S	**Labour Cess @ 1% of R=S**	**S**	**1%**		14463.33		
T	**Grand Total**	**T=R+S**			**1460796.18**		
	or say				**1460796.00**		
	In Cr.				**0.1461**		

Annexure 86: Cost Analysis for Installation of Battery 48 V (Replacement)							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref.**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers/Breakers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**85322.00**		
1	48V, 100 AH.maintenance free VRLA Battery(Set.4 No's of 12V Battery)	Nos	1.00	85322.00	85322.00	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**85322.00**		
E	Landing Cost on Materials	**E**	18%		15357.96		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		2559.66		
G	**Sub Total**	**G=D+F**			**87881.66**		
H	T&P @ 2% of F	H	2%		1757.63		
I	Contingency @ 3% of F	I	3%		2636.45		
J	Transportation @ 7.5% of F + Applicable taxes	J	7.5%		6591.12		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		10370.04		
N	Sub Total	**N**=E+G+H+I+J+K+L+M			**124594.86**		
O	**Cost of Civil Works**	**O**			**6035.11**		
1	Dismantalling of Existing Battery	Nos	1	6035.11	6035.11	RC	6200006564
P	**Sub Total**	**P=N+O**			**130629.97**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**130629.97**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		1306.30		
T	**Grand Total**	**T=R+S**			**131936.27**		
				or say	**131936.00**		
In Cr.					**0.0132**		

Annexure 87: Cost Analysis for Battery Charger 48 V (Replacement)							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers/Breakers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**213297.60**		
1	48V,100A Float cum Boost Charger(Floot Boost current as per above VRLA Battery)	Nos	1.00	213297.60	213297.60	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**213297.60**		
E	Landing Cost on Materials	**E**	18%		38393.57		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		6398.93		
G	**Sub Total**	**G=D+F**			**219696.53**		
H	T&P @ 2% of F	H	2%		4393.93		
I	Contingency @ 3% of F	I	3%		6590.90		
J	Transportation @ 7.5% of F + Applicable taxes	J	7.5%		16477.24		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		25924.19		
N	Sub Total	**N**=E+G+H+I+J+ K+L+M			**311476.35**		
O	**Cost of Civil Works**	**O**			**6035.11**		
1	Dismantalling of Existing Battery Charger	Nos	1	6035.11	6035.11	RC	6200006564
P	**Sub Total**	**P=N+O**			**317511.46**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**317511.46**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		3175.11		
T	**Grand Total**	**T=R+S**			**320686.58**		
				or say	**320687.00**		
In Cr.					**0.0321**		

Annexure 88: Cost Analysis for Installation of ACDB PANEL TYPE A (Replacement)							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers/Breakers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**252542.37**		
1	ACDB PANEL TYPE A	Nos	1.00	252542.37	252542.37	RC	6200002723
D	**SUBTOTAL**	**D=A+B+C**			**252542.37**		
E	Landing Cost on Materials	**E**	18%		45457.63		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		7576.27		
G	**Sub Total**	**G=D+F**			**260118.64**		
H	T&P @ 2% of F	H	2%		5202.37		
I	Contingency @ 3% of F	I	3%		7803.56		
J	Transportation @ 7.5% of F + Applicable taxes	J	7.5%		19508.90		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		30694.00		
N	Sub Total	**N**=E+G+H+I+J+K+L+M			**368785.10**		
O	**Cost of Civil Works**	**O**			**6035.11**		
1	Dismantalling of Existing ACDB	Nos	1	6035.11	6035.11	RC	6200006564
P	**Sub Total**	**P=N+O**			**374820.21**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**374820.21**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		3748.20		
T	**Grand Total**	**T=R+S**			**378568.41**		
				or say	**378568.00**		
In Cr.					**0.0379**		

Annexure 89: Cost Analysis for Installation of DCDB PANEL 48/24 V (replacement)							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers/Breakers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**96000.00**		
1	DCDB PANEL 48/24 V	Nos.	1.00	96000.00	96000.00	RC	4200002575
D	**SUBTOTAL**	**D=A+B+C**			**96000.00**		
E	Landing Cost on Materials	**E**	18%		17280.00		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		2880.00		
G	**Sub Total**	**G=D+F**			**98880.00**		
H	T&P @ 2% of F	H	2%		1977.60		
I	Contingency @ 3% of F	I	3%		2966.40		
J	Transportation @ 7.5% of F + Applicable taxes	J	7.5%		7416.00		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		11667.84		
N	Sub Total	**N**=E+G+H+I+J+ K+L+M			**140187.84**		
O	**Cost of Civil Works**	**O**			**6035.11**		
1	Dismantalling of Existing DCDB	Nos	1	6035.11	6035.11	RC	6200006564
P	**Sub Total**	**P=N+O**			**146222.95**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**146222.95**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		1462.23		
T	**Grand Total**	**T=R+S**			**147685.18**		
				or say	**147685.00**		
In Cr.					**0.0148**		

Annexure 90: Cost Analysis of Refurbishment of PSS							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**1351121.60**		
1	33 KV 1250 Amp Isolator with earth switch	Set	1	149317.20	149317.20	CDB @ 48%	
2	33 KV 1250 Amp Isolator without earth switch	Set	4	135094.40	540377.60	CDB @ 48%	
3	11 KV 800 Amp Isolator with earth switch	Set	4	78218.00	312872.00	CDB @ 48%	
4	11 KV 800 Amp Isolator without earth switch	Set	2	63995.20	127990.40	CDB @ 48%	
5	33 KV Disc Insulator (B &S, 120 KN), Polymer Type	Nos.	18.00	2131.20	38361.60	CDB @ 48%	
6	Single tension HW fitting for 232 sq.mm conductor	Nos.	18.00	2486.40	44755.20	CDB @ 48%	
7	G.I. Pipe Earthing 3mtr. Long (OD/ID-50mm/40mm)	No.	20	1554.00	31080.00	CDB @ 48%	
8	232 sqmm AAA Conductor	Mtr	100	231.62	23162.00	CDB @ 48%	
9	GI Flat 50x6mm	Kg.	708	111.00	78588.00	CDB @ 48%	
10	G.I. Nuts, bolt & Washer	Kg.	40	115.44	4617.60	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**1351121.60**		
E	Landing Cost on Materials	**E**	18%		243201.89		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		40533.65		
G	**Sub Total (F)**	**G=D+F**			**1391655.25**		
H	T&P @ 2% of F	**H**	2%		27833.10		
I	Contingency @ 3% of F	**I**	3%		41749.66		
J	Transportation @ 7.5% of F	**J**	7.5%		104374.14		
K	Erection Charges for PSC Pole (20% OF (A+A*3%)) + GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	**M**	10%		164215.32		
N	Sub Total (M)	**N**=E+G+H+I+J +K+L+M			**1973029.36**		
O	**Cost of Civil Works**	**O**			**1025219.63**		
1	Earthing pit for pipe earthing	No.	20	4465.98	89319.63	RC	6200006564
2	Gravel Spreading inside PSS for rennovation purpose	C Mtr	25	3000.00	75000.00	RC	6200006564
3	Yard Rennovation	C Mtr	20	6500.00	130000.00	RC	TPWODL CIVIL
4	Fenching of Switchyard area	Mtr	50	6500.00	325000.00	RC	TPWODL CIVIL
5	Toe wall of Switchyard area	CMtr	25	6500.00	162500.00	RC	TPWODL CIVIL
6	Cable Trench Cover Slab in in Sq Mtr	Nos.	25	2016.00	50400.00	RC	TPWODL CIVIL
7	New Cable trench Extension	CMtr	10	7300.00	73000.00	RC	TPWODL CIVIL
8	Water Hydrant system for Earthing	Nos.	1	120000.00	120000.00	RC	TPWODL CIVIL
P	**Sub Total (O)**	**P=N+O**			**2998248.99**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**2998248.99**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		29982.49		
T	**Grand Total**	**T=R+S**			**3028231.48**		
	or say				**3028231.00**		
				In Cr	**0.30282**		

Annexure 91: Cost Analysis of Automation inside PSS							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**240842.00**		
1	Ethernet Switch, 16 port	Nos.	2	103771.00	207542.00	RC	5000016788
2	Lan Cable, Armoured, SFTP	Mtr.	200	68.50	13700.00	RC	4200002853
3	RJ 45 Connectors	Nos.	1	1500.00	1500.00	LS	
4	4Cx2.5sqmm. Cable for AC and DC supply to RTU	Mtr.	100	181.00	18100.00	RC	5000016788
D	**SUBTOTAL**	**D=A+B+C**			**240842.00**		
E	Landing Cost on Materials	**E**	18%		43351.56		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		7225.26		
G	**Sub Total**	**G=D+F**			**248067.26**		
H	T&P @ 2% of F	H	2%		4961.35		
I	Contingency @ 3% of F	I	3%		7442.02		
J	Transportation @ 7.5% of F	J	7.5%		18605.04		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		29271.94		
N	Sub Total	**N**=E+G+H+I+J +K+L+M			**351699.16**		
O	**Cost of Civil Works**	**O**			**0.00**		
P	**Sub Total**	**P=N+O**			**351699.16**		
Q	**Other Overheads (including supervision charges) @ 6% of P**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**351699.16**		
S	**Labour Cess @ 1% of R**	**S**	**1%**		3516.99		
T	**Grand Total**	**T=R+S**			**355216.16**		
				or say	**355216.00**		
In Cr.					**0.035522**		

Annexure 92: Cost Analysis of Augmentation of 11 KV lines along with associated switching items and other accessories							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**591452.40**		
1	11mtr RSJ (GI) Pole	Nos.	14	42246.60	591452.40	CDB @ 48%	
C	**Cost of materials for line**	**C**			**363510.20**		
1	100 sqmm AAA Conductor	Km.	3.15	81400.00	256410.00	CDB @ 48%	
2	GI Channel 100x50x6mm	Kg	54	111.00	5994.00	CDB @ 48%	
3	GI Channel 75x40x6mm	Kg	80	111.00	8880.00	CDB @ 48%	
4	GI Angle 50x50x6mm	Kg	36	111.00	3996.00	CDB @ 48%	
5	Fish Plate 50x6mm	Kg	4	111.00	444.00	CDB @ 48%	
6	GI Flat 50x6mm	Kg	24	111.00	2664.00	CDB @ 48%	
7	GI Flat 25x6mm	Kg	15	111.00	1665.00	CDB @ 48%	
8	11 KV V- Cross Arm (10.2 Kg each)	No.	12	1198.80	14385.60	CDB @ 48%	
9	11 KV F Clamp 2.9 Kg. each	No.	12	355.20	4262.40	CDB @ 48%	
10	11KV Disc Insulator (B & S), Polymer	No.	6	1702.00	10212.00	CDB @ 48%	
11	11KV H/W Fitting (B & S type) for Disc Insulator	No.	6	740.00	4440.00	CDB @ 48%	
12	PG Clamp for 100 sqmm AAAC	No.	6	858.40	5150.40	CDB @ 48%	
13	11KV Pin Insulator, Polymer	No.	39	296.00	11544.00	CDB @ 48%	
14	HT Stay set complete	No.	6	1554.00	9324.00	CDB @ 48%	
15	HT Stay Insulator	No.	6	74.00	444.00	CDB @ 48%	
16	HT Stay Clamp	Pair	6	185.00	1110.00	CDB @ 48%	
17	7/10 SWG GI wire for stay	Kg.	42	111.00	4662.00	CDB @ 48%	
18	No-8 GI wire (for earthing)	Kg.	16	111.00	1776.00	CDB @ 48%	
19	Earthing of support (Coil Type)	No.	12	245.68	2948.16	CDB @ 48%	
20	40mm nominal bore GI Pipe earthing device	No.	1	1554.00	1554.00	CDB @ 48%	
21	GI Nuts Bolt & Washer	Kg.	36	115.44	4155.84	CDB @ 48%	
22	GI Barbered wire for anticlimbing	Kg.	28	118.40	3315.20	CDB @ 48%	
23	Danger Plate	No.	14	118.40	1657.60	CDB @ 48%	
24	Fabrication & Galvanisation	Kg.	170.00	14.80	2516.00	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**954962.60**		
E	Landing Cost on Materials	**E**	18%		171893.27		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		28648.88		
G	**Sub Total**	**G=D+F**			**983611.48**		
H	T&P @ 2% of F	H	2%		19672.23		
I	Contingency @ 3% of F	I	3%		29508.34		
J	Transportation @ 7.5% of F	J	7.5%		73770.86		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		35942.56		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		44181.03		
N	Sub Total	**N**=E+G+H+I+J+ K+L+M			**1358579.77**		
O	**Cost of Civil Works**	**O**			**75665.19**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	6	7845.64	49427.55	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	1.575	7845.64	12356.89	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	1.20	7845.64	9414.77	RC	6200006564
4	Earthing pit for pipe earthing	No	1	4465.98	4465.98	RC	6200006564
P	**Sub Total**	**P=N+O**			**1434244.96**		
Q	**Other Overheads (including supervision charges) @ 6% of P**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1434244.96**		
S	**Labour Cess @ 1% of R**	**S**	**1%**		14342.45		
T	**Grand Total**	**T=R+S**			**1448587.41**		
				or say	**1448587.00**		
				In Cr	**0.144859**		

Annexure 93: Cost Analysis of Augmentation of 33 KV lines along with associated switching items and other accessories							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0**		
B	**Cost of RS Joist Poles**	**B**			**698989.20**		
1	13 Mtr RS Joist Pole (GI)	Nos	14	49927.80	698989.20	CDB @ 48%	
C	**Cost of materials for line**	**C**			**894401.00**		
1	232 sqmm AAA Conductor	Km	3.15	231620.00	729603.00	CDB @ 48%	
2	GI Channel 100x50x6mm	Kg	54.00	111.00	5994.00	CDB @ 48%	
3	GI Channel 75x40x6mm	Kg	80.00	111.00	8880.00	CDB @ 48%	
4	GI Angle 50x50x6mm	Kg	36.00	111.00	3996.00	CDB @ 48%	
5	Fish Plate 50x6mm	Kg	4.00	111.00	444.00	CDB @ 48%	
6	GI Flat 50x6mm	Kg	12.00	111.00	1332.00	CDB @ 48%	
7	GI Flat 25x6mm	Kg	19.00	111.00	2109.00	CDB @ 48%	
8	33 KV V- Cross Arm (GI)	No	12	2664.00	31968.00	CDB @ 48%	
9	Back Clamp for 'V' Cross Arm	No	12	222.00	2664.00	CDB @ 48%	
10	33 KV F Clamp	No	12	444.00	5328.00	CDB @ 48%	
11	33KV Disc Insulator (B & S), Polymer	No	6	2131.20	12787.20	CDB @ 48%	
12	33KV H/W Fitting (B & S type) for Disc Insulator	No	6	2486.40	14918.40	CDB @ 48%	
13	PG Clamp for 232Sqmm AAAC	No	6	1702.00	10212.00	CDB @ 48%	
14	33KV Pin Insulator, Polymer	No	39	710.40	27705.60	CDB @ 48%	
15	HT Stay set complete	No	6	1554.00	9324.00	CDB @ 48%	
16	HT Stay Insulator	No	6	74.00	444.00	CDB @ 48%	
17	HT Stay Clamp	Pair	6	185.00	1110.00	CDB @ 48%	
18	7/8 SWG GI wire for stay	Kg	65.00	111.00	7215.00	CDB @ 48%	
19	No. 8 SWG GI wire for earthing	Kg	20	111.00	2220.00	CDB @ 48%	
20	Earthing of support (Coil Type)	No	12	245.68	2948.16	CDB @ 48%	
21	40mm nominal bore GI Pipe earthing device	No	1	1554.00	1554.00	CDB @ 48%	
22	GI Nuts Bolt & Washer	Kg	36	115.44	4155.84	CDB @ 48%	
23	GI Barbered wire for anticlimbing	Kg	28	118.40	3315.20	CDB @ 48%	
24	Danger Plate	No	14	118.40	1657.60	CDB @ 48%	
25	Fabrication & Galvanisation	Kg	170.00	14.80	2516.00	CDB @ 48%	
D	**SUBTOTAL(D)**	**D=A+B+C**			**1593390.20**		
E	Landing Cost on Materials	E	18%		286810.24		
F	Stock, Storage & Insurance @ 3% of D=E	F	3%		47801.71		
G	**Sub Total (F)**	**G= D+F**			**1641191.91**		
H	T&P @ 2% of F	H	2%		32823.84		
I	Contingency @ 3% of F	I	3%		49235.76		
J	Transportation @ 7.5% of F	J	7.5%		123089.39		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))	L	5%		42477.57		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))	L	10%		108705.50		
N	Sub Total (M)	**N=E+G+H+I+J +K+L**			**2284334.20**		
O	**Cost of Civil Works(Incl. tax)**	**O**			**108233.19**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	M3	6.30	7845.64	49427.55	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	M3	1.58	7845.64	12356.89	RC	6200006564
3	Dismantling of 100 sqmm AAAC	CKm	3.00	10856.00	32568.00	RC	6200006564
4	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	1.20	7845.64	9414.77	RC	6200006564
5	Earthing pit for pipe earthing	No.	1	4465.98	4465.98	RC	6200006564
P	**Sub Total (O)**	**O=M+N**			**2392567.39**		
Q	**Other Overheads (including supervision charges) @ 6% of (O)=Q**	**Q**	**0%**		0.00		
R	**Sub Total (S)**	**S=O+P+Q+R**			**2392567.39**		
S	**Labour Cess @ 1% of S=T**	**T**	**1%**		23925.67		
T	**Grand Total (U)= S+T**	**U=S+T**			**2416493.07**		
				or say	**2416493.00**		
				In Cr	**0.2416493**		

