



MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.

Proposed Cost Data 2019-20

Item Code No. 0101

Cost data for 33/11 KV, 1x5 MVA Substation (Outdoor)

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
33 KV SIDE					
1	33 KV Lightning Arrestors (Station type)	Set	2	13571.00	27142.00
2	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	50510.00	151530.00
4	33 KV Post Insulator	Nos	3	918.00	2754.00
5	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	121541.00	121541.00
6	Disc Insulator 11 KV 70 KN	Nos	18	344.00	6192.00
7	AAAC 232 mm2	MTR	200	127.40	25480.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	6	603.00	3618.00
9	Earthing complete as per Sheet no.2	Set	1	240980.00	240980.00
10	Power Transformer 33/11 KV, 5 MVA	No	1	3003469.00	3003469.00
11	33 KV P.T.	Nos	3	18876.00	56628.00
12	33 KV C. T. (400-200/1-1-1)	Nos	3	25011.00	75033.00
13	33 KV VCB complete 1600 Amp (O.D.)	Set	1	204195.00	204195.00
14	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56858.00	56858.00
15	33 KV Pin Insulators with G.I. Pins	Nos	6	541.00	3246.00
16	Structure for 33 KV CT & PT as per Sheet no.3	No	1	48071.00	48071.00
17	G.I.Nut Bolts	KG	150	82.90	12435.00
B 11 KV SIDE					
18	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	1	852243.00	852243.00
19	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
20	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	256151.20	256151.20
21	11 kV Pin Insulators with G.I. Pins	No.	12	135.00	1620.00
22	Clamps and Connectors as per Sheet no.5	No.	1	189486.00	189486.00
23	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	213971.20	213971.20
24	S/S Yard lighting as per Sheet no.7	No.	1	189411.00	189411.00
25	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
26	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8.	No.	1	195591.40	195591.40
27	Control cables for S/S as per Sheet no.9	No.	1	85383.45	85383.45
28	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material

6175812.25

1	Transportation on material	4.00%	247032
2	T&P on material cost	1.00%	61758
3	Contingencies on material	2.50%	154395
5	Erection cost on material	5.00%	308791
6	Contractor supervision charges on material	5.00%	308791
7	Insurance , Labour & Finance Cost	3.00%	185274

Service Cost

1266042

Sub-Total

7441854

8	Turnkey Charges	5.00%	372093
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Total

7813946

Civil Works As per Sheet 'C'

No. 1

7233264

Total Cost of Estimate

15047211

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	9946763	7813946
Civil Works As per Sheet 'C'	9219583	7233264
Total Cost of the Estimate	19166346	15047211



Sheet
No.1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	48500.00	96224.00
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	48500.00	25317.00
Total:					121541.00

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
Total:					240980.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 100 mm2	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
Total:					256151.20



Sheet
No. 5

Cost data for Clamps & Connectors at 1x 5 MVA, 3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	189486.00

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 1x5MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 100 mm ²	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	213971.20

Sheet
No.7

Cost data for Yard Lighting of 1 x 5 MVA , 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	12	6300.00	75600.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	12	4815.00	57780.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt.	7	3027.00	21189.00
6	Red Bricks	No.	1000	5.50	5500.00
7	Sand	Cmt.	6	222.00	1332.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	189411.00



Sheet
No. 8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x5 MVA S/S. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	204.00	2040.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	150.00	7500.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	195591.40

Sheet
No - 9

Cost data for Control cable 1 X 5 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

C Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Description	Amount
1	Land Development (As per table A)	242640.00
2	Control room (As per table B) outdoor	2087239.00
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.20
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	100000.00
6	WBM Road (As per table D)	408296.00
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720.00
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0.00
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0.00
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0.00
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091.00
14	Borewell including pumpset and allied accessories. (As per table I)	101071.00
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.80
16	Construction of retaining wall. (As per table K)	731271.97
17	Rain Water Harvesting (As per Table L)	56519.24
18	Culvert (As per Table M)	138225.00
	Total=	7233264.49



Item Code No. 0102

Cost data for 33/11 kV 1 X 10 MVA New S/S(Outdoor)