Annexure 94: Cost Analysis of Installing 33 KV FPI with DTU							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**162934.88**		
1	33 KV FPI	Nos.	3	15995.00	47985.00	RC	6200003659
2	DTU with Aux PT	Set	1	111500.00	111500.00	RC	6200003659
3	GI Flat 25x6mm	Kg	15	111.00	1665.00	CDB @ 48%	
4	40mm nominal bore GI Pipe earthing device	No	1	1554.00	1554.00	CDB @ 48%	
5	GI Nuts Bolt & Washer	Kg	2	115.44	230.88	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**162934.88**		
E	Landing Cost on Materials	**E**	18%		29328.28		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		4888.05		
G	**Sub Total**	**G=D+F**			**167822.93**		
H	T&P @ 2% of F	H	2%		3356.46		
I	Contingency @ 3% of F	I	3%		5034.69		
J	Transportation @ 7.5% of F	J	7.5%		12586.72		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		19803.11		
N	Sub Total	**N**=E+G+H+I+J+K+L+M			**237932.18**		
O	**Cost of Civil Works(Incl. tax)**	**O**			**4465.98**		
1	Earthing pit for pipe earthing	No.	1	4465.98	4465.98	RC	6200006564
P	**Sub Total**	**P=N+O**			**242398.16**		
Q	**Other Overheads (including supervision charges) @ 6% of P**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**242398.16**		
S	**Labour Cess @ 1% of R**	**S**	**1%**		2423.98		
T	**Grand Total**	**T=R+S**			**244822.14**		
				or say	**244822.00**		
				In Cr	**0.024482**		

Annexure 95: Cost Analysis of Installing 11 KV FPI with DTU							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**162934.88**		
1	11 KV FPI	Nos.	3	15995.00	47985.00	RC	6200003659
2	DTU with Aux PT	Set	1	111500.00	111500.00	RC	6200003659
3	GI Flat 25x6mm	Kg	15	111.00	1665.00	CDB @ 48%	
4	40mm nominal bore GI Pipe earthing device	No	1	1554.00	1554.00	CDB @ 48%	
5	GI Nuts Bolt & Washer	Kg	2	115.44	230.88	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**162934.88**		
E	Landing Cost on Materials	**E**	18%		29328.28		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		4888.05		
G	**Sub Total**	**G=D+F**			**167822.93**		
H	T&P @ 2% of F	H	2%		3356.46		
I	Contingency @ 3% of F	I	3%		5034.69		
J	Transportation @ 7.5% of F	J	7.5%		12586.72		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		19803.11		
N	Sub Total	**N**=E+G+H+I+J+ K+L+M			**237932.18**		
O	**Cost of Civil Works**	**O**			**4465.98**		
1	Earthing pit for pipe earthing	No.	1	4465.98	4465.98	RC	6200006564
P	**Sub Total**	**P=N+O**			**242398.16**		
Q	**Other Overheads (including supervision charges) @ 6% of P**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**242398.16**		
S	**Labour Cess @ 1% of R**	**S**	**1%**		2423.98		
T	**Grand Total**	**T=R+S**			**244822.14**		
				or say	**244822.00**		
				In Cr	**0.024482**		

Annexure 96: Cost Analysis of Installing 33 KV DP WITH ISOLATOR (800 A) without ES							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**99855.60**		
1	13 Mtr RSJ (GI) Pole	Nos.	2	49927.8	99855.60	CDB @ 48%	
C	**Cost of materials for line**	**C**			**276974.74**		
1	33 KV Isolator (800 A) without ES	Set	1	125134.00	125134.00	CDB @ 48%	
2	232 sqmm AAAC covered conductor	Km.	0.02	306060.00	6121.20	RC	6200004476
3	Top Channel 100x50x6 mm	Kg	67	111.00	7437.00	CDB @ 48%	
4	Bracing Channel 70x40x6 mm	Kg	150	111.00	16650.00	CDB @ 48%	
5	Bracing Angle 50x50x6 mm	Kg	45	111.00	4995.00	CDB @ 48%	
6	GI Flat 50x6 mm	Kg	24	111.00	2671.99	CDB @ 48%	
7	GI Flat 25x3 mm	Kg	56	111.00	6243.75	CDB @ 48%	
8	Fish Plate 50x6mm	Kg	4	111.00	444.00	CDB @ 48%	
9	Lightning Arrester(30KV,10KA) (Station Class,class-2)	Nos.	3	15318.00	45954.00	CDB @ 48%	
10	33 KV Disc Insulator (B & S), Polymer	No.	6	2131.20	12787.20	CDB @ 48%	
11	33 KV H/W Fitting (B & S type) for Disc Insulator	No.	6	2486.40	14918.40	CDB @ 48%	
12	Aluminium Socket 240 mm	Nos.	6	66.60	399.60	CDB @ 48%	
13	PG Clamp for 232 sqmm AAAC	No.	6	1702.00	10212.00	CDB @ 48%	
14	HT Comlpete Stay Set	Set	4	1554.00	6216.00	CDB @ 48%	
15	HT stay clamp GI (1.9Kg/pair)	Set	4	74.00	296.00	CDB @ 48%	
16	H.T. Stay Insulator (Type-C)	Nos.	4	185.00	740.00	CDB @ 48%	
17	7/8 SWG GI Stay Wire	Kg	43	111.00	4773.00	CDB @ 48%	
18	GI Pipe for earthing (40 mm)	Set	3	1554.00	4662.00	CDB @ 48%	
19	GI Nuts Bolt & Washer	Kg.	15	115.44	1731.60	CDB @ 48%	
20	GI Barbered wire for anticlimbing	Kg.	4	118.40	473.60	CDB @ 48%	
21	Danger Plate	No.	2	118.40	236.80	CDB @ 48%	
22	Fabrication & Galvanisation	Kg	262	14.80	3877.60	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**376830.34**		
E	Landing Cost on Materials	**E**	18%		67829.46		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		11304.91		
G	**Sub Total**	**G=D+F**			**388135.25**		
H	T&P @ 2% of F	H	2%		7762.71		
I	Contingency @ 3% of F	I	3%		11644.06		
J	Transportation @ 7.5% of F	J	7.5%		29110.14		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		6068.22		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		33663.51		
N	Sub Total	**N**=E+G+H+I +J+K+L+M			**544213.36**		
O	**Cost of Civil Works(Incl. tax)**	**O**			**28500.81**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	M3	0.90	7845.64	7061.08	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	M3	0.23	7845.64	1765.27	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	Nos.	0.80	7845.64	6276.51	RC	6200006564
4	Earthing pit for pipe earthing	No.	3	4465.98	13397.94	RC	6200006564
P	**Sub Total**	**P=N+O**			**572714.16**		
Q	**Other Overheads (including supervision charges) @ 6% of P**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**572714.16**		
S	**Labour Cess @ 1% of R**	**S**	**1%**		5727.14		
T	**Grand Total**	**T=R+S**			**578441.30**		
				or say	**578441.00**		
				In Cr	**0.057844**		

Annexure 97: Cost Analysis of Replacement of ISOLATOR (800 A) without ES							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**145732.93**		
1	33 KV Isolator (800 A) without ES	Set	1	125134.00	125134.00	CDB @ 48%	
2	232 sqmm AAAC covered conductor	Km.	0.02	306060.00	6121.20	RC	6200004476
3	GI Flat 25x3 mm	Kg	19	111.00	2081.25	CDB @ 48%	
4	Aluminium Socket 240 mm	Nos.	6	66.60	399.60	CDB @ 48%	
5	PG Clamp for 232 sqmm AAAC	No.	6	1702.00	10212.00	CDB @ 48%	
6	GI Pipe for earthing (40 mm)	Set	1	1554.00	1554.00	CDB @ 48%	
7	GI Nuts Bolt & Washer	Kg.	2	115.44	230.88	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**145732.93**		
E	Landing Cost on Materials	**E**	18%		26231.93		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		4371.99		
G	**Sub Total**	**G=D+F**			**150104.92**		
H	T&P @ 2% of F	H	2%		3002.10		
I	Contingency @ 3% of F	I	3%		4503.15		
J	Transportation @ 7.5% of F	J	7.5%		11257.87		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		17712.38		
N	Sub Total	**N**=E+G+H+I +J+K+L+M			**212812.34**		
O	**Cost of Civil Works(Incl. tax)**	**O**			**4465.98**		
4	Earthing pit for pipe earthing	No.	1	4465.98	4465.98	RC	6200006564
P	**Sub Total**	**P=N+O**			**217278.32**		
Q	**Other Overheads (including supervision charges) @ 6% of P**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**217278.32**		
S	**Labour Cess @ 1% of R**	**S**	**1%**		2172.78		
T	**Grand Total**	**T=R+S**			**219451.10**		
				or say	**219451.00**		
				In Cr	**0.021945**		

Annexure 98: Cost Analysis of Installing 11 KV ABS							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**25112.64**		
1	11 KV AB Switch (400 A)	Set	1	17538.00	17538.00	CDB @ 48%	
2	100sqmm AAAC covered conductor	Km.	0.015	133200.00	1998.00	CDB @ 48%	
3	Aluminium Socket 120mm	Nos.	6	32.56	195.36	CDB @ 48%	
4	PG Clamp for 100 sqmm AAAC	No.	6	858.40	5150.40	CDB @ 48%	
5	GI Nuts Bolt & Washer	Kg.	2	115.44	230.88	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**25112.64**		
E	Landing Cost on Materials	**E**	18%		4520.28		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		753.38		
G	**Sub Total**	**G=D+F**			**25866.02**		
H	T&P @ 2% of F	H	2%		517.32		
I	Contingency @ 3% of F	I	3%		775.98		
J	Transportation @ 7.5% of F	J	7.5%		1939.95		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		3052.19		
N	Sub Total	**N**=E+G+H+I+J +K+L+M			**36671.74**		
O	**Cost of Civil Works**	**O**			**1200.00**		
1	Dismantalling of Existing AB Switch		1	1200.00	1200.00	RC	6200006564
P	**Sub Total**	**P=N+O**			**37871.74**		
Q	**Other Overheads (including supervision charges) @ 6% of P**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**37871.74**		
S	**Labour Cess @ 1% of R**	**S**	**1%**		378.72		
T	**Grand Total**	**T=R+S**			**38250.45**		
				or say	**38250.00**		
In Cr.					**0.0038**		

Annexure 99: Cost Analysis of 33 KV 4 Way RMU							
Sl No	Description of materials	Unit	Qty	Rate (Rs.)	Amount (Rs.)	Remarks	Ref
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers/Breakers**	**B**			**3018066.00**		
1	33 KV RMU (4 way LLBB, AUX PT, Motorized)	Nos.	1	3018066.00	3018066.00	RC	6200004551
C	**Cost of materials for line**	**C**			**850614.20**		
1	FRTU	Nos.	1	203390.00	203390.00	RC	6200002841
2	GI Flat 25x6mm	Kg	20.00	111.00	2220.00	CDB @ 48%	
3	33KV 1C 630 Sq mm XLPE Cable	Mtr	280.00	1278.81	358067.80	RC	6200006717
4	33 KV O/D Jointing kit for 1C 630Sq mm XLPE Cable	No.	14	8521.00	119294.00	RC	6200005562
5	33 KV I/D Jointing kit for 1C 630 Sq mm XLPE Cable	No.	14	7710.00	107940.00	RC	6200005562
6	40mm nominal bore GI Pipe earthing device	No.	2	1554.00	3108.00	CDB @ 48%	
7	GI Nuts Bolt & Washer	Kg.	10	115.44	1154.40	CDB @ 48%	
8	HDPE Pipe for Riser (110mm)	Mtr	72	770.00	55440.00	RC	6200006564
D	**SUBTOTAL**	**D=A+B+C**			**3868680.20**		
E	Landing Cost on Materials	**E**	18%		696362.44		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		116060.41		
G	**Sub Total**	**G=D+F**			**3984740.60**		
H	T&P @ 2% of F	H	2%		79694.81		
I	Contingency @ 3% of F	I	3%		119542.22		
J	Transportation @ 7.5% of F + Applicable taxes	J	7.5%		298855.55		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		183407.87		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		103383.65		
N	Sub Total	**N**=E+G+H+I+J+ K+L+M			**5465987.13**		
O	**Cost of Civil Works**	**O**			**134011.96**		
1	RMU Plinth with Brick, Mortar, 12 mm cement plaster as per drawing	Nos.	1	33040.00	33040.00	RC	6200006564
2	GI Fencing for RMU	Sqmtr	20	4602.00	92040.00	RC	6200006564
3	Earthing Pit for GI Pipe Earthing	Nos.	2	4465.98	8931.96	RC	6200006564
P	**Sub Total**	**P=N+O**			**5599999.10**		
Q	**Other Overheads (including supervision charges) @ 6% of P**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**5599999.10**		
S	**Labour Cess @ 1% of R**	**S**	**1%**		55999.99		
T	**Grand Total**	**T=R+S**			**5655999.09**		
				or say	**5655999.00**		
				In Cr	**0.565600**		

Annexure 100: Cost Analysis of 33 KV 3 Way RMU							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers/Breakers**	**B**			**2740548.00**		
1	33 KV RMU (3 way LLB, AUX PT, Motorized)	Nos.	1	2740548.00	2740548.00	RC	6200004550
C	**Cost of materials for line**	**C**			**669525.11**		
1	FRTU	Nos.	1	203390.00	203390.00	RC	6200002841
2	GI Flat 25x6mm	Kg	20.00	111.00	2220.00	CDB @ 48%	
3	33KV 1C 630 Sq mm XLPE Cable	Mtr	200.00	1278.81	255762.71	RC	6200006717
4	33 KV O/D Jointing kit for 1C 630Sq mm XLPE Cable	No.	10	8521.00	85210.00	RC	6200005562
5	33 KV I/D Jointing kit for 1C 630 Sq mm XLPE Cable	No.	10	7710.00	77100.00	RC	6200005562
6	40mm nominal bore GI Pipe earthing device	No.	2	1554.00	3108.00	CDB @ 48%	
7	GI Nuts Bolt & Washer	Kg.	10	115.44	1154.40	CDB @ 48%	
8	HDPE Pipe for Riser (110mm)	Mtr	54	770.00	41580.00	RC	6200006564
D	**SUBTOTAL**	**D=A+B+C**			**3410073.11**		
E	Landing Cost on Materials	**E**	18%		613813.16		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		102302.19		
G	**Sub Total**	**G=D+F**			**3512375.31**		
H	T&P @ 2% of F	H	2%		70247.51		
I	Contingency @ 3% of F	I	3%		105371.26		
J	Transportation @ 7.5% of F + Applicable taxes	J	7.5%		263428.15		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		166543.10		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		81374.08		
N	Sub Total	**N**=E+G+H+I+J+ K+L+M			**4813152.56**		
O	**Cost of Civil Works**	**O**			**134011.96**		
1	RMU Plinth with Brick, Mortar, 12 mm cement plaster as per drawing	Nos.	1	33040.00	33040.00	RC	6200006564
2	GI Fencing for RMU	Sqmtr	20	4602.00	92040.00	RC	6200006564
3	Earthing Pit for GI Pipe Earthing	Nos.	2	4465.98	8931.96	RC	6200006564
P	**Sub Total**	**P=N+O**			**4947164.53**		
Q	**Other Overheads (including supervision charges) @ 6% of P**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**4947164.53**		
S	**Labour Cess @ 1% of R**	**S**	**1%**		49471.65		
T	**Grand Total**	**T=R+S**			**4996636.17**		
				or say	**4996636.00**		
				In Cr	**0.499664**		

Annexure 101: Cost Analysis of 11 KV 4 Way RMU							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers/Breakers**	**B**			**936314.86**		
1	11 KV RMU (4 way, LLBB, AUX PT & FRTU)	Nos.	1	936314.86	936314.86	RC	6200004548
C	**Cost of materials for line**	**C**			**328701.03**		
1	GI Flat 25x6mm	Kg	20.00	111.00	2220.00	CDB @ 48%	
2	11KV 3C 300Sq mm XLPE Cable	Mtr	80.00	1883.05	150644.07	RC	6200006717
3	11 KV O/D Jointing kit for 3C 300Sq mm XLPE Cable	No.	4	19565.60	78262.40	CDB @ 48%	
4	11 KV I/D Jointing kit for 3C 300Sq mm XLPE Cable	No.	4	13428.04	53712.16	CDB @ 48%	
5	40mm nominal bore GI Pipe earthing device	No.	2	1554.00	3108.00	CDB @ 48%	
6	GI Nuts Bolt & Washer	Kg.	10	115.44	1154.40	CDB @ 48%	
7	GI Pipe Riser (160mm)	Mtr	24	1650.00	39600.00	RC	6200006564
D	**SUBTOTAL**	**D=A+B+C**			**1265015.89**		
E	Landing Cost on Materials	**E**	18%		227702.86		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		37950.48		
G	**Sub Total**	**G=D+F**			**1302966.36**		
H	T&P @ 2% of F	H	2%		26059.33		
I	Contingency @ 3% of F	I	3%		39088.99		
J	Transportation @ 7.5% of F + Applicable taxes	J	7.5%		97722.48		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		56899.85		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		39950.32		
N	Sub Total	**N**=E+G+H+I+J+ K+L+M			**1790390.20**		
O	**Cost of Civil Works**	**O**			**134011.96**		
1	RMU Plinth with Brick, Mortar, 12 mm cement plaster as per drawing	Nos.	1	33040.00	33040.00	RC	6200006564
2	GI Fencing for RMU	Sqmtr	20	4602.00	92040.00	RC	6200006564
3	Earthing Pit for GI Pipe Earthing	Nos.	2	4465.98	8931.96	RC	6200006564
P	**Sub Total**	**P=N+O**			**1924402.16**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1924402.16**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		19244.02		
T	**Grand Total**	**T=R+S**			**1943646.18**		
				or say	**1943646.00**		
In Cr.					**0.1944**		

Annexure 102: Cost Analysis of 11 KV 3 Way RMU							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers/Breakers**	**B**			**741261.70**		
1	11 KV RMU (3 way,LLB, AUX PT & FRTU)	Nos.	1	741261.70	741261.70	RC	6200004548
C	**Cost of materials for line**	**C**			**248146.37**		
1	GI Flat 25x6mm	Kg	20.00	111.00	2220.00	CDB @ 48%	
2	11KV 3C 300Sq mm XLPE Cable	Mtr	60.00	1883.05	112983.05	RC	6200006717
3	11 KV O/D Jointing kit for 3C 300Sq mm XLPE Cable	No.	3	19565.60	58696.80	CDB @ 48%	
4	11 KV I/D Jointing kit for 3C 300Sq mm XLPE Cable	No.	3	13428.04	40284.12	CDB @ 48%	
5	40mm nominal bore GI Pipe earthing device	No.	2	1554.00	3108.00	CDB @ 48%	
6	GI Nuts Bolt & Washer	Kg.	10	115.44	1154.40	CDB @ 48%	
7	GI Pipe Riser (160mm)	Mtr	18	1650.00	29700.00	RC	6200006564
D	**SUBTOTAL**	**D=A+B+C**			**989408.07**		
E	Landing Cost on Materials	**E**	18%		178093.45		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		29682.24		
G	**Sub Total**	**G=D+F**			**1019090.31**		
H	T&P @ 2% of F	H	2%		20381.81		
I	Contingency @ 3% of F	I	3%		30572.71		
J	Transportation @ 7.5% of F + Applicable taxes	J	7.5%		76431.77		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		45046.47		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		30159.71		
N	Sub Total	**N**=E+G+H+I+J+ K+L+M			**1399776.24**		
O	**Cost of Civil Works**	**O**			**134011.96**		
1	RMU Plinth with Brick, Mortar, 12 mm cement plaster as per drawing	Nos.	1	33040.00	33040.00	RC	6200006564
2	GI Fencing for RMU	Sqmtr	20	4602.00	92040.00	RC	6200006564
3	Earthing Pit for GI Pipe Earthing	Nos.	2	4465.98	8931.96	RC	6200006564
P	**Sub Total**	**P=N+O**			**1533788.20**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1533788.20**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		15337.88		
T	**Grand Total**	**T=R+S**			**1549126.08**		
				or say	**1549126.00**		
In Cr.					**0.1549**		

Annexure 103: Cost Analysis of 33 KV Pin Insulator							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**710.40**		
1	33 KV Pin Insulator (Pin)	Nos.	1.00	710.4	710.40	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**710.40**		
E	Landing Cost on Materials	**E**	18%		127.87		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		21.31		
G	**Sub Total**	**G=D+F**			**731.71**		
H	T&P @ 2% of F	H	2%		14.63		
I	Contingency @ 3% of F	I	3%		21.95		
J	Transportation @ 7.5% of F	J	7.5%		54.88		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	M	10%		86.34		
N	Sub Total	**N**=E+G+H+I+ J+K+L+M			**1037.39**		
O	**Cost of Civil Works(Incl. tax)**	**O**			**0.00**		
P	**Sub Total**	**P=N+O**			**1037.39**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1037.39**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		10.37		
T	**Grand Total**	**T=R+S**			**1047.76**		
				or say	**1048.00**		
				In Cr	**0.000105**		

Annexure 104: Cost Analysis of 33 KV Disc Insulator							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**4617.60**		
1	33 KV Disc Insulator (B &S, 120 KN), Polymer Type	Nos.	1.00	2131.20	2131.20	CDB @ 48%	
2	Single tension HW fitting for 232 sq.mm conductor	Nos.	1.00	2486.40	2486.40	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**4617.60**		
E	Landing Cost on Materials	**E**	18%		831.17		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		138.53		
G	**Sub Total**	**G=D+F**			**4756.13**		
H	T&P @ 2% of F	H	2%		95.12		
I	Contingency @ 3% of F	I	3%		142.68		
J	Transportation @ 7.5% of F	J	7.5%		356.71		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	M	10%		561.22		
N	Sub Total	**N**=E+G+H+I+ J+K+L+M			**6743.04**		
O	**Cost of Civil Works(Incl. tax)**	**O**			**0.00**		
P	**Sub Total**	**P=N+O**			**6743.04**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**6743.04**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		67.43		
T	**Grand Total**	**T=R+S**			**6810.47**		
				or say	**6810.00**		
				In Cr	**0.000681**		

Annexure 105: Cost Analysis of 11 KV Pin Insulator							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**296.00**		
1	11 KV Pin Insulator (Polymer)	Nos.	1.00	296.00	296.00	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**296.00**		
E	Landing Cost on Materials	**E**	18%		53.28		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		8.88		
G	**Sub Total**	**G=D+F**			**304.88**		
H	T&P @ 2% of F	H	2%		6.10		
I	Contingency @ 3% of F	I	3%		9.15		
J	Transportation @ 7.5% of F	J	7.5%		22.87		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	M	10%		35.98		
N	Sub Total	**N**=E+G+H+I+J+K+L+M			**432.25**		
O	**Cost of Civil Works**	**O**			**9.77**		
1	Dismantalling of existing Pin Insulator	Nos.	1	9.77	9.77	RC	6200006564
P	**Sub Total**	**P=N+O**			**442.02**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**442.02**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		4.42		
T	**Grand Total**	**T=R+S**			**446.44**		
				or say	**446.00**		
				In Cr	**0.0000446**		

Annexure 106: Cost Analysis of 11 KV Disc Insulator							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**0.00**		
C	**Cost of materials for line**	**C**			**2220.00**		
1	Disc insulator (B&S)70 KN polymer	Nos.	1.00	1702.00	1702.00	CDB @ 48%	
2	H W fitting (B&S)70KN	Nos.	1.00	518.00	518.00	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**2220.00**		
E	Landing Cost on Materials	**E**	18%		399.60		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		66.60		
G	**Sub Total**	**G=D+F**			**2286.60**		
H	T&P @ 2% of F	H	2%		45.73		
I	Contingency @ 3% of F	I	3%		68.60		
J	Transportation @ 7.5% of F	J	7.5%		171.50		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	L	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ GST	M	10%		269.82		
N	Sub Total	**N**=E+G+H+I+J+K+L+M			**3241.84**		
O	**Cost of Civil Works**	**O**			**9.77**		
1	Dismantalling of existing Pin Insulator	Nos.	1	9.77	9.77	RC	6200006564
P	**Sub Total**	**P=N+O**			**3251.61**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**3251.61**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		32.52		
T	**Grand Total**	**T=R+S**			**3284.13**		
				or say	**3284.00**		
				In Cr	**0.0003284**		

Annexure 107: Cost Analysis of Installing 33 KV Auto Reclosure/Sectionaliser

Sl No	Description of materials	Unit	Qty	Rate (Rs.)	Amount (Rs.)	Remarks	Ref
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**168986.40**		
1	13 Mtr RSJ (GI) Pole	Nos.	4	42246.60	168986.40	CDB @ 48%	
C	**Cost of materials for line**	**C**			**1288091.76**		
1	33 KV Autoreclosure	Set	1	907485.20	907485.20	RC	6200004558
2	33 KV Isolator (800 A) without ES	Set	1	125134.00	125134.00	CDB @ 48%	
3	232 sqmm AAAC covered conductor	Km.	0.04	306060.00	12242.40	RC	6200004476
4	GI Channel 100x50x6 mm	Kg	134	111.00	14874.00	CDB @ 48%	
5	GI Channel 70x40x6 mm	Kg	300	111.00	33300.00	CDB @ 48%	
6	GI Angle 50x50x6 mm	Kg	90	111.00	9990.00	CDB @ 48%	
7	GI Flat 50x6 mm	Kg	32	111.00	3562.66	CDB @ 48%	
8	GI Flat 25x3 mm	Kg	113	111.00	12487.50	CDB @ 48%	
9	Fish Plate 50x6mm	Kg	8	111.00	888.00	CDB @ 48%	
10	Lightening Arrester 30 KV 10 KA, Polymer Type	Nos.	3	15318.00	45954.00	CDB @ 48%	
11	33 KV Disc Insulator (B & S), Polymer	No.	12	2131.20	25574.40	CDB @ 48%	
12	33 KV H/W Fitting (B & S type) for Disc Insulator	No.	12	2486.40	29836.80	CDB @ 48%	
13	Aluminium Socket 240 mm	Nos.	12	66.60	799.20	CDB @ 48%	
14	PG Clamp for 232 sqmm AAAC	No.	12	1702.00	20424.00	CDB @ 48%	
15	HT Comlpete Stay Set	Set	8	1554.00	12432.00	CDB @ 48%	
16	HT stay clamp GI (1.9Kg/pair)	Set	8	74.00	592.00	CDB @ 48%	
17	H.T. Stay Insulator (Type-C)	Nos.	8	185.00	1480.00	CDB @ 48%	
18	7/8 SWG GI Stay Wire	Kg	86	111.00	9546.00	CDB @ 48%	
19	GI Pipe for earthing (40 mm)	Set	6	1554.00	9324.00	CDB @ 48%	
20	GI Nuts Bolt & Washer	Kg.	30	115.44	3463.20	CDB @ 48%	
21	GI Barbered wire for anticlimbing	Kg.	4	118.40	473.60	CDB @ 48%	
22	Danger Plate	No.	4	118.40	473.60	CDB @ 48%	
23	Fabrication & Galvanisation	Kg	524	14.80	7755.20	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**1457078.16**		
E	Landing Cost on Materials	**E**	18%		262274.07		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		43712.34		
G	**Sub Total**	**G=D+F**			**1500790.50**		
H	T&P @ 2% of F	H	2%		30015.81		
I	Contingency @ 3% of F	I	3%		45023.72		
J	Transportation @ 7.5% of F	J	7.5%		112559.29		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		10269.30		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		156554.67		
N	Sub Total	**N**=E+G+H+I +J+K+L+M			**2117487.36**		
O	**Cost of Civil Works**	**O**			**57001.61**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	M3	1.80	7845.64	14122.16	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	M3	0.45	7845.64	3530.54	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	Nos.	1.60	7845.64	12553.03	RC	6200006564
4	Earthing pit for pipe earthing	No.	6	4465.98	26795.89	RC	6200006564
P	**Sub Total**	**P=N+O**			**2174488.97**		
Q	**Other Overheads (including supervision charges) @ 6% of P**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**2174488.97**		
S	**Labour Cess @ 1% of R**	**S**	**1%**		21744.89		
T	**Grand Total**	**T=R+S**			**2196233.86**		
				or say	**2196234.00**		
				In Cr	**0.219623**		

Annexure 108: Cost Analysis of Installing 11 KV Auto Reclosure/Sectionaliser							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**8880.00**		
1	9 Mtr PSC Pole		2	4440.00	8880.00	CDB @ 48%	
B	**Cost of RS Joist Poles /Transformers**	**B**			**84493.20**		
1	11 Mtr RSJ (GI) Pole	Nos.	2	42246.60	84493.20	CDB @ 48%	
C	**Cost of materials for line**	**C**			**857074.18**		
1	11 KV Autoreclosure	Set	1	689011.00	689011.00	RC	6200004558
2	11 KV AB Switch (400 A)	Set	1	17538.00	17538.00	CDB @ 48%	
2	100sqmm AAAC covered conductor	Km.	0.03	133200.00	3996.00	CDB @ 48%	
3	Top Channel 100x50x6 mm	Kg	107	111.00	11877.00	CDB @ 48%	
4	Bracing Channel 70x40x6 mm	Kg	240	111.00	26640.00	CDB @ 48%	
5	Bracing Angle 50x50x6 mm	Kg	72	111.00	7992.00	CDB @ 48%	
6	GI Flat 50x6 mm	Kg	32	111.00	3562.66	CDB @ 48%	
7	GI Flat 25x3 mm	Kg	60	111.00	6660.00	CDB @ 48%	
8	Fish Plate 50x6mm	Kg	8	111.00	888.00	CDB @ 48%	
9	Lightning Arrester(12KV,10KA) Station Class	Nos.	3	5254.00	15762.00	CDB @ 48%	
10	11 KV Disc Insulator (B & S), Polymer	No.	12	1702.00	20424.00	CDB @ 48%	
11	11 KV H/W Fitting (B & S type) for Disc Insulator	No.	12	518.00	6216.00	CDB @ 48%	
12	Aluminium Socket 120 mm	Nos.	12	32.56	390.72	CDB @ 48%	
13	PG Clamp for 100 sqmm AAAC	No.	12	858.40	10300.80	CDB @ 48%	
14	HT Comlpete Stay Set	Set	8	1554.00	12432.00	CDB @ 48%	
15	HT stay clamp GI (1.9Kg/pair)	Set	8	74.00	592.00	CDB @ 48%	
16	H.T. Stay Insulator (Type-C)	Nos.	8	185.00	1480.00	CDB @ 48%	
17	7/10 SWG GI Stay Wire	Kg	56	111.00	6216.00	CDB @ 48%	
18	GI Pipe for earthing (40 mm)	Set	4	1554.00	6216.00	CDB @ 48%	
20	GI Nuts Bolt & Washer	Kg.	15	115.44	1731.60	CDB @ 48%	
21	GI Barbered wire for anticlimbing	Kg.	4	118.40	473.60	CDB @ 48%	
22	Danger Plate	No.	4	118.40	473.60	CDB @ 48%	
23	Fabrication & Galvanisation	Kg	419	14.80	6201.20	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**950447.38**		
E	Landing Cost on Materials	**E**	18%		171080.53		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		28513.42		
G	**Sub Total**	**G=D+F**			**978960.80**		
H	T&P @ 2% of F	H	2%		19579.22		
I	Contingency @ 3% of F	I	3%		29368.82		
J	Transportation @ 7.5% of F	J	7.5%		73422.06		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		2158.55		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		5134.65		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		104168.80		
N	Sub Total	**N**=E+G+H+I +J+K+L+M			**1383873.42**		
O	**Cost of Civil Works**	**O**			**48069.65**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	M3	1.80	7845.64	14122.16	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	M3	0.45	7845.64	3530.54	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	Nos.	1.60	7845.64	12553.03	RC	6200006564
4	Earthing pit for pipe earthing	No.	4	4465.98	17863.93	RC	6200006564
P	**Sub Total**	**P=N+O**			**1431943.07**		
Q	**Other Overheads (including supervision charges) @ 6% of P**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1431943.07**		
S	**Labour Cess @ 1% of R**	**S**	**1%**		14319.43		
T	**Grand Total**	**T=R+S**			**1446262.50**		
				or say	**1446263.00**		
In Cr.					**0.1446**		

Annexure 109: Cost Analysis of Installing Mobile DTR (500 KVA)

Sl No	Description of materials	Unit	Qty	Rate (Rs.)	Amount (Rs.)	Remarks	Ref
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**1998587.20**		
1	MOBILE SUB ST.TROLLEY MOU 500KVA, 11/0.433kV	Nos.	1	1998587.20	1998587.20	RC	4200002727
C	**Cost of materials for line**	**C**					
D	**SUBTOTAL**	**D=A+B+C**			**1998587.20**		
E	Landing Cost on Materials	**E**	18%		359745.70		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		59957.62		
G	**Sub Total**	**G=D+F**			**2058544.82**		
H	T&P @ 2% of F	H	2%		41170.90		
I	Contingency @ 3% of F	I	3%		61756.34		
J	Transportation @ 7.5% of F	J	7.5%		154390.86		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		121454.14		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		0.00		
N	Sub Total	**N**=E+G+H+I+J+K+L+M			**2797062.76**		
O	**Cost of Civil Works**	**O**			**0.00**		
P	**Sub Total**	**P=N+O**			**2797062.76**		
Q	**Other Overheads (including supervision charges) @ 6% of P**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**2797062.76**		
S	**Labour Cess @ 1% of R**	**S**	**1%**		27970.63		
T	**Grand Total**	**T=R+S**			**2825033.39**		
				or say	**2825033.00**		
In Cr.					**0.2825**		

Annexure 110: Cost Analysis of LI Point Regularisation - Installation of Cables, Distribution Box, etc. for LI connections							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**88800.00**		
1	8 Mtr PSC Pole	Nos.	30	2960.00	88800.00	CDB @ 48%	
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**240170.59**		
1	Pole Clamp for AB Cable	Pair	30	296.00	8880.00	CDB @ 48%	
2	Dead end Clamp (For ABC)	Nos.	7	96.20	673.40	CDB @ 48%	
3	Suspension Clamp	Nos.	23	503.20	11573.60	CDB @ 48%	
4	Eye Hook for AB Cable	Nos.	30	88.80	2664.00	CDB @ 48%	
5	Piercing Connector	Nos.	12	118.40	1420.80	CDB @ 48%	
6	Neutral Connector Type B	Nos.	4	48.84	195.36	CDB @ 48%	
7	Earthing Coil	Nos.	30	245.68	7370.40	CDB @ 48%	
8	No.8 G.I.wire for earthing	Kg.	36	111.00	3996.00	CDB @ 48%	
9	G.I. Nut & Bolts(Assorted size)	Kg.	30	115.44	3463.20	CDB @ 48%	
10	Service Connection Distribution box (8 way)	Nos.	4	5920.00	23680.00	CDB @ 48%	
11	4C X 25sqmm LT XLPE Cable	Mtr.	16	165.51	2648.16	RC	6200004328
12	LT Stay Set	Nos.	7	769.60	5387.20	CDB @ 48%	
13	7/12SWG Stay wire	Kg.	19.215	111.00	2132.87	CDB @ 48%	
14	LT Stay Clamp (1.40 Kg./Pair)	Pair	7	162.80	1139.60	CDB @ 48%	
15	LT Stay Insulator	Nos.	7	44.40	310.80	CDB @ 48%	
16	3X35 + 1X25mm2 LT XLPE Aerial bunched cable	CKm	1.03	159840.00	164635.20	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**328970.59**		
E	Landing Cost on Materials	**E**	18%		59214.71		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		9869.12		
G	**Sub Total (F)**	**G=D+F**			**338839.70**		
H	T&P @ 2% of F	**H**	2%		6776.79		
I	Contingency @ 3% of F	**I**	3%		10165.19		
J	Transportation @ 7.5% of F	**J**	7.5%		25412.98		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		21585.50		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		29190.33		
N	Sub Total (M)	N=E+G+H+I+ J+K+L+M			**491185.21**		
O	**Cost of Civil Works**	**O**			**109250.58**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1250mm) = 0.3125 Cu.mtr(Per Pole)	No.	9	7845.64	73552.90	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	3.15	7845.64	24713.78	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	1.40	7845.64	10983.90	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**600435.79**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**600435.79**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		6004.36		
T	**Grand Total**	**T=R+S**			**606440.14**		
	or say				**606440.00**		
				In Cr.	**0.0606000**		