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	13571.00	27142.00
2	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	50510.00	151530.00
4	33 KV Post Insulator	Nos	3	918.00	2754.00
5	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	121541.00	121541.00
6	Disc Insulator 11 KV 70 KN	Nos	18	344.00	6192.00
7	AAAC 232 mm2	MTR	200	127.40	25480.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	6	603.00	3618.00
9	Earthing complete as per Sheet no.2	Set	1	267210.00	267210.00
10	Power Transformer 33/11 KV, 10 MVA	No	1	4687202.00	4687202.00
11	33 KV P.T.	Nos	3	18876.00	56628.00
12	33 KV C. T. (400-200/1-1-1)	Nos	3	25011.00	75033.00
13	33 KV VCB complete 1600 Amp (O.D.)	Set	1	204195.00	204195.00
14	C&R panel for 33 KV Transformer with Diff. Protection	No	1	62334.00	62334.00
15	33 kV Pin Insulators with G.I. Pins	Nos	6	541.00	3246.00
16	Structure for 33 KV CT & PT as per Sheet no.3	No	1	48071.00	48071.00
17	G.I.Nut Bolts	KG	150	82.90	12435.00
B	11 KV SIDE				
18	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	852243.00	852243.00
19	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
20	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	327608.20	327608.20
21	11 kV Pin Insulators with G.I. Pins	No.	12	135.00	1620.00
22	Clamps and Connectors as per Sheet no.5	No.	1	189486.00	189486.00
23	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	266852.20	266852.20
24	S/S Yard lighting as per Sheet no.7	No.	1	189411.00	189411.00
25	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
26	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8.	No.	1	199541.40	199541.40
27	Control cables for S/S as per Sheet no.9	No.	1	85383.45	85383.45
28	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D Cost of material **8019539.25**

1	Transportation on material	4.00%	320782
2	T&P on material cost	1.00%	80195
3	Contingencies on material	2.50%	200488
5	Erection cost on material	5.00%	400977
6	Contractor supervision charges on material	5.00%	400977
7	Insurance , Labour & Finance Cost	3.00%	240586
	Service Cost		1644006
	Sub-Total		9663545
8	Turnkey Charges	5.00%	483177

Total **10146722**

9 Civil Works As per Sheet 'C' 7233264

Total Cost of Estimate

17379987

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	12916270	10146722
Civil Works As per Sheet 'C'	9219583	7233264
Total Cost of the Estimate	22135853	17379987



Sheet
No.1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x 10 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	48500.00	96224.00
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	48500.00	25317.00
				Total:	121541.00

Sheet
No.2

Cost data for Earthing Work at 1x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	2000	48.50	97000.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1400	15.00	21000.00
4	Salt	Kg.	1400	7.00	9800.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	267210.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x10 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 232 mm2	Rmt.	150	127.40	19110.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.00	12924.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	327608.20



Sheet
No. 5

Cost data for Clamps & Connectors at 1x 10 MVA, 33/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	189486.00

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 1x 10MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 232 mm ²	Rmt.	150	127.40	19110.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	266852.20

Sheet
No.7

Cost data for Yard Lighting of 1 x 10 MVA , 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	12	6300.00	75600.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	12	4815.00	57780.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	7	3027.00	21189.00
6	Red Bricks	No.	1000	5.50	5500.00
7	Sand	Cmt	6	222.00	1332.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	189411.00



Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x10 MVA S/S. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	199541.40

Sheet
No.9

Cost data for Control cable 1 X 10 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

Sheet
No.10

Safety items and T&P in sub-station:

Sr.No.	Description of material	Unit	Qty.	Rate (Rs.)	Amount(Rs.)
1	Safety Items as per the requirement of electrical inspector as under	L.S	1	9500.00	9500.00
	a) First Aid Box				
	b) Shock treatment chart				
	c) Rubber mats 8 mm thick				
	d) 4 Fire buckets with sand & M.S. Hooks / stand				
	e) Helmet				
	f) Hand gloves				
g) 2 Nos. Fire extinguisher					
2	SLD Board 11 KV side	No.	1	750.00	750.00
3	Sub-station Board (Name) with angle stand	No.	2	4000.00	8000.00
4	Danger Board in yard.	No.	10	50.00	500.00
5	Battery Accessories such as hydrometer,cell tester, Acid can, distilled water can,handgloves etc.	Set	1	900.00	900.00
6	2 no.s 8W CFL lamps with one suitable inverter (DC to AC)	Set	1	375.00	375.00
7	Earth tester 200 Amp. 2000 Ohm	No.	1	6300.00	6300.00
8	2.5 / 5 KV Megger (Manual)	No.	1	25000.00	25000.00
9	500 V Megger	No.	1	3500.00	3500.00
10	Digital Tong tester (1000 Amp., 500 V) With associated accessories.	No.	1	350.00	350.00
11	Digital Multi meter (10 Amp)	No.	1	2360.00	2360.00
12	Dicharge rod for 33 KV	Set	1	950.00	950.00
13	Discharge rod for 11 KV	Set	1	950.00	950.00



14	Tool box with ratchet spanner, flat spanners, box spanner, plier, screwdriver, hammer, hacksaw with blades, chisel, files (Standard make)	No.	1	4000.00	4000.00
15	2 Cell torch	No.	2	400.00	800.00
16	3 Cell torch	No.	2	400.00	800.00
17	Aluminium ladder (Adjustable)	No.	1	3600.00	3600.00
18	Emergency Artificial respiration kit	Set	1	1820.00	1820.00
19	Name plate painting for all equipments	LS	1	600.00	600.00
				Total:	71055.00