Annexure 111: Cost Analysis of 33 KV New lines along with associated switching items and other accessories							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0**		
B	**Cost of RS Joist Poles**	**B**			**1098411.60**		
1	13 Mtr RS Joist Pole (GI)	Nos	22	49927.80	1098411.60	CDB @ 48%	
C	**Cost of materials for line**	**C**			**1016838.44**		
1	232 sqmm AAA Conductor	Km	3.15	231620.00	729603.00	CDB @ 48%	
2	GI Channel 100x50x6mm	Kg	107.00	111.00	11877.00	CDB @ 48%	
3	GI Channel 75x40x6mm	Kg	160.00	111.00	17760.00	CDB @ 48%	
4	GI Angle 50x50x6mm	Kg	72.00	111.00	7992.00	CDB @ 48%	
5	Fish Plate 50x6mm	Kg	8.00	111.00	888.00	CDB @ 48%	
6	GI Flat 50x6mm	Kg	24.00	111.00	2664.00	CDB @ 48%	
7	GI Flat 25x6mm	Kg	38.00	111.00	4218.00	CDB @ 48%	
8	33 KV V- Cross Arm (GI)	No	18	2664.00	47952.00	CDB @ 48%	
9	Back Clamp for 'V' Cross Arm	No	18	222.00	3996.00	CDB @ 48%	
10	33 KV F Clamp	No	18	444.00	7992.00	CDB @ 48%	
11	33KV Disc Insulator (B & S), Polymer	No	12	2131.20	25574.40	CDB @ 48%	
12	33KV H/W Fitting (B & S type) for Disc Insulator	No	12	2486.40	29836.80	CDB @ 48%	
13	PG Clamp for 232Sqmm AAAC	No	12	1702.00	20424.00	CDB @ 48%	
14	33KV Pin Insulator, Polymer	No	60	710.40	42624.00	CDB @ 48%	
15	HT Stay set complete	No	11	1554.00	17094.00	CDB @ 48%	
16	HT Stay Insulator	No	11	74.00	814.00	CDB @ 48%	
17	HT Stay Clamp	Pair	11	185.00	2035.00	CDB @ 48%	
18	7/8 SWG GI wire for stay	Kg	118.00	111.00	13098.00	CDB @ 48%	
19	No. 8 SWG GI wire for earthing	Kg	28	111.00	3108.00	CDB @ 48%	
20	Earthing of support (Coil Type)	No	18	245.68	4422.24	CDB @ 48%	
21	40mm nominal bore GI Pipe earthing device	No	2	1554.00	3108.00	CDB @ 48%	
22	GI Nuts Bolt & Washer	Kg	60	115.44	6926.40	CDB @ 48%	
23	GI Barbered wire for anticlimbing	Kg	44	118.40	5209.60	CDB @ 48%	
24	Danger Plate	No	22	118.40	2604.80	CDB @ 48%	
25	Fabrication & Galvanisation	Kg	339.00	14.80	5017.20	CDB @ 48%	
D	**SUBTOTAL(D)**	**D=A+B+C**			**2115250.04**		
E	Landing Cost on Materials	E	18%		380745.01		
F	Stock, Storage & Insurance @ 3% of D=E	F	3%		63457.50		
G	**Sub Total (F)**	**G= D+F**			**2178707.54**		
H	T&P @ 2% of F	H	2%		43574.15		
I	Contingency @ 3% of F	I	3%		65361.23		
J	Transportation @ 7.5% of F	J	7.5%		163403.07		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))	L	5%		66750.47		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))	L	10%		123586.54		
N	Sub Total (M)	**N=E+G+H+I+J +K+L**			**3022128.01**		
O	**Cost of Civil Works(Incl. tax)**	**O**			**123282.21**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	M3	9.90	7845.64	77671.87	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	M3	2.48	7845.64	19417.97	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	2.20	7845.64	17260.41	RC	6200006564
4	Earthing pit for pipe earthing	No.	2	4465.98	8931.96	RC	6200006564
P	**Sub Total (O)**	**O=M+N**			**3145410.22**		
Q	**Other Overheads (including supervision charges) @ 6% of (O)=Q**	**Q**	**0%**		0.00		
R	**Sub Total (S)**	**S=O+P+Q+R**			**3145410.22**		
S	**Labour Cess @ 1% of S=T**	**T**	**1%**		31454.10		
T	**Grand Total (U)= S+T**	**U=S+T**			**3176864.32**		
				or say	**3176864.00**		
				In Cr	**0.317686**		

Annexure 112: Cost Analysis of 11 KV New lines along with associated switching items and other accessories							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**929425.20**		
1	11mtr RSJ (GI) Pole	Nos.	22	42246.60	929425.20	CDB @ 48%	
C	**Cost of materials for line**	**C**			**453506.04**		
1	100 sqmm AAA Conductor	Km.	3.15	81400.00	256410.00	CDB @ 48%	
2	GI Channel 100x50x6mm	Kg	107	111.00	11877.00	CDB @ 48%	
3	GI Channel 75x40x6mm	Kg	160	111.00	17760.00	CDB @ 48%	
4	GI Angle 50x50x6mm	Kg	72	111.00	7992.00	CDB @ 48%	
5	Fish Plate 50x6mm	Kg	8	111.00	888.00	CDB @ 48%	
6	GI Flat 50x6mm	Kg	36	111.00	3996.00	CDB @ 48%	
7	GI Flat 25x6mm	Kg	30	111.00	3330.00	CDB @ 48%	
8	11 KV V- Cross Arm (10.2 Kg each)	No.	18	1198.80	21578.40	CDB @ 48%	
9	11 KV F Clamp 2.9 Kg. each	No.	18	355.20	6393.60	CDB @ 48%	
10	11KV Disc Insulator (B & S), Polymer	No.	12	1702.00	20424.00	CDB @ 48%	
11	11KV H/W Fitting (B & S type) for Disc Insulator	No.	12	740.00	8880.00	CDB @ 48%	
12	PG Clamp for 100 sqmm AAAC	No.	12	858.40	10300.80	CDB @ 48%	
13	11KV Pin Insulator, Polymer	No.	60	296.00	17760.00	CDB @ 48%	
14	HT Stay set complete	No.	12	1554.00	18648.00	CDB @ 48%	
15	HT Stay Insulator	No.	12	74.00	888.00	CDB @ 48%	
16	HT Stay Clamp	Pair	12	185.00	2220.00	CDB @ 48%	
17	7/8 SWG GI wire for stay	Kg.	129	111.00	14319.00	CDB @ 48%	
18	No-8 GI wire (for earthing)	Kg.	23	111.00	2553.00	CDB @ 48%	
19	Earthing of support (Coil Type)	No.	18	245.68	4422.24	CDB @ 48%	
20	40mm nominal bore GI Pipe earthing device	No.	2	1554.00	3108.00	CDB @ 48%	
21	GI Nuts Bolt & Washer	Kg.	60	115.44	6926.40	CDB @ 48%	
22	GI Barbered wire for anticlimbing	Kg.	44	118.40	5209.60	CDB @ 48%	
23	Danger Plate	No.	22	118.40	2604.80	CDB @ 48%	
24	Fabrication & Galvanisation	Kg.	339.00	14.80	5017.20	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**1382931.24**		
E	Landing Cost	**E**	18%		248927.62		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		41487.94		
G	**Sub Total**	**G=D+F**			**1424419.18**		
H	T&P @ 2% of F	H	2%		28488.38		
I	Contingency @ 3% of F	I	3%		42732.58		
J	Transportation @ 7.5% of F	J	7.5%		106831.44		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		56481.17		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		55119.12		
N	Sub Total	**N=E+G+H+I +J+K+L+M**			**1962999.49**		
O	**Cost of Civil Works**	**O**			**124851.34**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	10	7845.64	77671.87	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	2.475	7845.64	19417.97	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	2.40	7845.64	18829.54	RC	6200006564
4	Earthing pit for pipe earthing	No	2	4465.98	8931.96	RC	6200006564
P	**Sub Total**	**P=N+O**			**2087850.83**		
Q	**Other Overheads (including supervision charges) @ 6% of P**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**2087850.83**		
S	**Labour Cess @ 1% of R**	**S**	**1%**		20878.51		
T	**Grand Total**	**T=R+S**			**2108729.34**		
				or say	**2108729.00**		
				In Cr	**0.2108729**		

Annexure 113 A: Cost Analysis of New PSS (2x5 MVA)		
Sl no	**Description**	**Cost**
1	Bay VCB OD	11306500.58
2	Station Trf	1211025.516
3	2x5 MVA PTR	19982606.71
4	11 KV OG	1718967.484
5	PSS (Control Room Inside)	28425112.74
6	Civil & Scada	32755302
Total		**9.54**

Annexure 113 B: Cost Analysis of New PSS (2x3.15 MVA)		
Sl no	**Description**	**Cost**
1	Bay VCB OD	11306500.58
2	Station Trf	1211025.516
3	2x3.15 MVA PTR	16615310.71
4	11 KV OG	1718967.484
5	PSS (Control Room Inside)	28425112.74
6	Civil & Scada	32755302
Total		**9.20**

Annexure 114: Cost Analysis of Additional 8 MVA, 33/11 KV PTR							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**9200000.00**		
1	8 MVA, 33/11 KV Trf.	Nos.	1	9200000.00	9200000.00	RC	6200004426
C	**Cost of materials for line**				**891801.25**		
1	8 Mtr RSJ (GI) pole	Nos.	4.0	20424.00	81696.00	CDB @ 48%	
2	GI Channel 100 X 50 X 6 mm	Kg.	110.40	111.00	12254.40	CDB @ 48%	
3	GI Channel 75 X 40 X 6 mm	Kg.	81.6	111.00	9057.60	CDB @ 48%	
4	GI Channel 50 X 6 mm	Kg.	54.00	111.00	5994.00	CDB @ 48%	
5	Fish Plate	Kg.	8.00	111.00	888.00	CDB @ 48%	
6	Lightening Arrester(30KV, 10A)	Nos.	3	15318.00	45954.00	CDB @ 48%	
7	Lightening Arrester(12 KV, 10A)	Nos.	3	5254.00	15762.00	CDB @ 48%	
8	33 KV 3C, 400 sqmm XLPE Cable	Mtr	100	3165.25	316525.42	RC	6200006717
9	O/D Termination Kit for 33 KV 3C, 400 sqmm XLPE Cable	Nos.	4	49217.4	196869.60	CDB @ 48%	
10	11 KV 1C, 630 sqmm XLPE Cable	Mtr	200	1037.29	207457.63	RC	6200006717
11	O/D Jointing Kit for 11 KV 1C, 630 sqmm XLPE Cable	Nos.	8	7390.00	59120.00	RC	6200005565
12	Cable Riser (HDPE 200 mm)	Mtr	12	1650.00	19800.00	RC	6200006564
13	Cable Riser (HDPE 110 mm)	Mtr	24	770.00	18480.00	RC	6200006564
14	G.I. Pipe Earthing 3mtr. Long (OD/ID-50mm/40mm)	No.	4	1554.00	6216.00	CDB @ 48%	
15	GI Flat 50x6mm	Kg.	35	111.00	3885.00	CDB @ 48%	
16	G.I. Nuts, bolt & Washer	Kg.	15	115.44	1731.60	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**10091801.25**		
E	Landing Cost on Materials	**E**	18%		1816524.23		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		302754.04		
G	**Sub Total (F)**	**G=D+F**			**10394555.29**		
H	T&P @ 2% of F	**H**	2%		207891.11		
I	Contingency @ 3% of F	**I**	3%		311836.66		
J	Transportation @ 7.5% of F	**J**	7.5%		779591.65		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		559084.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		108389.52		
N	Sub Total (M)	**N**=E+G+H+I +J+K+L+M			**14177872.45**		
O	**Cost of Civil Works**	**O**			**1077369.09**		
1	Earthing pit for pipe earthing	No.	4	4733.94	18935.76	RC	6200006564
2	Extension of Cable Trench	Rmt	20	9207.16	184143.25	RC	6200006564
3	PTR Plinth	Nos.	1	874290.08	874290.08	RC	TPWODL CIVIL
P	**Sub Total (O)**	**P=N+O**			**15255241.54**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**15255241.54**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		152552.42		
T	**Grand Total**	**T=R+S**			**15407793.95**		
or say					**15407794.00**		
In Cr.					**1.54**		
33 KV O/D Bay, VCB, CT, PT & CR Panel (I/D)					0.31		
11 KV O/D Bay, VCB, CT, PT & CR Panel (I/D)					0.21		
Civil Work for Land Filling					0.50		
In Cr.					**2.56**		

Annexure 115: Cost Analysis of Augmentation of 33/11 KV PTR from 5 MVA to 8 MVA							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**9200000.00**		
1	8 MVA, 33/11 KV Trf.	Nos.	1	9200000.00	9200000.00	RC	6200004426
C	**Cost of materials for line**				**622049.03**		
1	Lightening Arrester(30KV, 10A)	Nos.	3	15318.00	45954.00	CDB @ 48%	
2	Lightning Arrester(12KV,10KA) Station Class	Nos.	3	5254.00	15762.00	CDB @ 48%	
3	11 KV 1C, 630 sqmm XLPE Cable	Mtr	200	1037.29	207457.63	RC	6200006717
4	O/D Jointing Kit for 11 KV 1C, 630 sqmm XLPE Cable	Nos.	8	7390.00	59120.00	RC	6200005565
5	G.I. Pipe Earthing 3mtr. Long (OD/ID-50mm/40mm)	No.	4	1554.00	6216.00	CDB @ 48%	
6	GI Flat 50x6mm	Kg.	35	111.00	3885.00	CDB @ 48%	
7	G.I. Nuts, bolt & Washer	Kg.	10	115.44	1154.40	CDB @ 48%	
8	Transformer Monitoring Unit	Nos.	1	282500.00	282500.00	RC	RC TPCODL
D	**SUBTOTAL**	**D=A+B+C**			**9822049.03**		
E	Landing Cost on Materials	**E**	18%		1767968.82		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		294661.47		
G	**Sub Total (F)**	**G=D+F**			**10116710.50**		
H	T&P @ 2% of F	**H**	2%		202334.21		
I	Contingency @ 3% of F	**I**	3%		303501.31		
J	Transportation @ 7.5% of F	**J**	7.5%		758753.29		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		559084.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		75603.84		
N	Sub Total (M)	**N**=E+G+H+I +J+K+L+M			**13783955.97**		
O	**Cost of Civil Works**	**O**			**513082.49**		
1	Earthing pit for pipe earthing	No.	4	4465.98	17863.93	RC	6200006564
2	Dismantling of Existing Trf	No.	1	61075.31	61075.31	RC	6200006564
3	Extension of Cable Trench	Rmt	20	9207.16	184143.25	RC	6200006564
4	Extension of Plinth	Nos.	1	250000.00	250000.00	LS	TPWODL CIVIL
P	**Sub Total (O)**	**P=N+O**			**14297038.46**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**14297038.46**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		142970.38		
T	**Grand Total**	**T=R+S**			**14440008.85**		
or say					**14440009.00**		
In Cr.					**1.4440**		

Annexure 116 Cost Analysis of Augmentation of 33/11 KV PTR from 8 MVA to 12.5 MVA							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**15260700.00**		
1	12.5 MVA, 33/11 KV Trf. (NIFPS)	Nos.	1	15260700.00	15260700.00	RC	6200004363
C	**Cost of materials for line**				**888626.65**		
1	Lightening Arrester(30KV, 10A)	Nos.	3	15318.00	45954.00	CDB @ 48%	
2	Lightning Arrester(12KV,10KA) Station Class	Nos.	3	5254.00	15762.00	CDB @ 48%	
3	11 KV 1C, 630 sqmm XLPE Cable	Mtr	400	1037.29	414915.25	RC	6200006717
4	O/D Jointing Kit for 11 KV 1C, 630 sqmm XLPE Cable	Nos.	16	7390.00	118240.00	RC	6200005565
5	G.I. Pipe Earthing 3mtr. Long (OD/ID-50mm/40mm)	No.	4	1554.00	6216.00	CDB @ 48%	
6	GI Flat 50x6mm	Kg.	35	111.00	3885.00	CDB @ 48%	
7	G.I. Nuts, bolt & Washer	Kg.	10	115.44	1154.40	CDB @ 48%	
8	Transformer Monitoring Unit	Nos.	1	282500.00	282500.00	RC	RC TPCODL
D	**SUBTOTAL**	**D=A+B+C**			**16149326.65**		
E	Landing Cost on Materials	**E**	18%		2906878.80		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		484479.80		
G	**Sub Total (F)**	**G=D+F**			**16633806.45**		
H	T&P @ 2% of F	**H**	2%		332676.13		
I	Contingency @ 3% of F	**I**	3%		499014.19		
J	Transportation @ 7.5% of F	**J**	7.5%		1247535.48		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		927392.74		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		108003.68		
N	Sub Total (M)	N=E+G+H+I+J +K+L+M			**22655307.48**		
O	**Cost of Civil Works**	**O**			**687939.87**		
1	Earthing pit for pipe earthing	No.	4	4465.98	17863.93	RC	6200006564
2	Dismantling of Existing Trf	No.	1	61075.31	61075.31	RC	6200006564
3	Civil Cost for NIFPS	No.	1	174857.38	174857.38	RC	6200006564
4	Extension of Cable Trench	Rmt	20	9207.16	184143.25	RC	6200006564
5	Extension of Plinth	Nos.	1	250000.00	250000.00	LS	TPWODL CIVIL
P	**Sub Total (O)**	**P=N+O**			**23343247.35**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**23343247.35**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		233432.47		
T	**Grand Total**	**T=R+S**			**23576679.82**		
	or say				**23576680.00**		
	In Cr.				**2.3577**		

Annexure 117 Cost Analysis of Chain Augmentation of 8 MVA PTR							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**23909.40**		
1	Lightening Arrester(12KV, 10A)	Nos.	3	5254.00	15762.00	CDB @ 48%	
2	G.I. Pipe Earthing 3mtr. Long (OD/ID-50mm/40mm)	No.	2	1554.00	3108.00	CDB @ 48%	
3	GI Flat 50x6mm	Kg.	35	111.00	3885.00	CDB @ 48%	
4	G.I. Nuts, bolt & Washer	Kg.	10	115.44	1154.40	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**23909.40**		
E	Landing Cost on Materials	**E**	18%		4303.69		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		717.28		
G	**Sub Total (F)**	**G=D+F**			**24626.68**		
H	T&P @ 2% of F	**H**	2%		492.53		
I	Contingency @ 3% of F	**I**	3%		738.80		
J	Transportation @ 7.5% of F	**J**	7.5%		1847.00		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		2905.95		
N	Sub Total (M)	**N**=E+G+H+I+J +K+L+M			**34914.66**		
O	**Cost of Civil Works**	**O**			**772981.96**		
1	Earthing pit for pipe earthing	No.	2	4465.98	8931.96	RC	6200006564
2	Dismantling of 5 MVA Trf	No.	1	88500.00	88500.00	RC	6200006564
3	Installation ,testing & commissioning including dragging from unloading point to foundation(50 meters) ,of 8 MVA, 3 Ph, Transformer with OLTC, Including termination & transportation services	No.	1	380550.00	380550.00	RC	6200006564
4	Extension of Plinth	No.	1	295000.00	295000.00	RC	TPWODL CIVIL
P	**Sub Total (O)**	**P=N+O**			**807896.62**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**807896.62**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		8078.97		
T	**Grand Total**	**T=R+S**			**815975.59**		
or say					**815976.00**		
In Cr.					**0.0816**		