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640.00
2	Control room (As per table B) outdoor	2087239.00
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.20
4	Sanitary Water supply	0.00
5	Electrification (Lumsun)	100000.00
6	WBM Road (As per table D)	408296.00
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720.00
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0.00
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0.00
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0.00
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091.00
14	Borewell including pumpset and allied accessories. (As per table I)	101071.00
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.80
16	Construction of retaining wall. (As per table K)	731271.97
17	Rain Water Harvesting (As per Table L)	56519.24
18	Culvert (As per Table M)	138225.00
Total=		7233264.49

Item Code No.0103

Cost data for 33/11 kv 2 X 5 MVA New S/S(Outdoor)

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	4	13571.00	54284.00
2	33 KV Isolators with EB (800 A)	Set	2	55190.00	110380.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	50510.00	252550.00
4	33 KV Post Insulator	Nos	6	918.00	5508.00
5	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	194970.00	194970.00
6	Disc Insulator 11 KV 70 KN	Nos	36	344.00	12384.00
7	AAAC 232 mm2	MTR	200	127.40	25480.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	603.00	7236.00
9	Earthing complete as per Sheet no.2	Set	2	240980.00	481960.00
10	Power Transformer 33/11 KV, 5 MVA	No	2	3003469.00	6006938.00
11	33 KV P.T.	Nos	3	18876.00	56628.00
12	33 kv C. T. (400-200/1-1-1)	Nos	6	25011.00	150066.00
13	33 KV VCB complete 1600 Amp (O.D.)	Set	2	204195.00	408390.00
14	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	2	56858.00	113716.00
15	33 kv Pin Insulators with G.I. Pins	Nos	12	541.00	6492.00
16	Structure for 33 KV CT & PT as per Sheet no.3	No	2	48071.00	96142.00
17	G.I.Nut Bolts	KG	150	82.90	12435.00
B	11 KV SIDE				
18	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	2	852243.00	1704486.00
19	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	274659.20	549318.40
20	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
21	11 kv Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
22	Clamps and Connectors as per Sheet no.5	No.	1	251340.00	251340.00



23	Structure for 11 KV Main Bus as per Sheet no.6	No.	2	213971.20	427942.40
24	S/S Yard lighting as per Sheet no.7	No.	1	215879.00	215879.00
25	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
26	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	199541.40	199541.40
27	Control cables for S/S as per Sheet no.9	No.	1	171605.90	171605.90
28	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D Cost of material **11617773.10**

1	Transportation on material	4.00%	464711
2	T&P on material cost	1.00%	116178
3	Contingencies on material	2.50%	290444
5	Erection cost on material	5.00%	580889
6	Contractor supervision charges on material	5.00%	580889
7	Insurance , Labour & Finance Cost	3.00%	348533
Service Cost			2381643
Sub-Total			13999417
8	Turnkey Charges	5.00%	699971

Total **14699387**

9 Civil Works As per Sheet 'C' No. 1 7849000

Total Cost of Estimate **22548388**

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	18711585	14699387
Civil Works As per Sheet 'C'	10004405	7849000
Total Cost of the Estimate	28715991	22548388

Sheet
No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 2x 5 MVA, 33/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
				Total:	194970.00

Sheet
No.2

Cost data for Earthing Work at 2x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T.of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	240980.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 2x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00



5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	9254.00	74032.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 100 mm2	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	274659.20

Sheet
No. 5

Cost data for Clamps & Connectors at 2x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	251340.00

Sheet
No- 6

Cost data for structure of 11 kV Main Bus at 2 X 5 MVA,33/11 kV Sub-Station

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 100 mm2	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	213971.20



Sheet
No.7

Cost data for Yard Lighting of 2X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cum	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	199541.40

Sheet
No.9

Cost data for Control cable 2 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C

Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640.00
2	Control room (As per table B) outdoor	2087239.00
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.20
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	100000.00
6	WBM Road (As per table D)	408296.00
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720.00



10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	615735.90	
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0	
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0	
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091.00	
14	Borewell including pumpset and allied accessories. (As per table I)	101071.00	
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.80	
16	Construction of retaining wall. (As per table K)	731271.97	
17	Rain Water Harvesting (As per Table L)	56519.24	
18	Culvert (As per Table M)	138225.00	
	Total=	7849000.39	