Sl No	Description of materials	Unit	Qty	Rate (Rs.)	Amount (Rs.)	Remarks	Ref
	Annexure 118: Cost Analysis of Chain Augmentation of 5 MVA PTR						
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**23909.40**		
1	Lightening Arrester(12KV, 10A)	Nos.	3	5254.00	15762.00	CDB @ 48%	
2	G.I. Pipe Earthing 3mtr. Long (OD/ID-50mm/40mm)	No.	2	1554.00	3108.00	CDB @ 48%	
3	GI Flat 50x6mm	Kg.	35	111.00	3885.00	CDB @ 48%	
4	G.I. Nuts, bolt & Washer	Kg.	10	115.44	1154.40	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**23909.40**		
E	Landing Cost on Materials	**E**	18%		4303.69		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		717.28		
G	**Sub Total (F)**	**G=D+F**			**24626.68**		
H	T&P @ 2% of F	**H**	2%		492.53		
I	Contingency @ 3% of F	**I**	3%		738.80		
J	Transportation @ 7.5% of F	**J**	7.5%		1847.00		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		2905.95		
N	Sub Total (M)	N=E+G+H+I+J +K+L+M			**34914.66**		
O	**Cost of Civil Works**	**O**			**544651.96**		
1	Earthing pit for pipe earthing	No.	2	4465.98	8931.96	RC	6200006564
2	Dismantling of 3.15 MVA Trf	No.	1	88500.00	88500.00	RC	6200006564
3	Installation ,testing & commissioning including dragging from unloading point to foundation(50 meters) ,of 8 MVA, 3 Ph, Transformer with OLTC, Including termination & transportation services	No.	1	152220.00	152220.00	RC	6200006564
4	Extension of Plinth	No.	1	295000.00	295000.00	RC	TPWODL CIVIL
P	**Sub Total (O)**	**P=N+O**			**579566.62**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**579566.62**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		5795.67		
T	**Grand Total**	**T=R+S**			**585362.29**		
	or say				**585362.00**		
	In Cr.				**0.0585**		

Additional 100 KVA DSS, 11 KV Line & LT Line						
1	100 KVA, 11/0.4 KV DSS (New)	Nos	1	792521.00	792521.00	
2	11 KV Line	Km	0.3	2099561.00	629868.30	
3	LT Line	Km	0.3	1238580.00	371574.00	
	Total				**1793963.30**	
				or say	**0.17940**	

Annexure 119: Cost Analysis of Additional 100 KVA DSS							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**278394.65**		
1	100 KVA, 11/0.4 KV Trf	No.	1	193901.45	193901.45	RC	6200004805
2	11 Mtr RS Joist (GI) Pole	No.	2	42246.60	84493.20	CDB @ 48%	
C	**Cost of materials for line**				**184018.83**		
1	GI Channel 100X50X6mm	Kg.	53.54	111.00	5942.50	CDB @ 48%	
2	GI Channel 75X40X6mm	Kg.	184.21	111.00	20447.53	CDB @ 48%	
3	GI Flat 50 x 6 mm	Kg.	32.10	111.00	3562.66	CDB @ 48%	
4	GI Flat 25 x 6 mm	Kg.	93.75	111.00	10406.25	CDB @ 48%	
5	11KV Disc Insulator (B & S) polymer	No.	3	1702.00	5106.00	CDB @ 48%	
6	11KV H/W Fitting (B & S Type)	No.	3	518.00	1554.00	CDB @ 48%	
7	PG Clamp for 100 sqmm conductor	No.	3	858.40	2575.20	CDB @ 48%	
8	11KV A/B Switch 3 pole.	Set	1	17538.00	17538.00	CDB @ 48%	
9	11KV H/G Fuse 3pole	Set	1	17064.40	17064.40	CDB @ 48%	
10	11KV Lightning Arrestor	No.	3	5254.00	15762.00	CDB @ 48%	
11	HT Stay set complete	No.	2	1554.00	3108.00	CDB @ 48%	
12	HT Stay Insulator	No.	2	74.00	148.00	CDB @ 48%	
13	HT Stay Clamp	Pair	2	185.00	370.00	CDB @ 48%	
14	7/10 SWG Staywire	Kg.	5.628	111.00	624.71	CDB @ 48%	
15	GI Pipe Earthing, 40mm. Dia	No.	5	1554.00	7770.00	CDB @ 48%	
16	GI Bolts, Nuts & Washers	Kg.	20	115.44	2308.80	CDB @ 48%	
17	Danger Board	No.	2	118.40	236.80	CDB @ 48%	
18	Fabrication and others	Kg.	237.748	14.80	3518.67	CDB @ 48%	
19	LT Distribution Box with MCCB, Aluminium Busbar for 2 Bay with kit kat fuse for 100 KVA S/S	No.	1	36140.12	36140.12	CDB @ 48%	
20	1.1 KV 4C 150 sqmm XLPE Cable (Armoured)	Mtr	20	849.58	16991.60	RC	6200004871
21	Aluminium Socket 150 sqmm	No.	12	44.40	532.80	CDB @ 48%	
22	11KV 1 core 100 mm2 XLPE insulated AAA conductor (Unarmoured) for Jumpering	Km	0.015	133200.00	1998.00	CDB @ 48%	
23	3P4W LTCT Smart Meter	Nos	1.00	6550.00	6550.00	RC	4200000326
24	LT CT Ring Type	Nos	4.00	530.00	2120.00	RC	5000020422
25	12 C 2.5 sqmm Armoured Control Cable	Mtr	5.00	328.56	1642.80	RC	6200006837
D	**SUBTOTAL**	**D=A+B+C**			**462413.48**		
E	Landing Cost on Material	**E**	18%		83234.43		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		13872.40		
G	**Sub Total (F)**	**G=D+F**			**476285.88**		
H	T&P @ 2% of F	**H**	2%		9525.72		
I	Contingency @ 3% of F	**I**	3%		14288.58		
J	Transportation @ 7.5% of F	**J**	7.5%		35721.44		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		16918.04		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		22365.65		
N	Sub Total (M)	**N=E+G+H+I+J +K+L+M**			**658339.74**		
O	**Cost of Civil Works**	**O**			**126334.51**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	1	7845.64	7061.08	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	0.225	7845.64	1765.27	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	0.40	7845.64	3138.26	RC	6200006564
4	Earthing pit for pipe earthing	No	5	4465.98	22329.91	RC	6200006564
5	Boundrywall fencing MS gate for S/S	Rmt	20	4602.00	92040.00	RC	TPWODL CIVIL
P	**Sub Total (O)**	**P=N+O**			**784674.25**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**784674.25**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		7846.74		
T	**Grand Total**	**T=R+S**			**792520.99**		
	or say				**792521.00**		

Cost Analysis of 11 KV new line (Bare) with DP with 100sqmm AAAC using 11mtr RS Joist							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**929425.20**		
1	11mtr RSJ (GI) Pole	Nos.	22	42246.60	929425.20	CDB @ 48%	
C	**Cost of materials for line**	**C**			**447290.04**		
1	100 sqmm AAA Conductor	Km.	3.15	81400.00	256410.00	CDB @ 48%	
2	GI Channel 100x50x6mm	Kg	107	111.00	11877.00	CDB @ 48%	
3	GI Channel 75x40x6mm	Kg	160	111.00	17760.00	CDB @ 48%	
4	GI Angle 50x50x6mm	Kg	72	111.00	7992.00	CDB @ 48%	
5	Fish Plate 50x6mm	Kg	8	111.00	888.00	CDB @ 48%	
6	GI Flat 50x6mm	Kg	24	111.00	2664.00	CDB @ 48%	
7	GI Flat 25x6mm	Kg	30	111.00	3330.00	CDB @ 48%	
8	11 KV V- Cross Arm (10.2 Kg each)	No.	18	1198.80	21578.40	CDB @ 48%	
9	11 KV F Clamp 2.9 Kg. each	No.	18	355.20	6393.60	CDB @ 48%	
10	11KV Disc Insulator (B & S), Polymer	No.	12	1702.00	20424.00	CDB @ 48%	
11	11KV H/W Fitting (B & S type) for Disc Insulator	No.	12	740.00	8880.00	CDB @ 48%	
12	PG Clamp for 100 sqmm AAAC	No.	12	858.40	10300.80	CDB @ 48%	
13	11KV Pin Insulator, Polymer	No.	60	296.00	17760.00	CDB @ 48%	
14	HT Stay set complete	No.	12	1554.00	18648.00	CDB @ 48%	
15	HT Stay Insulator	No.	12	74.00	888.00	CDB @ 48%	
16	HT Stay Clamp	Pair	12	185.00	2220.00	CDB @ 48%	
17	7/10 SWG GI wire for stay	Kg.	84	111.00	9324.00	CDB @ 48%	
18	No-8 GI wire (for earthing)	Kg.	24	111.00	2664.00	CDB @ 48%	
19	Earthing of support (Coil Type)	No.	18	245.68	4422.24	CDB @ 48%	
20	40mm nominal bore GI Pipe earthing device	No.	2	1554.00	3108.00	CDB @ 48%	
21	GI Nuts Bolt & Washer	Kg.	60	115.44	6926.40	CDB @ 48%	
22	GI Barbered wire for anticlimbing	Kg.	44	118.40	5209.60	CDB @ 48%	
23	Danger Plate	No.	22	118.40	2604.80	CDB @ 48%	
24	Fabrication & Galvanisation	Kg.	339.00	14.80	5017.20	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**1376715.24**		
E	Landing Cost	**E**	18%		247808.74		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		41301.46		
G	**Sub Total**	**G=D+F**			**1418016.70**		
H	T&P @ 2% of F	H	2%		28360.33		
I	Contingency @ 3% of F	I	3%		42540.50		
J	Transportation @ 7.5% of F	J	7.5%		106351.25		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		56481.17		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		54363.63		
N	Sub Total	N=E+G+H+I+J +K+L+M			**1953922.33**		
O	**Cost of Civil Works**	**O**			**124851.34**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	10	7845.64	77671.87	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	2.475	7845.64	19417.97	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	2.40	7845.64	18829.54	RC	6200006564
4	Earthing pit for pipe earthing	No	2	4465.98	8931.96	RC	6200006564
P	**Sub Total**	**P=N+O**			**2078773.67**		
Q	**Other Overheads (including supervision charges) @ 6% of P**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**2078773.67**		
S	**Labour Cess @ 1% of R**	**S**	**1%**		20787.74		
T	**Grand Total**	**T=R+S**			**2099561.40**		
				or say	**2099561.00**		

Cost Analysis of New LT Line with 95 sqmm AB Cable using 9 Mtr PSC Pole							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**146520.00**		
1	9 Mtr PSC Pole	Nos.	33	4440.00	146520.00	CDB @ 48%	
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**555765.88**		
1	Pole Clamp for AB Cable	Pair	33	296.00	9768.00	CDB @ 48%	
2	Dead end Clamp (For ABC)	Nos.	4	96.20	384.80	CDB @ 48%	
3	Suspension Clamp	Nos.	29	503.20	14592.80	CDB @ 48%	
4	Eye Hook for AB Cable	Nos.	33	88.80	2930.40	CDB @ 48%	
5	Piercing Connector	Nos.	51	118.40	6038.40	CDB @ 48%	
6	Neutral Connector Type B	Nos.	17	48.84	830.28	CDB @ 48%	
7	Earthing Coil	Nos.	33	245.68	8107.44	CDB @ 48%	
8	No.8 G.I.wire for earthing	Kg.	36	111.00	3996.00	CDB @ 48%	
9	G.I. Nut & Bolts(Assorted size)	Kg.	33	115.44	3809.52	CDB @ 48%	
10	Service Connection Distribution box (8 way)	Nos.	17	5920.00	100640.00	CDB @ 48%	
11	4C X 25sqmm LT XLPE Cable	Mtr.	85	194.08	16496.80	RC	6200006838
12	LT Stay Set	Nos.	8	769.60	6156.80	CDB @ 48%	
13	7/12SWG Stay wire	Kg.	24.64	111.00	2735.04	CDB @ 48%	
14	LT Stay Clamp (1.40 Kg./Pair)	Pair	8	162.80	1302.40	CDB @ 48%	
15	LT Stay Insulator	Nos.	8	44.40	355.20	CDB @ 48%	
16	3x95+ 1x70+ 1 x16 mm2 LT XLPE Aerial bunched Cable	CKm	1.05	359640.00	377622.00	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**702285.88**		
E	GST on Material @ 18 %	**E**	18%		126411.46		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		21068.58		
G	**Sub Total (F)**	**G=D+F**			**723354.46**		
H	T&P @ 2% of F	**H**	2%		14467.09		
I	Contingency @ 3% of F	**I**	3%		21700.63		
J	Transportation @ 7.5% of F	**J**	7.5%		54251.58		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		35616.08		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		67547.79		
N	Sub Total (M)	N=E+G+H+I+J +K+L+M			**1043349.09**		
O	**Cost of Civil Works**	**O**			**182967.78**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	15	7845.64	116507.80	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	3.7125	7845.64	29126.95	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	1.60	7845.64	12553.03	RC	6200006564
4	Dismantalling of line	Km	3.00	8260.00	24780.00	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**1226316.87**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1226316.87**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		12263.17		
T	**Grand Total**	**T=R+S**			**1238580.03**		
	or say				**1238580.00**		
				In Cr.	**0.12386**		

Cost Analysis of Additional 250 KVA DSS, 11 KV Line & LT Line						
1	250 KVA, 11/0.4 KV DSS (New)	Nos	1	1546646.00	1546646.00	
2	11 KV Line	Km	0.3	2099561.00	629868.30	
3	LT Line	Km	0.3	1238580.00	371574.00	
	Total				**2548088.30**	
				or say	**0.25481**	

Annexure 120: Cost Analysis of Additional 250 KVA DSS

Sl No	Description of materials	Unit	Qty	Rate (Rs.)	Amount (Rs.)	Remarks	Ref
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**685706.25**		
1	250 KVA, 11/0.4 KV Trf	No.	1	601213.05	601213.05	RC	6200004489
2	11 Mtr RS Joist (GI) Pole	No.	2	42246.60	84493.20	CDB @ 48%	
C	**Cost of materials for line**				**208097.95**		
1	GI Channel 100X50X6mm	Kg.	53.54	111.00	5942.50	CDB @ 48%	
2	GI Channel 75X40X6mm	Kg.	104.24	111.00	11571.08	CDB @ 48%	
3	GI Flat 50 x 6 mm	Kg.	32.10	111.00	3562.66	CDB @ 48%	
4	GI Flat 25 x 6 mm	Kg.	93.75	111.00	10406.25	CDB @ 48%	
5	11KV Disc Insulator (B & S) polymer	No.	3	1702.00	5106.00	CDB @ 48%	
6	11KV H/W Fitting (B & S Type)	No.	3	518.00	1554.00	CDB @ 48%	
7	PG Clamp for 100 sqmm conductor	No.	3	858.40	2575.20	CDB @ 48%	
8	11KV A/B Switch 3 pole.	Set	1	17538.00	17538.00	CDB @ 48%	
9	11KV H/G Fuse 3pole	Set	1	17064.40	17064.40	CDB @ 48%	
10	11KV Lightning Arrestor	No.	3	5254.00	15762.00	CDB @ 48%	
11	HT Stay set complete	No.	2	1554.00	3108.00	CDB @ 48%	
12	HT Stay Insulator	No.	2	74.00	148.00	CDB @ 48%	
13	HT Stay Clamp	Pair	2	185.00	370.00	CDB @ 48%	
14	7/10 SWG Staywire	Kg.	5.628	111.00	624.71	CDB @ 48%	
15	GI Pipe Earthing, 40mm. Dia	No.	5	1554.00	7770.00	CDB @ 48%	
16	GI Bolts, Nuts & Washers	Kg.	20	115.44	2308.80	CDB @ 48%	
17	Danger Board	No.	2	118.40	236.80	CDB @ 48%	
18	Fabrication and others	Kg.	157.78	14.80	2335.14	CDB @ 48%	
19	LT ACB (400 A)	No.	1	55447.89	55447.89	CDB @ 48%	
20	1.1 KV 4C 300 sqmm XLPE Cable (Armoured)	Mtr	20	1571.61	31432.20	RC	6200006829
21	11KV 1 core 100 mm2 XLPE insulated AAA conductor (Unarmoured) for Jumpering	Km	0.015	133200.00	1998.00	CDB @ 48%	
22	Aluminium Socket 300 sqmm	Nos.	12	76.96	923.52	CDB @ 48%	
23	3P4W LTCT Smart Meter	Nos	1.00	6550.00	6550.00	RC	4200000326
24	LT CT Ring Type	Nos	4.00	530.00	2120.00	RC	5000020422
25	12 C 2.5 sqmm Armoured Control Cable	Mtr	5.00	328.56	1642.80	RC	6200006837
D	**SUBTOTAL**	**D=A+B+C**			**893804.20**		
E	Landing Cost on Material	**E**	18%		160884.76		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		26814.13		
G	**Sub Total (F)**	**G=D+F**			**920618.32**		
H	T&P @ 2% of F	**H**	2%		18412.37		
I	Contingency @ 3% of F	**I**	3%		27618.55		
J	Transportation @ 7.5% of F	**J**	7.5%		69046.37		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		41670.37		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		25292.22		
N	Sub Total (M)	N=E+G+H+I+J +K+L+M			**1263542.96**		
O	**Cost of Civil Works**	**O**			**267789.87**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	1	7845.64	7061.08	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	0.225	7845.64	1765.27	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	0.40	7845.64	3138.26	RC	6200006564
4	Earthing pit for pipe earthing	No	5	4465.98	22329.91	RC	6200006564
5	Plinth with Boundary wall	No	1	233495.36	233495.36	Civil	TPWODL CIVIL
P	**Sub Total (O)**	**P=N+O**			**1531332.83**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1531332.83**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		15313.33		
T	**Grand Total**	**T=R+S**			**1546646.16**		
	or say				**1546646.00**		