Item Code No. 0104					
Cost data for 33/11 kV 2 X 10 MVA New S/S(Outdoor)					
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	4	13571.00	54284.00
2	33 KV Isolators with EB (800 A)	Set	2	55190.00	110380.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	50510.00	252550.00
4	33 KV Post Insulator	Nos	6	918.00	5508.00
5	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	194970.00	194970.00
6	Disc Insulator 11 KV 70 KN	Nos	36	344.00	12384.00
7	AAAC 232 mm2	MTR	200	127.40	25480.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	603.00	7236.00
9	Earthing complete as per Sheet no.2	Set	2	240980.00	481960.00
10	Power Transformer 33/11 KV, 10 MVA	No	2	4687202.00	9374404.00
11	33 KV P.T.	Nos	3	18876.00	56628.00
12	33 KV C. T. (400-200/1-1-1)	Nos	6	25011.00	150066.00
13	33 KV VCB complete 1600 Amp (O.D.)	Set	2	204195.00	408390.00
14	C&R panel for 33 KV Transformer with Diff. Protection	No	2	62334.00	124668.00
16	33 KV Pin Insulators with G.I. Pins	Nos	12	541.00	6492.00
17	Structure for 33 KV CT & PT as per Sheet no.3	No	2	48071.00	96142.00
18	G.I.Nut Bolts	KG	150	82.90	12435.00
B	11 KV SIDE				
19	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	2	852243.00	1704486.00
20	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	346116.20	692232.40
21	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
22	11 kV Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
23	Clamps and Connectors as per Sheet no.5	No.	1	251340.00	251340.00
24	Structure for 11 KV Main Bus as per Sheet no.6	No.	2	266852.20	533704.40
25	S/S Yard lighting as per Sheet no.7	No.	1	216090.00	216090.00
26	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
27	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	199541.40	199541.40
28	Control cables for S/S as per Sheet no.9	No.	1	171605.90	171605.90
29	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D	Cost of material		15245078.10
1	Transportation on material	4.00%	609803
2	T&P on material cost	1.00%	152451
3	Contingencies on material	2.50%	381127
5	Erection cost on material	5.00%	762254
6	Contractor supervision charges on material	5.00%	762254
7	Insurance , Labour & Finance Cost	3.00%	457352
	Service Cost		3125241
	Sub-Total		18370319
8	Turnkey Charges	5.00%	918516
	Total		19288835



9 Civil Works As per Sheet 'C'

No. 1

7874091

Total Cost of Estimate

27162926

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	24553723	19288835
Civil Works As per Sheet 'C'	10036387	7874091
Total Cost of the Estimate	34590109	27162926

Sheet
No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 2x 10 MVA, 33/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
Total:					194970.00

Sheet
No.2

Cost data for Earthing Work at 2x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
Total:					240980.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 2x 10 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	9254.00	74032.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for AAC232 sq.mm.	Nos.	36	603.00	21708.00
8	11 kv Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 232 mm2	Rmt.	150	127.40	19110.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00



15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.00	12924.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	346116.20

Sheet
No. 5

Cost data for Clamps & Connectors at 2x 10 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	251340.00

Sheet
No-6

Cost data for structure of 11 kV Main Bus at 2 X 10 MVA,33/11 kV Sub-Station

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 232 mm2	Rmt.	150	127.40	19110.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	266852.20

Sheet
No.7

Cost data for Yard Lighting of 2X 10 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	Armoured Copper control cable 4C X 2.5 Sq mm	Mtr.	250	87.60	21900.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Mtr.	100	55.11	5511.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cmt	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	216090.00

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 10 MVA, 33/11 KV S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00



2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	199541.40

Sheet
No.9

Cost data for Control cable 2 X 10 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640.00
2	Control room (As per table B) outdoor	2087239.00
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.20
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	100000.00
6	WBM Road (As per table D)	408296.00
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720.00
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	615735.90
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0.00
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	25090.97
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091.00
14	Borewell including pumpset and allied accessories. (As per table I)	101071.00
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.80
16	Construction of retaining wall. (As per table K)	731271.97
17	Rain Water Harvesting (As per Table L)	56519.24
18	Culvert (As per Table M)	138225.00
	Total=	7874091.36

Item Code No. 0105

Cost data for 33/11 kV 1 X 5 MVA & 1 X 10 MVA New S/S(Outdoor)