Cost Analysis of 11 KV new line (Bare) with DP with 100sqmm AAAC using 11mtr RS Joist							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**929425.20**		
1	11mtr RSJ (GI) Pole	Nos.	22	42246.60	929425.20	CDB @ 48%	
C	**Cost of materials for line**	**C**			**447290.04**		
1	100 sqmm AAA Conductor	Km.	3.15	81400.00	256410.00	CDB @ 48%	
2	GI Channel 100x50x6mm	Kg	107	111.00	11877.00	CDB @ 48%	
3	GI Channel 75x40x6mm	Kg	160	111.00	17760.00	CDB @ 48%	
4	GI Angle 50x50x6mm	Kg	72	111.00	7992.00	CDB @ 48%	
5	Fish Plate 50x6mm	Kg	8	111.00	888.00	CDB @ 48%	
6	GI Flat 50x6mm	Kg	24	111.00	2664.00	CDB @ 48%	
7	GI Flat 25x6mm	Kg	30	111.00	3330.00	CDB @ 48%	
8	11 KV V- Cross Arm (10.2 Kg each)	No.	18	1198.80	21578.40	CDB @ 48%	
9	11 KV F Clamp 2.9 Kg. each	No.	18	355.20	6393.60	CDB @ 48%	
10	11KV Disc Insulator (B & S), Polymer	No.	12	1702.00	20424.00	CDB @ 48%	
11	11KV H/W Fitting (B & S type) for Disc Insulator	No.	12	740.00	8880.00	CDB @ 48%	
12	PG Clamp for 100 sqmm AAAC	No.	12	858.40	10300.80	CDB @ 48%	
13	11KV Pin Insulator, Polymer	No.	60	296.00	17760.00	CDB @ 48%	
14	HT Stay set complete	No.	12	1554.00	18648.00	CDB @ 48%	
15	HT Stay Insulator	No.	12	74.00	888.00	CDB @ 48%	
16	HT Stay Clamp	Pair	12	185.00	2220.00	CDB @ 48%	
17	7/10 SWG GI wire for stay	Kg.	84	111.00	9324.00	CDB @ 48%	
18	No-8 GI wire (for earthing)	Kg.	24	111.00	2664.00	CDB @ 48%	
19	Earthing of support (Coil Type)	No.	18	245.68	4422.24	CDB @ 48%	
20	40mm nominal bore GI Pipe earthing device	No.	2	1554.00	3108.00	CDB @ 48%	
21	GI Nuts Bolt & Washer	Kg.	60	115.44	6926.40	CDB @ 48%	
22	GI Barbered wire for anticlimbing	Kg.	44	118.40	5209.60	CDB @ 48%	
23	Danger Plate	No.	22	118.40	2604.80	CDB @ 48%	
24	Fabrication & Galvanisation	Kg.	339.00	14.80	5017.20	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**1376715.24**		
E	Landing Cost	**E**	18%		247808.74		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		41301.46		
G	**Sub Total**	**G=D+F**			**1418016.70**		
H	T&P @ 2% of F	H	2%		28360.33		
I	Contingency @ 3% of F	I	3%		42540.50		
J	Transportation @ 7.5% of F	J	7.5%		106351.25		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		56481.17		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		54363.63		
N	Sub Total	N=E+G+H+I+J +K+L+M			**1953922.33**		
O	**Cost of Civil Works**	**O**			**124851.34**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	10	7845.64	77671.87	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	2.475	7845.64	19417.97	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	2.40	7845.64	18829.54	RC	6200006564
4	Earthing pit for pipe earthing	No	2	4465.98	8931.96	RC	6200006564
P	**Sub Total**	**P=N+O**			**2078773.67**		
Q	**Other Overheads (including supervision charges) @ 6% of P**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**2078773.67**		
S	**Labour Cess @ 1% of R**	**S**	**1%**		20787.74		
T	**Grand Total**	**T=R+S**			**2099561.40**		
				or say	**2099561.00**		

Cost Analysis of New LT Line with 95 sqmm AB Cable using 9 Mtr PSC Pole							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**146520.00**		
1	9 Mtr PSC Pole	Nos.	33	4440.00	146520.00	CDB @ 48%	
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**555765.88**		
1	Pole Clamp for AB Cable	Pair	33	296.00	9768.00	CDB @ 48%	
2	Dead end Clamp (For ABC)	Nos.	4	96.20	384.80	CDB @ 48%	
3	Suspension Clamp	Nos.	29	503.20	14592.80	CDB @ 48%	
4	Eye Hook for AB Cable	Nos.	33	88.80	2930.40	CDB @ 48%	
5	Piercing Connector	Nos.	51	118.40	6038.40	CDB @ 48%	
6	Neutral Connector Type B	Nos.	17	48.84	830.28	CDB @ 48%	
7	Earthing Coil	Nos.	33	245.68	8107.44	CDB @ 48%	
8	No.8 G.I.wire for earthing	Kg.	36	111.00	3996.00	CDB @ 48%	
9	G.I. Nut & Bolts(Assorted size)	Kg.	33	115.44	3809.52	CDB @ 48%	
10	Service Connection Distribution box (8 way)	Nos.	17	5920.00	100640.00	CDB @ 48%	
11	4C X 25sqmm LT XLPE Cable	Mtr.	85	194.08	16496.80	RC	6200006838
12	LT Stay Set	Nos.	8	769.60	6156.80	CDB @ 48%	
13	7/12SWG Stay wire	Kg.	24.64	111.00	2735.04	CDB @ 48%	
14	LT Stay Clamp (1.40 Kg./Pair)	Pair	8	162.80	1302.40	CDB @ 48%	
15	LT Stay Insulator	Nos.	8	44.40	355.20	CDB @ 48%	
16	3x95+ 1x70+ 1 x16 mm2 LT XLPE Aerial bunched Cable	CKm	1.05	359640.00	377622.00	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**702285.88**		
E	GST on Material @ 18 %	**E**	18%		126411.46		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		21068.58		
G	**Sub Total (F)**	**G=D+F**			**723354.46**		
H	T&P @ 2% of F	**H**	2%		14467.09		
I	Contingency @ 3% of F	**I**	3%		21700.63		
J	Transportation @ 7.5% of F	**J**	7.5%		54251.58		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		35616.08		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		67547.79		
N	Sub Total (M)	**N=E+G+H+I+J +K+L+M**			**1043349.09**		
O	**Cost of Civil Works**	**O**			**182967.78**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	15	7845.64	116507.80	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	3.7125	7845.64	29126.95	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	1.60	7845.64	12553.03	RC	6200006564
4	Dismantalling of line	Km	3.00	8260.00	24780.00	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**1226316.87**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1226316.87**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		12263.17		
T	**Grand Total**	**T=R+S**			**1238580.03**		
	or say				**1238580.00**		
				In Cr.	**0.12386**		

Cost Analysis of Additional 500 KVA DSS, 11 KV Line & LT Line						
1	250 KVA, 11/0.4 KV DSS (New)	Nos	1	2667588.00	2667588.00	
2	11 KV Line	Km	0.3	2099561.00	629868.30	
3	LT Line	Km	0.3	1238580.00	371574.00	
	Total				**3669030.30**	
				or say	**0.36690**	

Annexure 121: Cost Analysis of Additional 500 KVA DSS

Sl No	Description of materials	Unit	Qty	Rate (Rs.)	Amount (Rs.)	Remarks	Ref
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**1286112.20**		
1	500 KVA, 11/0.4 KV Trf	No.	1	1201619.00	1201619.00	RC	6200004488
2	11 Mtr RS Joist (GI) Pole	No.	2	42246.60	84493.20	CDB @ 48%	
C	**Cost of materials for line**				**375465.32**		
1	GI Channel 100X50X6mm	Kg.	53.54	111.00	5942.50	CDB @ 48%	
2	GI Channel 75X40X6mm	Kg.	104.24	111.00	11571.08	CDB @ 48%	
3	GI Flat 50 x 6 mm	Kg.	32.10	111.00	3562.66	CDB @ 48%	
4	GI Flat 25 x 6 mm	Kg.	131.25	111.00	14568.75	CDB @ 48%	
5	11KV Disc Insulator (B & S) polymer	No.	3	1702.00	5106.00	CDB @ 48%	
6	11KV H/W Fitting (B & S Type)	No.	3	518.00	1554.00	CDB @ 48%	
7	PG Clamp for 100 sqmm conductor	No.	3	858.40	2575.20	CDB @ 48%	
8	11KV A/B Switch 3 pole.	Set	1	17538.00	17538.00	CDB @ 48%	
9	11KV H/G Fuse 3pole	Set	1	17064.40	17064.40	CDB @ 48%	
10	11KV Lightning Arrestor	No.	3	5254.00	15762.00	CDB @ 48%	
11	HT Stay set complete	No.	2	1554.00	3108.00	CDB @ 48%	
12	HT Stay Insulator	No.	2	74.00	148.00	CDB @ 48%	
13	HT Stay Clamp	Pair	2	185.00	370.00	CDB @ 48%	
14	7/10 SWG Staywire	Kg.	5.628	111.00	624.71	CDB @ 48%	
15	GI Pipe Earthing, 40mm. Dia	No.	7	1554.00	10878.00	CDB @ 48%	
16	GI Bolts, Nuts & Washers	Kg.	20	115.44	2308.80	CDB @ 48%	
17	Danger Board	No.	2	118.40	236.80	CDB @ 48%	
18	Fabrication and others	Kg.	157.78	14.80	2335.14	CDB @ 48%	
19	LT ACB 800 A	Nos	1.00	73389.83	73389.83	RC	6200004411
20	LT ACB (400 A)	No.	2	53200.00	106400.00	RC	6200004648
21	1.1 kV 1Cx 630 mm2 LT XLPE Cable(Un-Armoured)(SC rating of cable in kA- 59.4kA),Watertight Stranded Aluminium Conductor, FRLSH	Mtr	30	642.37	19271.19	RC	6200006829
22	1.1 KV 4C 300 sqmm XLPE Cable (Armoured)	Mtr	30	1571.61	47148.31	RC	6200006829
23	11KV 1 core 100 mm2 XLPE insulated AAA conductor (Unarmoured) for Jumpering	Km	0.015	127800.00	1917.00	CDB @ 48%	
24	Aluminium Socket 300 sqmm	Nos.	24	73.84	1772.16	CDB @ 48%	
25	3P4W LTCT Smart Meter	Nos	1.00	6550.00	6550.00	RC	4200000326
26	LT CT Ring Type	Nos	4.00	530.00	2120.00	RC	5000020422
27	12 C 2.5 sqmm Armoured Control Cable	Mtr	5.00	328.56	1642.80	RC	6200006837
D	**SUBTOTAL**	**D=A+B+C**			**1661577.52**		
E	Landing Cost on Material	**E**	18%		299083.95		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		49847.33		
G	**Sub Total (F)**	**G=D+F**			**1711424.84**		
H	T&P @ 2% of F	**H**	2%		34228.50		
I	Contingency @ 3% of F	**I**	3%		51342.75		
J	Transportation @ 7.5% of F	**J**	7.5%		128356.86		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		78157.04		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		45634.05		
N	Sub Total (M)	**N**=E+G+H+I+J +K+L+M			**2348227.99**		
O	**Cost of Civil Works**	**O**			**292948.36**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	1	7845.64	7061.08	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	0.225	7845.64	1765.27	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	0.40	7845.64	3138.26	RC	6200006564
4	Earthing pit for pipe earthing	No	7	4465.98	31261.87	RC	6200006564
5	Plinth with Boundary wall	No	1	249721.89	249721.89	Civil	TPWODL CIVIL
P	**Sub Total (O)**	**P=N+O**			**2641176.36**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**2641176.36**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		26411.76		
T	**Grand Total**	**T=R+S**			**2667588.12**		
	or say				**2667588.00**		

Cost Analysis of 11 KV new line (Bare) with DP with 100sqmm AAAC using 11mtr RS Joist							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**	**A**			**0.00**		
B	**Cost of RS Joist Poles /Transformers**	**B**			**929425.20**		
1	11mtr RSJ (GI) Pole	Nos.	22	42246.60	929425.20	CDB @ 48%	
C	**Cost of materials for line**	**C**			**447290.04**		
1	100 sqmm AAA Conductor	Km.	3.15	81400.00	256410.00	CDB @ 48%	
2	GI Channel 100x50x6mm	Kg	107	111.00	11877.00	CDB @ 48%	
3	GI Channel 75x40x6mm	Kg	160	111.00	17760.00	CDB @ 48%	
4	GI Angle 50x50x6mm	Kg	72	111.00	7992.00	CDB @ 48%	
5	Fish Plate 50x6mm	Kg	8	111.00	888.00	CDB @ 48%	
6	GI Flat 50x6mm	Kg	24	111.00	2664.00	CDB @ 48%	
7	GI Flat 25x6mm	Kg	30	111.00	3330.00	CDB @ 48%	
8	11 KV V- Cross Arm (10.2 Kg each)	No.	18	1198.80	21578.40	CDB @ 48%	
9	11 KV F Clamp 2.9 Kg. each	No.	18	355.20	6393.60	CDB @ 48%	
10	11KV Disc Insulator (B & S), Polymer	No.	12	1702.00	20424.00	CDB @ 48%	
11	11KV H/W Fitting (B & S type) for Disc Insulator	No.	12	740.00	8880.00	CDB @ 48%	
12	PG Clamp for 100 sqmm AAAC	No.	12	858.40	10300.80	CDB @ 48%	
13	11KV Pin Insulator, Polymer	No.	60	296.00	17760.00	CDB @ 48%	
14	HT Stay set complete	No.	12	1554.00	18648.00	CDB @ 48%	
15	HT Stay Insulator	No.	12	74.00	888.00	CDB @ 48%	
16	HT Stay Clamp	Pair	12	185.00	2220.00	CDB @ 48%	
17	7/10 SWG GI wire for stay	Kg.	84	111.00	9324.00	CDB @ 48%	
18	No-8 GI wire (for earthing)	Kg.	24	111.00	2664.00	CDB @ 48%	
19	Earthing of support (Coil Type)	No.	18	245.68	4422.24	CDB @ 48%	
20	40mm nominal bore GI Pipe earthing device	No.	2	1554.00	3108.00	CDB @ 48%	
21	GI Nuts Bolt & Washer	Kg.	60	115.44	6926.40	CDB @ 48%	
22	GI Barbered wire for anticlimbing	Kg.	44	118.40	5209.60	CDB @ 48%	
23	Danger Plate	No.	22	118.40	2604.80	CDB @ 48%	
24	Fabrication & Galvanisation	Kg.	339.00	14.80	5017.20	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**1376715.24**		
E	Landing Cost on Material	**E**	18%		247808.74		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		41301.46		
G	**Sub Total**	**G=D+F**			**1418016.70**		
H	T&P @ 2% of F	H	2%		28360.33		
I	Contingency @ 3% of F	I	3%		42540.50		
J	Transportation @ 7.5% of F	J	7.5%		106351.25		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ Applicable taxes	K	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ Applicable taxes	L	5%		56481.17		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+ Applicable taxes	M	10%		54363.63		
N	Sub Total	**N**=E+G+H+I+J +K+L+M			**1953922.33**		
O	**Cost of Civil Works**	**O**			**124851.34**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	10	7845.64	77671.87	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	2.475	7845.64	19417.97	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	2.40	7845.64	18829.54	RC	6200006564
4	Earthing pit for pipe earthing	No	2	4465.98	8931.96	RC	6200006564
P	**Sub Total**	**P=N+O**			**2078773.67**		
Q	**Other Overheads (including supervision charges) @ 6% of P**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**2078773.67**		
S	**Labour Cess @ 1% of R**	**S**	**1%**		20787.74		
T	**Grand Total**	**T=R+S**			**2099561.40**		
				or say	**2099561.00**		

Cost Analysis of New LT Line with 95 sqmm AB Cable using 9 Mtr PSC Pole							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**146520.00**		
1	9 Mtr PSC Pole	Nos.	33	4440.00	146520.00	CDB @ 48%	
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**555765.88**		
1	Pole Clamp for AB Cable	Pair	33	296.00	9768.00	CDB @ 48%	
2	Dead end Clamp (For ABC)	Nos.	4	96.20	384.80	CDB @ 48%	
3	Suspension Clamp	Nos.	29	503.20	14592.80	CDB @ 48%	
4	Eye Hook for AB Cable	Nos.	33	88.80	2930.40	CDB @ 48%	
5	Piercing Connector	Nos.	51	118.40	6038.40	CDB @ 48%	
6	Neutral Connector Type B	Nos.	17	48.84	830.28	CDB @ 48%	
7	Earthing Coil	Nos.	33	245.68	8107.44	CDB @ 48%	
8	No.8 G.I.wire for earthing	Kg.	36	111.00	3996.00	CDB @ 48%	
9	G.I. Nut & Bolts(Assorted size)	Kg.	33	115.44	3809.52	CDB @ 48%	
10	Service Connection Distribution box (8 way)	Nos.	17	5920.00	100640.00	CDB @ 48%	
11	4C X 25sqmm LT XLPE Cable	Mtr.	85	194.08	16496.80	RC	6200006838
12	LT Stay Set	Nos.	8	769.60	6156.80	CDB @ 48%	
13	7/12SWG Stay wire	Kg.	24.64	111.00	2735.04	CDB @ 48%	
14	LT Stay Clamp (1.40 Kg./Pair)	Pair	8	162.80	1302.40	CDB @ 48%	
15	LT Stay Insulator	Nos.	8	44.40	355.20	CDB @ 48%	
16	3x95+ 1x70+ 1 x16 mm2 LT XLPE Aerial bunched Cable	CKm	1.05	359640.00	377622.00	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**702285.88**		
E	Landing Cost on Material	**E**	18%		126411.46		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		21068.58		
G	**Sub Total (F)**	**G=D+F**			**723354.46**		
H	T&P @ 2% of F	**H**	2%		14467.09		
I	Contingency @ 3% of F	**I**	3%		21700.63		
J	Transportation @ 7.5% of F	**J**	7.5%		54251.58		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		35616.08		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		67547.79		
N	Sub Total (M)	**N**=E+G+H+I+J +K+L+M			**1043349.09**		
O	**Cost of Civil Works**	**O**			**182967.78**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	15	7845.64	116507.80	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	3.7125	7845.64	29126.95	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	1.60	7845.64	12553.03	RC	6200006564
4	Dismantalling of line	Km	3.00	8260.00	24780.00	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**1226316.87**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1226316.87**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		12263.17		
T	**Grand Total**	**T=R+S**			**1238580.03**		
	or say				**1238580.00**		
				In Cr.	**0.12386**		

Aug 250 KVA DSS & LT Line						
1	250 KVA, 11/0.4 KV DSS	Nos	1	1367876.00	1367876.00	
2	LT Line	Km	0.3	1238580.00	371574.00	
	Total				**1739450.00**	
				or say	**0.17395**	

Annexure 122: Cost Analysis of 250 KVA, 11/0.4 KV DSS (Aug)							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**601213.05**		
1	250 KVA, 11/0.4 KV Trf	No.	1	601213.05	601213.05	RC	6200004489
C	**Cost of materials for line**				**171200.66**		
1	GI Flat 25 x 6 mm	Kg.	93.75	111.00	10406.25	CDB @ 48%	
2	11KV A/B Switch 3 pole.	Set	1	17538.00	17538.00	CDB @ 48%	
3	11KV H/G Fuse 3pole	Set	1	17064.40	17064.40	CDB @ 48%	
4	11KV Lightning Arrestor	No.	3	5254.00	15762.00	CDB @ 48%	
5	GI Pipe Earthing, 40mm. Dia	No.	5	1554.00	7770.00	CDB @ 48%	
6	GI Bolts, Nuts & Washers	Kg.	20	115.44	2308.80	CDB @ 48%	
7	Danger Board	No.	2	118.40	236.80	CDB @ 48%	
8	LT ACB (400 A)	No.	1	55447.89	55447.89	CDB @ 48%	
9	1.1 KV 4C 300 sqmm XLPE Cable (Armoured)	Mtr	20	1571.61	31432.20	RC	6200006829
10	11KV 1 core 100 mm2 XLPE insulated AAA conductor (Unarmoured) for Jumpering	Km	0.015	133200.00	1998.00	CDB @ 48%	
11	Aluminium Socket 300 sqmm	Nos.	12	76.96	923.52	CDB @ 48%	
12	3P4W LTCT Smart Meter	Nos	1.00	6550.00	6550.00	RC	4200000326
13	LT CT Ring Type	Nos	4.00	530.00	2120.00	RC	5000020422
14	12 C 2.5 sqmm Armoured Control Cable	Mtr	5.00	328.56	1642.80	RC	6200006837
D	**SUBTOTAL**	**D=A+B+C**			**772413.71**		
E	Landing Cost on Material	**E**	18%		139034.47		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		23172.41		
G	**Sub Total (F)**	**G=D+F**			**795586.12**		
H	T&P @ 2% of F	**H**	2%		15911.72		
I	Contingency @ 3% of F	**I**	3%		23867.58		
J	Transportation @ 7.5% of F	**J**	7.5%		59668.96		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		36535.72		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		20807.73		
N	Sub Total (M)	**N**=E+G+H+I+J +K+L+M			**1091412.30**		
O	**Cost of Civil Works**	**O**			**262920.18**		
1	Earthing pit for pipe earthing	No	5	4465.98	22329.91	RC	6200006564
2	Plinth with Boundary wall	No	1	233495.36	233495.36	Civil	TPWODL CIVIL
3	Dismantalling Cost of 100 KVA Trf	Nos	1	3849.92	3849.92	RC	6200006564
4	Dismantalling Cost of Existing LTDB/MCCB	Nos	1	3245.00	3245.00	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**1354332.47**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1354332.47**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		13543.32		
T	**Grand Total**	**T=R+S**			**1367875.80**		
or say					**1367876.00**		

Cost Analysis of New LT Line with 95 sqmm AB Cable using 9 Mtr PSC Pole							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**146520.00**		
1	9 Mtr PSC Pole	Nos.	33	4440.00	146520.00	CDB @ 48%	
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**555765.88**		
1	Pole Clamp for AB Cable	Pair	33	296.00	9768.00	CDB @ 48%	
2	Dead end Clamp (For ABC)	Nos.	4	96.20	384.80	CDB @ 48%	
3	Suspension Clamp	Nos.	29	503.20	14592.80	CDB @ 48%	
4	Eye Hook for AB Cable	Nos.	33	88.80	2930.40	CDB @ 48%	
5	Piercing Connector	Nos.	51	118.40	6038.40	CDB @ 48%	
6	Neutral Connector Type B	Nos.	17	48.84	830.28	CDB @ 48%	
7	Earthing Coil	Nos.	33	245.68	8107.44	CDB @ 48%	
8	No.8 G.I.wire for earthing	Kg.	36	111.00	3996.00	CDB @ 48%	
9	G.I. Nut & Bolts(Assorted size)	Kg.	33	115.44	3809.52	CDB @ 48%	
10	Service Connection Distribution box (8 way)	Nos.	17	5920.00	100640.00	CDB @ 48%	
11	4C X 25sqmm LT XLPE Cable	Mtr.	85	194.08	16496.80	RC	6200006838
12	LT Stay Set	Nos.	8	769.60	6156.80	CDB @ 48%	
13	7/12SWG Stay wire	Kg.	24.64	111.00	2735.04	CDB @ 48%	
14	LT Stay Clamp (1.40 Kg./Pair)	Pair	8	162.80	1302.40	CDB @ 48%	
15	LT Stay Insulator	Nos.	8	44.40	355.20	CDB @ 48%	
16	3x95+ 1x70+ 1 x16 mm2 LT XLPE Aerial bunched Cable	CKm	1.05	359640.00	377622.00	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**702285.88**		
E	Landing Cost on Material	**E**	18%		126411.46		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		21068.58		
G	**Sub Total (F)**	**G=D+F**			**723354.46**		
H	T&P @ 2% of F	**H**	2%		14467.09		
I	Contingency @ 3% of F	**I**	3%		21700.63		
J	Transportation @ 7.5% of F	**J**	7.5%		54251.58		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		35616.08		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		67547.79		
N	Sub Total (M)	**N**=E+G+H+I+J +K+L+M			**1043349.09**		
O	**Cost of Civil Works**	**O**			**182967.78**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	15	7845.64	116507.80	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	3.7125	7845.64	29126.95	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	1.60	7845.64	12553.03	RC	6200006564
4	Dismantalling of line	Km	3.00	8260.00	24780.00	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**1226316.87**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1226316.87**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		12263.17		
T	**Grand Total**	**T=R+S**			**1238580.03**		
or say					**1238580.00**		
				In Cr.	**0.12386**		

500 KVA DSS & LT Line						
1	500 KVA, 11/0.4 KV DSS	Nos	1	2404263.00	2404263.00	
2	LT Line	Km	0.6	1238580.00	743148.00	
	Total				**3147411.00**	
				or say	**0.31474**	

Annexure 123: Cost Analysis of 500 KVA, 11/0.4 KV DSS (Aug)

Sl No	Description of materials	Unit	Qty	Rate (Rs.)	Amount (Rs.)	Remarks	Ref
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**1201619.00**		
1	500 KVA, 11/0.4 KV Trf	No.	1	1201619.00	1201619.00	RC	6200004488
C	**Cost of materials for line**				**282134.71**		
1	GI Flat 25 x 6 mm	Kg.	131.25	111.00	14568.75	CDB @ 48%	
2	11KV A/B Switch 3 pole.	Set	1	17538.00	17538.00	CDB @ 48%	
3	11KV H/G Fuse 3pole	Set	1	17064.40	17064.40	CDB @ 48%	
4	11KV Lightning Arrestor	No.	3	5254.00	15762.00	CDB @ 48%	
5	GI Pipe Earthing, 40mm. Dia	No.	7	1554.00	10878.00	CDB @ 48%	
6	GI Bolts, Nuts & Washers	Kg.	10	115.44	1154.40	CDB @ 48%	
7	LT ACB 800 A	Nos	1.00	73389.83	73389.83	RC	6200004411
8	LT ACB (400 A)	No.	1	53200.00	53200.00	RC	6200004648
9	1.1 kV 1Cx 630 mm2 LT XLPE Cable(Un-Armoured)(SC rating of cable in kA- 59.4kA),Watertight Stranded Aluminium Conductor, FRLSH	Mtr	30	642.37	19271.19	RC	6200006829
10	1.1 KV 4C 300 sqmm XLPE Cable (Armoured)	Mtr	30	1571.61	47148.31	RC	6200006829
11	Aluminium Socket 300 sqmm	Nos.	24	76.96	1847.04	CDB @ 48%	
12	3P4W LTCT Smart Meter	Nos	1.00	6550.00	6550.00	RC	4200000326
13	LT CT Ring Type	Nos	4.00	530.00	2120.00	RC	5000020422
14	12 C 2.5 sqmm Armoured Control Cable	Mtr	5.00	328.56	1642.80	RC	6200006837
D	**SUBTOTAL**	**D=A+B+C**			**1483753.71**		
E	Landing Cost on Material	**E**	18%		267075.67		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		44512.61		
G	**Sub Total (F)**	**G=D+F**			**1528266.32**		
H	T&P @ 2% of F	**H**	2%		30565.33		
I	Contingency @ 3% of F	**I**	3%		45847.99		
J	Transportation @ 7.5% of F	**J**	7.5%		114619.97		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		73022.39		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		34290.65		
N	Sub Total (M)	**N=E+G+H+I+J +K+L+M**			**2093688.32**		
O	**Cost of Civil Works**	**O**			**286770.57**		
1	Earthing pit for pipe earthing	No	7	4465.98	31261.87	RC	6200006564
2	Plinth with Boundary wall	No	1	249721.89	249721.89	RC	6200006564
3	Dismantalling Cost of 250 KVA Trf	Nos	1	5786.81	5786.81	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**2380458.89**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**2380458.89**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		23804.59		
T	**Grand Total**	**T=R+S**			**2404263.48**		
	or say				**2404263.00**		

Cost Analysis of New LT Line with 95 sqmm AB Cable using 9 Mtr PSC Pole							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**146520.00**		
1	9 Mtr PSC Pole	Nos.	33	4440.00	146520.00	CDB @ 48%	
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**555765.88**		
1	Pole Clamp for AB Cable	Pair	33	296.00	9768.00	CDB @ 48%	
2	Dead end Clamp (For ABC)	Nos.	4	96.20	384.80	CDB @ 48%	
3	Suspension Clamp	Nos.	29	503.20	14592.80	CDB @ 48%	
4	Eye Hook for AB Cable	Nos.	33	88.80	2930.40	CDB @ 48%	
5	Piercing Connector	Nos.	51	118.40	6038.40	CDB @ 48%	
6	Neutral Connector Type B	Nos.	17	48.84	830.28	CDB @ 48%	
7	Earthing Coil	Nos.	33	245.68	8107.44	CDB @ 48%	
8	No.8 G.I.wire for earthing	Kg.	36	111.00	3996.00	CDB @ 48%	
9	G.I. Nut & Bolts(Assorted size)	Kg.	33	115.44	3809.52	CDB @ 48%	
10	Service Connection Distribution box (8 way)	Nos.	17	5920.00	100640.00	CDB @ 48%	
11	4C X 25sqmm LT XLPE Cable	Mtr.	85	194.08	16496.80	RC	6200006838
12	LT Stay Set	Nos.	8	769.60	6156.80	CDB @ 48%	
13	7/12SWG Stay wire	Kg.	24.64	111.00	2735.04	CDB @ 48%	
14	LT Stay Clamp (1.40 Kg./Pair)	Pair	8	162.80	1302.40	CDB @ 48%	
15	LT Stay Insulator	Nos.	8	44.40	355.20	CDB @ 48%	
16	3x95+ 1x70+ 1 x16 mm2 LT XLPE Aerial bunched Cable	CKm	1.05	359640.00	377622.00	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**702285.88**		
E	Landing Cost on Material	**E**	18%		126411.46		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		21068.58		
G	**Sub Total (F)**	**G=D+F**			**723354.46**		
H	T&P @ 2% of F	**H**	2%		14467.09		
I	Contingency @ 3% of F	**I**	3%		21700.63		
J	Transportation @ 7.5% of F	**J**	7.5%		54251.58		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		35616.08		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		67547.79		
N	Sub Total (M)	**N=E+G+H+I+J +K+L+M**			**1043349.09**		
O	**Cost of Civil Works**	**O**			**182967.78**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	15	7845.64	116507.80	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	3.7125	7845.64	29126.95	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	1.60	7845.64	12553.03	RC	6200006564
4	Dismantalling of line	Km	3.00	8260.00	24780.00	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**1226316.87**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1226316.87**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		12263.17		
T	**Grand Total**	**T=R+S**			**1238580.03**		
	or say				**1238580.00**		
				In Cr.	**0.12386**		

	1 MVA DSS & LT Line					
1	1 MVA, 11/0.4 KV DSS	Nos	1	3694358.00	3694358.00	
2	LT Line	Km	1.2	1238580.00	1486296.00	
	Total				**5180654.00**	
				or say	**0.51807**	

Annexure 124: Cost Analysis of 1 MVA, 11/0.4 KV DSS (Aug)							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**1937700.00**		
1	1 MVA, 11/0.4 KV Trf	No.	1	1937700.00	1937700.00	RC	6200004489
C	**Cost of materials for line**				**450417.60**		
1	GI Flat 25 x 6 mm	Kg.	131.25	111.00	14568.75	CDB @ 48%	
2	11KV A/B Switch 3 pole.	Set	1	17538.00	17538.00	CDB @ 48%	
3	11KV H/G Fuse 3pole	Set	1	17064.40	17064.40	CDB @ 48%	
4	11KV Lightning Arrestor	No.	3	5254.00	15762.00	CDB @ 48%	
5	GI Pipe Earthing, 40mm. Dia	No.	7	1554.00	10878.00	CDB @ 48%	
6	GI Bolts, Nuts & Washers	Kg.	10	115.44	1154.40	CDB @ 48%	
7	LT ACB 1600 A/2000 A	Nos	1.00	100935.00	100935.00	RC	4200002166
8	LT ACB (400 A)	No.	2	53200.00	106400.00	RC	6200004648
9	1.1 kV 1Cx 630 mm2 LT XLPE Cable(Un-Armoured)(SC rating of cable in kA- 59.4kA),Watertight Stranded Aluminium Conductor, FRLSH	Mtr	90	642.37	57813.56	RC	6200006829
10	1.1 KV 4C 300 sqmm XLPE Cable (Armoured)	Mtr	60	1571.61	94296.61	RC	6200006829
11	Aluminium Socket 300 sqmm	Nos.	48	76.96	3694.08	CDB @ 48%	
12	3P4W LTCT Smart Meter	Nos	1.00	6550.00	6550.00	RC	4200000326
13	LT CT Ring Type	Nos	4.00	530.00	2120.00	RC	5000020422
14	12 C 2.5 sqmm Armoured Control Cable	Mtr	5.00	328.56	1642.80	RC	6200006837
D	**SUBTOTAL**	**D=A+B+C**			**2388117.60**		
E	Landing Cost on Material	**E**	18%		429861.17		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		71643.53		
G	**Sub Total (F)**	**G=D+F**			**2459761.12**		
H	T&P @ 2% of F	**H**	2%		49195.22		
I	Contingency @ 3% of F	**I**	3%		73792.83		
J	Transportation @ 7.5% of F	**J**	7.5%		184482.08		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		117754.03		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		54743.75		
N	Sub Total (M)	**N=E+G+H+I+J +K+L+M**			**3369590.22**		
O	**Cost of Civil Works**	**O**			**288190.40**		
1	Earthing pit for pipe earthing	No	7	4465.98	31261.87	RC	6200006564
2	Plinth with Boundary wall	No	1	249721.89	249721.89	RC	6200006564
3	Dismantalling Cost of 500 KVA Trf	Nos	1	7206.64	7206.64	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**3657780.61**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**3657780.61**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		36577.81		
T	**Grand Total**	**T=R+S**			**3694358.42**		
	or say				**3694358.00**		

1	1 Cost Analysis of New LT Line with 95 sqmm AB Cable using 9 Mtr PSC Pole						
		Pole		AB Cable (CKm)	Dismantal		
		33		1	1		
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**		
A	**Cost of PSC Poles**				**146520.00**		
1	9 Mtr PSC Pole	Nos.	33	4440.00	146520.00	CDB @ 48%	
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**555765.88**		
1	Pole Clamp for AB Cable	Pair	33	296.00	9768.00	CDB @ 48%	
2	Dead end Clamp (For ABC)	Nos.	4	96.20	384.80	CDB @ 48%	
3	Suspension Clamp	Nos.	29	503.20	14592.80	CDB @ 48%	
4	Eye Hook for AB Cable	Nos.	33	88.80	2930.40	CDB @ 48%	
5	Piercing Connector	Nos.	51	118.40	6038.40	CDB @ 48%	
6	Neutral Connector Type B	Nos.	17	48.84	830.28	CDB @ 48%	
7	Earthing Coil	Nos.	33	245.68	8107.44	CDB @ 48%	
8	No.8 G.I.wire for earthing	Kg.	36	111.00	3996.00	CDB @ 48%	
9	G.I. Nut & Bolts(Assorted size)	Kg.	33	115.44	3809.52	CDB @ 48%	
10	Service Connection Distribution box (8 way)	Nos.	17	5920.00	100640.00	CDB @ 48%	
11	4C X 25sqmm LT XLPE Cable	Mtr.	85	194.08	16496.80	RC	6200006838
12	LT Stay Set	Nos.	8	769.60	6156.80	CDB @ 48%	
13	7/12SWG Stay wire	Kg.	24.64	111.00	2735.04	CDB @ 48%	
14	LT Stay Clamp (1.40 Kg./Pair)	Pair	8	162.80	1302.40	CDB @ 48%	
15	LT Stay Insulator	Nos.	8	44.40	355.20	CDB @ 48%	
16	3x95+ 1x70+ 1 x16 mm2 LT XLPE Aerial bunched Cable	CKm	1.05	359640.00	377622.00	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**702285.88**		
E	Landing Cost on Material	**E**	18%		126411.46		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		21068.58		
G	**Sub Total (F)**	**G=D+F**			**723354.46**		
H	T&P @ 2% of F	**H**	2%		14467.09		
I	Contingency @ 3% of F	**I**	3%		21700.63		
J	Transportation @ 7.5% of F	**J**	7.5%		54251.58		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		35616.08		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		67547.79		
N	Sub Total (M)	**N=E+G+H+I+J +K+L+M**			**1043349.09**		
O	**Cost of Civil Works**	**O**			**182967.78**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	15	7845.64	116507.80	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	3.7125	7845.64	29126.95	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	1.60	7845.64	12553.03	RC	6200006564
4	Dismantalling of line	Km	3.00	8260.00	24780.00	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**1226316.87**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1226316.87**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		12263.17		
T	**Grand Total**	**T=R+S**			**1238580.03**		
	or say				**1238580.00**		
				In Cr.	**0.12386**		