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				



1	33 KV Lightning Arrestors (Station type)	Set	4	13571.00	54284.00
2	33 KV Isolators with EB (800 A)	Set	2	55190.00	110380.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	50510.00	252550.00
4	33 KV Post Insulator	Nos	6	918.00	5508.00
5	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	194970.00	194970.00
6	Disc Insulator 11 KV 70 KN	Nos	36	344.00	12384.00
7	AAAC 232 mm2	MTR	200	127.40	25480.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	603.00	7236.00
9	Earthing complete as per Sheet no.2	Set	2	240980.00	481960.00
10	Power Transformer 33/11 KV, 5 MVA	No	1	3003469.00	3003469.00
11	Power Transformer 33/11 KV, 10 MVA	No	1	4687202.00	4687202.00
12	33 KV P.T.	Nos	3	18876.00	56628.00
13	33 kv C. T. (400-200/1-1-1)	Nos	6	25011.00	150066.00
14	33 KV VCB complete 1600 Amp (O.D.)	Set	2	204195.00	408390.00
15	C&R panel for 33 KV Transformer with Diff. Protection	No	1	62334.00	62334.00
16	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56858.00	56858.00
17	33 kv Pin Insulators with G.I. Pins	Nos	12	541.00	6492.00
18	Structure for 33 KV CT & PT as per Sheet no.3	No	2	48071.00	96142.00
19	G.I.Nut Bolts	KG	150	82.90	12435.00
B	11 KV SIDE				
20	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	2	852243.00	1704486.00
21	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	344111.20	688222.40
22	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
23	11 kv Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
24	Clamps and Connectors as per Sheet no.5	No.	1	251340.00	251340.00
25	Structure for 11 KV Main Bus as per Sheet no.6	No.	2	293528.20	587056.40
26	S/S Yard lighting as per Sheet no.7	No.	1	215879.00	215879.00
27	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
28	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	199541.40	199541.40
29	Control cables for S/S as per Sheet no.9	No.	1	171605.90	171605.90
30	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D Cost of material 13605000.10

1	Transportation on material	4.00%	544200
2	T&P on material cost	1.00%	136050
3	Contingencies on material	2.50%	340125
5	Erection cost on material	5.00%	680250
6	Contractor supervision charges on material	5.00%	680250
7	Insurance , Labour & Finance Cost	3.00%	408150
	Service Cost		2789025
	Sub-Total		16394025
8	Turnkey Charges	5.00%	819701

Total 17213726

9 Civil Works As per Sheet 'C' No. 1 7874091

Total Cost of Estimate 25087818

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	21912213	17213726
Civil Works As per Sheet 'C'	10036387	7874091
Total Cost of the Estimate	31948600	25087818

Sheet No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 1x 5 MVA & 1x10 MVA 33/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
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1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
				Total:	194970.00

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA & 1x 10 MVA 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	240980.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA & 1x10 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
10	Earthing Sets H.T	Sets	3	342.00	1026.00
11	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
12	AAAC 100 mm2	Rmt.	150	51.82	7773.00
13	AAAC 232 mm2	Rmt.	150	127.40	19110.00
14	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
15	G.I.Nut Bolts	Kg.	50	82.90	4145.00
16	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
17	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
d)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
18	Miscellaneous material	LS	1	475.00	475.00
				Total:	344111.20

Sheet
No. 5

Cost data for Clamps & Connectors at 1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00



b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	251340.00

Sheet
No- 6

Cost data for structure of 11 kV Main Bus at1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
7	Strain Hardware for AAAC232 sq.mm.	Nos.	37	603.00	22311.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 100 mm2	Rmt.	150	51.82	7773.00
12	AAAC 232 mm2	Rmt.	150	127.40	19110.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	G.I.Nut Bolts	Kg.	50	82.90	4145.00
15	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	12	559.00	6708.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
18	Miscellaneous material	LS	1	475.00	475.00
				Total:	293528.20

Sheet
No.7

Cost data for Yard Lighting of 2X 5 MVA1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cum	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00



12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	199541.40

Sheet
No.9

Cost data for Control cable 1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640.00
2	Control room (As per table B) outdoor	2087239.00
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.20
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	100000.00
6	WBM Road (As per table D)	408296.00
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720.00
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	615735.90
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0.00
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	25090.97
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091.00
14	Borewell including pumpset and allied accessories. (As per table I)	101071.00
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.80
16	Construction of retaining wall. (As per table K)	731271.97
17	Rain Water Harvesting (As per Table L)	56519.24
18	Culvert (As per Table M)	138225.00
Total=		7874091.36

Item Code No. 0101A

Cost data for 33/11 KV, 1x5 MVA Substation (Outdoor) with RSJ pole structure.

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	13571.00	27142.00
2	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	50510.00	151530.00
4	33 KV Post Insulator	Nos	3	918.00	2754.00
5	RSJ 125x70, 8 m long	Nos	8	4683.00	37464.00
6	MS Channel 100x50x6 mm	Kg.	1650	51.80	85470.00
7	M.S. Angel(75 X 40 mm)	Kg.	100	51.80	5180.00
8	M.S. Flats(50 X 10mm)	Kg.	80	48.50	3880.00
9	Disc Insulator 11 KV 70 KN	Nos	18	344.00	6192.00
10	AAAC 232 mm2	MTR	200	127.40	25480.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	6	603.00	3618.00
12	Earthing complete as per Sheet no.1	Set	1	240980.00	240980.00



13	Power Transformer 33/11 KV, 5 MVA	No	1	3003469.00	3003469.00
14	33 KV P.T.	Nos	3	18876.00	56628.00
15	33 kv C. T. (400-200/1-1-1)	Nos	3	25011.00	75033.00
16	33 KV VCB complete 1600 Amp (O.D.)	Set	1	204195.00	204195.00
17	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56858.00	56858.00
18	33 kv Pin Insulators with G.I. Pins	Nos	6	541.00	3246.00
19	Structure for 33 KV CT & PT as per Sheet no.2	No	1	48071.00	48071.00
20	G.I.Nut Bolts	KG	150	82.90	12435.00
22	Marshalling Box	Nos.	1	4284.00	4284.00
B	11 KV SIDE				
21	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	1	852243.00	852243.00
22	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
23	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	256151.20	256151.20
24	11 kv Pin Insulators with G.I. Pins	No.	12	135.00	1620.00
25	Clamps and Connectors as per Sheet no.4	No.	1	189486.00	189486.00
26	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	195911.20	195911.20
27	S/S Yard lighting as per Sheet no.6	No.	1	189411.00	189411.00
28	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
29	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	195591.40	195591.40
30	Control cables for S/S as per Sheet no.8	No.	1	85383.45	85383.45
31	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material

6172489.25

1	Transportation on material	4.00%	246900
2	T&P on material cost	1.00%	61725
3	Contingencies on material	2.50%	154312
5	Erection cost on material	5.00%	308624
6	Contractor supervision charges on material	5.00%	308624
7	Insurance, Labour & Finance Cost	3.00%	185175

Service Cost

1265360

Sub-Total

7437850

8	Turnkey Charges	5.00%	371892
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Total

7809742

9	Civil Works As per Sheet 'C'	No.	1	7233264
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Total Cost of Estimate

15043007

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	9941411	7809742
Civil Works As per Sheet 'C'	9219583	7233264
Total Cost of the Estimate	19160994	15043007

Sheet
No.1

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	240980.00

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 1x5 MVA 33/11 KV S/S



Cost data of Structure for 33 KV CT & T/F at 1x5 MVA, 33/11 KV Subn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 100 mm2	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	256151.20

Sheet
No. 4

Cost data for Clamps & Connectors at 1x 5 MVA, 3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	189486.00

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 1x5MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
1	RSJ 125x70, 8 m long	Nos.	8	4683.00	37464.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 100 mm2	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00



14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	195911.20

Sheet
No.6

Cost data for Yard Lighting of 1 x 5 MVA , 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	12	6300.00	75600.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	12	4815.00	57780.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	7	3027.00	21189.00
6	Red Bricks	No.	1000	5.50	5500.00
7	Sand	Cmt	6	222.00	1332.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	189411.00

Sheet
No.7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x5 MVA S/S. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	204.00	2040.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	150.00	7500.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	195591.40

Sheet
No.8

Cost data for Control cable 1 X 5 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640.00
2	Control room (As per table B) outdoor	2087239.00
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.20
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	100000.00
6	WBM Road (As per table D)	408296.00



7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28	
8	Metal Spreading (As per table F)	141360.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720.00	
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0.00	
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0.00	
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0.00	
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091.00	
14	Borewell including pumpset and allied accessories. (As per table I)	101071.00	
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.80	
16	Construction of retaining wall. (As per table K)	731271.97	
17	Rain Water Harvesting (As per Table L)	56519.24	
18	Culvert (As per Table M)	138225.00	
	Total=	7233264.49	