Annexure 125: Cost Analysis of LT MCCB for 100 KVA							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**56372.85**		
1	LT Distribution Box with MCCB, Aluminium Busbar for 2 Bay with kit kat fuse for 100 KVA S/S	Nos	1.00	36140.12	36140.12	CDB @ 48%	
2	CABLE 1.1KV AL 4CX150 SQMM ARMORED (SC rating of cable in kA-14.2kA and SC rating of Armour in kA- 10.98kA	Mtr	20.00	849.58	16991.53	RC	6200006831
3	Pipe Earthing (GI)	Nos.	1	1554.00	1554.00	CDB @ 48%	
4	GI Flat 25 X 6 mm	Kg	10	111.00	1110.00	CDB @ 48%	
5	GI Nuts Bolt & Washer	Kg	5	115.44	577.20	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**56372.85**		
E	Landing Cost on Material	**E**	18%		10147.11		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		1691.19		
G	**Sub Total (F)**	**G=D+F**			**58064.03**		
H	T&P @ 2% of F	**H**	2%		1161.28		
I	Contingency @ 3% of F	**I**	3%		1741.92		
J	Transportation @ 7.5% of F	**J**	7.5%		4354.80		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		6851.56		
N	Sub Total (M)	N=E+G+H+I+J +K+L+M			**82320.70**		
O	**Cost of Civil Works**	**O**			**10501.09**		
1	Installation of ACB/ MCCB	No.	1	6035.11	6035.11	RC	6200006564
2	Earthing Pit for Pipe Earthing	No	1	4465.98	4465.98	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**92821.79**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**92821.79**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		928.22		
T	**Grand Total**	**T=R+S**			**93750.01**		
or say					**93750.00**		
In Cr.					**0.00938**		

Annexure 126: Cost Analysis of LT ACB for 250 KVA, 11/0.4 KV							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**87873.40**		
1	LT ACB 400 A	Nos	1.00	53200.00	53200.00	RC	6200004648
2	CABLE 1.1KV AL 4CX300 SQMM XLPE ARMORED (SC rating of cable in kA-28.2kA and SC rating of Armour in kA- 16.98kA	Mtr	20.00	1571.61	31432.20	RC	6200006829
3	Pipe Earthing (GI)	Nos.	1	1554.00	1554.00	CDB @ 48%	
4	GI Flat 25 X 6 mm	Kg	10	111.00	1110.00	CDB @ 48%	
5	GI Nuts Bolt & Washer	Kg	5	115.44	577.20	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**87873.40**		
E	Landing Cost on Material	**E**	18%		15817.21		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		2636.20		
G	**Sub Total (F)**	**G=D+F**			**90509.61**		
H	T&P @ 2% of F	**H**	2%		1810.19		
I	Contingency @ 3% of F	**I**	3%		2715.29		
J	Transportation @ 7.5% of F	**J**	7.5%		6788.22		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		10680.13		
N	Sub Total (M)	N=E+G+H+I+J +K+L+M			**128320.65**		
O	**Cost of Civil Works**	**O**			**10501.09**		
1	Installation of ACB/ MCCB	No.	1	6035.11	6035.11	RC	6200006564
2	Earthing Pit for Pipe Earthing	No	1	4465.98	4465.98	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**138821.74**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**138821.74**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		1388.22		
T	**Grand Total**	**T=R+S**			**140209.96**		
or say					**140210.00**		
In Cr.					**0.01402**		

Annexure 127: Cost Analysis of LT ACB for 500 KVA, 11/0.4 KV							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**179301.89**		
1	LT ACB 400 A	Nos	2.00	53200.00	106400.00	RC	6200004648
2	1.1 kV 1Cx 630 mm2 LT XLPE Cable(Un-Armoured)(SC rating of cable in kA- 59.4kA),Watertight Stranded Aluminium Conductor, FRLSH	Mtr	30.00	642.37	19271.19	RC	6200006829
3	CABLE 1.1KV AL 4CX300 SQMM XLPE ARMORED (SC rating of cable in kA-28.2kA and SC rating of Armour in kA- 16.98kA	Mtr	30.00	1571.61	47148.31	RC	6200006829
4	Pipe Earthing (GI)	Nos.	2	1554.00	3108.00	CDB @ 48%	
5	GI Flat 25 X 6 mm	Kg	20	111.00	2220.00	CDB @ 48%	
6	GI Nuts Bolt & Washer	Kg	10	115.44	1154.40	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**179301.89**		
E	Landing Cost on Material	**E**	18%		32274.34		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		5379.06		
G	**Sub Total (F)**	**G=D+F**			**184680.95**		
H	T&P @ 2% of F	**H**	2%		3693.62		
I	Contingency @ 3% of F	**I**	3%		5540.43		
J	Transportation @ 7.5% of F	**J**	7.5%		13851.07		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		21792.35		
N	Sub Total (M)	**N**=E+G+H+I+J +K+L+M			**261832.76**		
O	**Cost of Civil Works**	**O**			**21002.18**		
1	Installation of ACB/ MCCB	No.	2	6035.11	12070.22	RC	6200006564
2	Earthing Pit for Pipe Earthing	No	2	4465.98	8931.96	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**282834.94**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**282834.94**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		2828.35		
T	**Grand Total**	**T=R+S**			**285663.29**		
or say					**285663.00**		
				In Cr.	**0.02857**		

Annexure 128: Cost Analysis of LT ACB for 1000 KVA, 11/0.4 KV							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**377874.97**		
1	LT ACB 400 A	Nos	4.00	53200.00	212800.00	RC	6200004648
2	1.1 kV 1Cx 630 mm2 LT XLPE Cable(Un-Armoured)(SC rating of cable in kA- 59.4kA),Watertight Stranded Aluminium Conductor, FRLSH	Mtr	90.00	642.37	57813.56	RC	6200006829
3	CABLE 1.1KV AL 4CX300 SQMM XLPE ARMORED (SC rating of cable in kA-28.2kA and SC rating of Armour in kA- 16.98kA	Mtr	60.00	1571.61	94296.61	RC	6200006829
4	Pipe Earthing (GI)	Nos.	4	1554.00	6216.00	CDB @ 48%	
5	GI Flat 25 X 6 mm	Kg	40	111.00	4440.00	CDB @ 48%	
6	GI Nuts Bolt & Washer	Kg	20	115.44	2308.80	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**377874.97**		
E	Landing Cost on Material	**E**	18%		68017.49		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		11336.25		
G	**Sub Total (F)**	**G=D+F**			**389211.22**		
H	T&P @ 2% of F	**H**	2%		7784.22		
I	Contingency @ 3% of F	**I**	3%		11676.34		
J	Transportation @ 7.5% of F	**J**	7.5%		29190.84		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		45926.92		
N	Sub Total (M)	N=E+G+H+I+J +K+L+M			**551807.04**		
O	**Cost of Civil Works**	**O**			**42004.37**		
1	Installation of ACB/ MCCB	No.	4	6035.11	24140.44	RC	6200006564
2	Earthing Pit for Pipe Earthing	No	4	4465.98	17863.93	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**593811.40**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**593811.40**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		5938.11		
T	**Grand Total**	**T=R+S**			**599749.52**		
or say					**599750.00**		
In Cr.					**0.05998**		

Annexure 129: Cost Analysis of LT MCCB for 25 KVA							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**35875.69**		
1	LT Distribution Box with MCCB, Aluminium Busbar of single Bay with kit kat fuse for 25 KVA S/S	Nos	1.00	22096.40	22096.40	CDB @ 48%	
2	1.1 KV 4C 95 sqmm XLPE Cable	Mtr	20.00	533.47	10669.49	RC	6200006831
3	Pipe Earthing (GI)	Nos.	1	1491.00	1491.00	CDB @ 48%	
4	GI Flat 25 X 6 mm	Kg	10	106.50	1065.00	CDB @ 48%	
5	GI Nuts Bolt & Washer	Kg	5	110.76	553.80	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**35875.69**		
E	Landing Cost on Material	**E**	18%		6457.62		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		1076.27		
G	**Sub Total (F)**	**G=D+F**			**36951.96**		
H	T&P @ 2% of F	**H**	2%		739.04		
I	Contingency @ 3% of F	**I**	3%		1108.56		
J	Transportation @ 7.5% of F	**J**	7.5%		2771.40		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		4360.33		
N	Sub Total (M)	**N=E+G+H+I+J +K+L+M**			**52388.91**		
O	**Cost of Civil Works**	**O**			**10501.09**		
1	Installation of ACB/ MCCB	No.	1	6035.11	6035.11	RC	6200006564
2	Earthing Pit for Pipe Earthing	No	1	4465.98	4465.98	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**62890.00**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**62890.00**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		628.90		
T	**Grand Total**	**T=R+S**			**63518.91**		
or say					**63519.00**		
In Cr.					**0.00635**		

Annexure 130: Cost Analysis of LT MCCB for 63 KVA							
Sl No	Description of materials	Unit	Qty	Rate (Rs.)	Amount (Rs.)	Remarks	Ref
A	**Cost of PSC Poles**				**0.00**		
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**40895.85**		
1	LT Distribution Box with MCCB, Aluminium Busbar for single Bay with kit kat fuse for 63 KVA S/S	Nos	1.00	27116.56	27116.56	CDB @ 48%	
2	1.1 KV 4C 95 sqmm XLPE Cable	Mtr	20.00	533.47	10669.49	RC	6200006831
3	Pipe Earthing (GI)	Nos.	1	1491.00	1491.00	CDB @ 48%	
4	GI Flat 25 X 6 mm	Kg	10	106.50	1065.00	CDB @ 48%	
5	GI Nuts Bolt & Washer	Kg	5	110.76	553.80	CDB @ 48%	
D	**SUBTOTAL**	**D=A+B+C**			**40895.85**		
E	Landing Cost on Material	**E**	18%		7361.25		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		1226.88		
G	**Sub Total (F)**	**G=D+F**			**42122.73**		
H	T&P @ 2% of F	**H**	2%		842.45		
I	Contingency @ 3% of F	**I**	3%		1263.68		
J	Transportation @ 7.5% of F	**J**	7.5%		3159.20		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		0.00		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		4970.48		
N	Sub Total (M)	**N=E+G+H+I+J +K+L+M**			**59719.80**		
O	**Cost of Civil Works**	**O**			**10501.09**		
1	Installation of ACB/ MCCB	No.	1	6035.11	6035.11	RC	6200006564
2	Earthing Pit for Pipe Earthing	No	1	4465.98	4465.98	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**70220.89**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**70220.89**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		702.21		
T	**Grand Total**	**T=R+S**			**70923.10**		
or say					**70923.00**		
In Cr.					**0.00709**		

Annexure 131: Cost Analysis of New LT Line with 95 sqmm AB Cable using 9 Mtr PSC Pole							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	Ref
A	**Cost of PSC Poles**				**146520.00**		
1	9 Mtr PSC Pole	Nos.	33	4440.00	146520.00	CDB @ 48%	
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**474359.38**		
1	Pole Clamp for AB Cable	Pair	33	296.00	9768.00	CDB @ 48%	
2	Dead end Clamp (For ABC)	Nos.	4	96.20	384.80	CDB @ 48%	
3	Suspension Clamp	Nos.	29	503.20	14592.80	CDB @ 48%	
4	Eye Hook for AB Cable	Nos.	33	88.80	2930.40	CDB @ 48%	
5	Piercing Connector	Nos.	51	118.40	6038.40	CDB @ 48%	
6	Neutral Connector Type B	Nos.	17	48.84	830.28	CDB @ 48%	
7	Earthing Coil	Nos.	33	245.68	8107.44	CDB @ 48%	
8	No.8 G.I.wire for earthing	Kg.	36	111.00	3996.00	CDB @ 48%	
9	G.I. Nut & Bolts(Assorted size)	Kg.	33	115.44	3809.52	CDB @ 48%	
10	Service Connection Distribution box (8 way)	Nos.	17	5920.00	100640.00	CDB @ 48%	
11	4C X 25sqmm LT XLPE Cable	Mtr.	85	194.08	16496.80	RC	6200006838
12	LT Stay Set	Nos.	8	769.60	6156.80	CDB @ 48%	
13	7/12SWG Stay wire	Kg.	24.64	111.00	2735.04	CDB @ 48%	
14	LT Stay Clamp (1.40 Kg./Pair)	Pair	8	162.80	1302.40	CDB @ 48%	
15	LT Stay Insulator	Nos.	8	44.40	355.20	CDB @ 48%	
16	3x95+ 1x70+ 1 x16 mm2 LT XLPE Aerial bunched Cable	CKm	1.05	282110.00	296215.50	RC	6200004825
D	**SUBTOTAL**	**D=A+B+C**			**620879.38**		
E	Landing Cost on Materials	**E**	18%		111758.29		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		18626.38		
G	**Sub Total (F)**	**G=D+F**			**639505.76**		
H	T&P @ 2% of F	**H**	2%		12790.12		
I	Contingency @ 3% of F	**I**	3%		19185.17		
J	Transportation @ 7.5% of F	**J**	7.5%		47962.93		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		35616.08		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		57653.64		
N	Sub Total (M)	**N=E+G+H+I+J +K+L+M**			**924471.99**		
O	**Cost of Civil Works**	**O**			**158187.78**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	15	7845.64	116507.80	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	3.7125	7845.64	29126.95	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	1.60	7845.64	12553.03	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**1082659.77**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1082659.77**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		10826.60		
T	**Grand Total**	**T=R+S**			**1093486.37**		
	or say				**1093486.00**		
				In Cr.	**0.10935**		

Annexure 132: Cost Analysis of New LT Line with 120 sqmm AB Cable using 9 Mtr PSC Pole							
Sl No	**Description of materials**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**	**Remarks**	**Ref**
A	**Cost of PSC Poles**				**146520.00**		
1	9 Mtr PSC Pole	Nos.	33	4440.00	146520.00	CDB @ 48%	
B	**Cost of Transformer/Breaker/ Joist Pole**				**0.00**		
C	**Cost of materials for line**				**546063.88**		
1	Pole Clamp for AB Cable	Pair	33	296.00	9768.00	CDB @ 48%	
2	Dead end Clamp (For ABC)	Nos.	4	96.20	384.80	CDB @ 48%	
3	Suspension Clamp	Nos.	29	503.20	14592.80	CDB @ 48%	
4	Eye Hook for AB Cable	Nos.	33	88.80	2930.40	CDB @ 48%	
5	Piercing Connector	Nos.	51	118.40	6038.40	CDB @ 48%	
6	Neutral Connector Type B	Nos.	17	48.84	830.28	CDB @ 48%	
7	Earthing Coil	Nos.	33	245.68	8107.44	CDB @ 48%	
8	No.8 G.I.wire for earthing	Kg.	36	111.00	3996.00	CDB @ 48%	
9	G.I. Nut & Bolts(Assorted size)	Kg.	33	115.44	3809.52	CDB @ 48%	
10	Service Connection Distribution box (8 way)	Nos.	17	5920.00	100640.00	CDB @ 48%	
11	4C X 25sqmm LT XLPE Cable	Mtr.	85	194.08	16496.80	RC	6200006838
12	LT Stay Set	Nos.	8	769.60	6156.80	CDB @ 48%	
13	7/12SWG Stay wire	Kg.	24.64	111.00	2735.04	CDB @ 48%	
14	LT Stay Clamp (1.40 Kg./Pair)	Pair	8	162.80	1302.40	CDB @ 48%	
15	LT Stay Insulator	Nos.	8	44.40	355.20	CDB @ 48%	
16	3x120+ 1x70+ 1 x16 mm2 LT XLPE Aerial bunched Cable	CKm	1.05	350400.00	367920.00	RC	6200004825
D	**SUBTOTAL**	**D=A+B+C**			**692583.88**		
E	Landing Cost on Materials	**E**	18%		124665.10		
F	Stock, Storage & Insurance @ 3% of D=E	**F**	3%		20777.52		
G	**Sub Total (F)**	**G=D+F**			**713361.40**		
H	T&P @ 2% of F	**H**	2%		14267.23		
I	Contingency @ 3% of F	**I**	3%		21400.84		
J	Transportation @ 7.5% of F	**J**	7.5%		53502.10		
K	Erection Charges for PSC Pole (20% OF (A+A*3%))+ GST	**K**	20%		35616.08		
L	Erection Charges for Transformer/Breaker/ Joist Pole (5% of (B+B*3%))+ GST	**L**	5%		0.00		
M	Erection Charges for other materials for line & substations (10% of (C+C*3%))+GST	**M**	10%		66368.60		
N	Sub Total (M)	**N**=E+G+H+I+J +K+L+M			**1029181.35**		
O	**Cost of Civil Works**	**O**			**158187.78**		
1	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	No.	15	7845.64	116507.80	RC	6200006564
2	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	No.	3.7125	7845.64	29126.95	RC	6200006564
3	Stay Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX800mm) = 0.2Cu.mtr(Per Stay)	M3	1.60	7845.64	12553.03	RC	6200006564
P	**Sub Total (O)**	**P=N+O**			**1187369.13**		
Q	**Other Overheads (including supervision charges)**	**Q**	**0%**		0.00		
R	**Sub Total**	**R=P+Q**			**1187369.13**		
S	**Labour Cess @ 1% of S=T**	**S**	**1%**		11873.69		
T	**Grand Total**	**T=R+S**			**1199242.82**		
	or say				**1199243.00**		
				In Cr.	**0.11992**		