Item Code No. 0102A					
Cost data for 33/11 kV 1 X 10 MVA New S/S(Outdoor) with RSJ pole structure					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	13571.00	27142.00
2	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	50510.00	151530.00
4	33 KV Post Insulator	Nos	3	918.00	2754.00
5	RSJ 125x70, 8 m long	Nos	8	4683.00	37464.00
6	MS Channel 100x50x6 mm	Kg.	1650	51.80	85470.00
7	M.S. Angel(75 X 40 mm)	Kg.	100	51.80	5180.00
8	M.S. Flats(50 X 10mm)	Kg.	80	48.50	3880.00
9	Disc Insulator 11 KV 70 KN	Nos	18	344.00	6192.00
10	AAAC 232 mm2	MTR	200	127.40	25480.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	6	603.00	3618.00
12	Earthing complete as per Sheet no.1	Set	1	267210.00	267210.00
13	Power Transformer 33/11 KV, 10 MVA	No	1	4687202.00	4687202.00
14	33 KV P.T.	Nos	3	18876.00	56628.00
15	33 kv C. T. (400-200/1-1-1)	Nos	3	25011.00	75033.00
16	33 KV VCB complete 1600 Amp (O.D.)	Set	1	204195.00	204195.00
17	C&R panel for 33 KV Transformer with Diff. Protection	No	1	62334.00	62334.00
18	33 kv Pin Insulators with G.I. Pins	Nos	6	541.00	3246.00
19	Structure for 33 KV CT & PT as per Sheet no.2	No	1	48071.00	48071.00
20	G.I.Nut Bolts	KG	150	82.90	12435.00
21	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
22	Marshalling Box	Nos.	1	4284.00	4284.00
B	11 KV SIDE				
22	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	852243.00	852243.00
23	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
24	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	327608.20	327608.20
25	11 kv Pin Insulators with G.I. Pins	No.	12	135.00	1620.00
26	Clamps and Connectors as per Sheet no.4	No.	1	189486.00	189486.00
27	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	248792.20	248792.20
28	S/S Yard lighting as per Sheet no.6	No.	1	189411.00	189411.00
29	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
30	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	199541.40	199541.40
31	Control cables for S/S as per Sheet no.8	No.	1	85383.45	85383.45
32	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D Cost of material

8020416.25

1	Transportation on material	4.00%	320817
2	T&P on material cost	1.00%	80204
3	Contingencies on material	2.50%	200510
5	Erection cost on material	5.00%	401021



6	Contractor supervision charges on material	5.00%	401021
7	Insurance , Labour & Finance Cost	3.00%	240612
	Service Cost		1644185
	Sub-Total		9664602
8	Turnkey Charges	5.00%	483230
	Total		10147832
9	Civil Works As per Sheet 'C'	No. 1	7233264
	Total Cost of Estimate		17381096

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	12917682	10147832
Civil Works As per Sheet 'C'	9219583	7233264
Total Cost of the Estimate	22137265	17381096

Sheet
No.1

Cost data for Earthing Work at 1x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	2000	48.50	97000.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1400	15.00	21000.00
4	Salt	Kg.	1400	7.00	9800.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
	Total:				267210.00

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 1x10 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
	Total:				48071.00

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 232 mm2	Rmt.	150	127.40	19110.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				



a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.00	12924.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	327608.20

Sheet
No. 4

Cost data for Clamps & Connectors at 1x 10 MVA,
3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	189486.00

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 1x 10MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 125x70, 8 m long	Nos.	8	4683.00	37464.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 232 mm2	Rmt.	150	127.40	19110.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	248792.20

Sheet
No.6

Cost data for Yard Lighting of 1 x 10 MVA , 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	12	6300.00	75600.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	12	4815.00	57780.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt.	7	3027.00	21189.00
6	Red Bricks	No.	1000	5.50	5500.00
7	Sand	Cmt.	6	222.00	1332.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	189411.00

Sheet
No.7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x10 MVA S/S. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00



2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	199541.40

Sheet
No.8

Cost data for Control cable 1 X 10 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640
2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D)	408296
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091
14	Borewell including pumpset and allied accessories. (As per table I)	101071
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.804
16	Construction of retaining wall. (As per table K)	731271.97
17	Rain Water Harvesting (As per Table L)	56519.24
18	Culvert (As per Table M)	138225.00
	Total=	7233264.49

Item Code No.0103A

Cost data for 33/11 kV 2 X 5 MVA New S/S(Outdoor) with RSJ pole structure

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	4	13571.00	54284.00
2	33 KV Isolators with EB (800 A)	Set	2	55190.00	110380.00



3	33 KV Isolators without EB (800 Amp.)	Set	5	50510.00	252550.00
4	33 KV Post Insulator	Nos	6	918.00	5508.00
5	RSJ 125x70, 8 m long	Nos	16	4683.00	74928.00
6	MS Channel 100x50x6 mm	Kg.	3300	51.80	170940.00
7	M.S. Angel(75 X 40 mm)	Kg.	200	51.80	10360.00
8	M.S. Flats(50 X 10mm)	Kg.	160	48.50	7760.00
9	Disc Insulator 11 KV 70 KN	Nos	36	344.00	12384.00
10	AAAC 232 mm2	MTR	200	127.40	25480.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	603.00	7236.00
12	Earthing complete as per Sheet no.1	Set	2	240980.00	481960.00
13	Power Transformer 33/11 KV, 5 MVA	No	2	3003469.00	6006938.00
14	33 KV P.T.	Nos	3	18876.00	56628.00
15	33 KV C. T. (400-200/1-1-1)	Nos	6	25011.00	150066.00
16	33 KV VCB complete 1600 Amp (O.D.)	Set	2	204195.00	408390.00
17	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	2	56858.00	113716.00
18	33 KV Pin Insulators with G.I. Pins	Nos	12	541.00	6492.00
19	Structure for 33 KV CT & PT as per Sheet no.2	No	2	48071.00	96142.00
20	G.I.Nut Bolts	KG	150	82.90	12435.00
21	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
22	Marshalling Box	Nos.	2	4284.00	8568.00
B	11 KV SIDE				
22	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	2	852243.00	1704486.00
23	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	2	274659.20	549318.40
24	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
25	11 kV Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
26	Clamps and Connectors as per Sheet no.4	No.	1	251340.00	251340.00
27	Structure for 11 KV Main Bus as per Sheet no.5	No.	2	195911.20	391822.40
28	S/S Yard lighting as per Sheet no.6	No.	1	215879.00	215879.00
29	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
30	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	199541.40	199541.40
31	Control cables for S/S as per Sheet no.8	No.	1	171605.90	171605.90
32	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D Cost of material 11663439.10

1	Transportation on material	4.00%	466538
2	T&P on material cost	1.00%	116634
3	Contigencies on material	2.50%	291586
5	Erection cost on material	5.00%	583172
6	Contractor supervision charges on material	5.00%	583172
7	Insurance , Labour & Finance Cost	3.00%	349903
	Service Cost		2391005
	Sub-Total		14054444
8	Turnkey Charges	5.00%	702722

Total 14757166

9 Civil Works As per Sheet 'C' No. 1 7849000

Total Cost of Estimate 22606167

Particulars	Tender/ Estimate Amount	
	DPR Amount	Tender/ Estimate Amount
Cost with overheads on Material	18785135	14757166
Civil Works As per Sheet 'C'	10004405	7849000
Total Cost of the Estimate	28789541	22606167

Sheet No.1

Cost data for Earthing Work at 2x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
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1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	240980.00

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 2x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	9254.00	74032.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 100 mm ²	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	274659.20

Sheet
No. 4

Cost data for Clamps & Connectors at 2x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	251340.00

Sheet
No- 5

Cost data for structure of 11 KV Main Bus at 2 X 5 MVA,33/11 KV Sub-Station

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 125x70, 8 m long	Nos.	8	4683.00	37464.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00



3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 100 mm2	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	195911.20

Sheet
No.6

Cost data for Yard Lighting of 2X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cum	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	199541.40

Sheet
No.8

Cost data for Control cable 2 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90



C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640
2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D)	408296
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	615735.9
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091
14	Borewell including pumpset and allied accessories. (As per table I)	101071
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.804
16	Construction of retaining wall. (As per table K)	731271.97
17	Rain Water Harvesting (As per Table L)	56519.24
18	Culvert (As per Table M)	138225
	Total=	7849000.39

Item Code No. 0104A					
Cost data for 33/11 kV 2 X 10 MVA New S/S(Outdoor) with RSJ pole structure					
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	4	13571.00	54284.00
2	33 KV Isolators with EB (800 A)	Set	2	55190.00	110380.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	50510.00	252550.00
4	33 KV Post Insulator	Nos	6	918.00	5508.00
5	RSJ 125x70, 8 m long	Nos	16	4683.00	74928.00
6	MS Channel 100x50x6 mm	Kg.	3300	51.80	170940.00
7	M.S. Angel(75 X 40 mm)	Kg.	200	51.80	10360.00
8	M.S. Flats(50 X 10mm)	Kg.	160	48.50	7760.00
9	Disc Insulator 11 KV 70 KN	Nos	36	344.00	12384.00
10	AAAC 232 mm2	MTR	200	127.40	25480.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	603.00	7236.00
12	Earthing complete as per Sheet no.1	Set	2	240980.00	481960.00
13	Power Transformer 33/11 KV, 10 MVA	No	2	4687202.00	9374404.00
14	33 KV P.T.	Nos	3	18876.00	56628.00
15	33 kV C. T. (400-200/1-1-1)	Nos	6	25011.00	150066.00
16	33 KV VCB complete 1600 Amp (O.D.)	Set	2	204195.00	408390.00
17	C&R panel for 33 KV Transformer with Diff. Protection	No	2	62334.00	124668.00
18	33 kV Pin Insulators with G.I. Pins	Nos	12	541.00	6492.00
19	Structure for 33 KV CT & PT as per Sheet no.2	No	2	48071.00	96142.00
20	G.I.Nut Bolts	KG	150	82.90	12435.00
21	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
22	Marshalling Box	Nos.	4	4284.00	17136.00
B	11 KV SIDE				
23	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	2	852243.00	1704486.00
24	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	2	346116.20	692232.40
25	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
26	11 kV Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
27	Clamps and Connectors as per Sheet no.4	No.	1	251340.00	251340.00
28	Structure for 11 KV Main Bus as per Sheet no.5	No.	2	248792.20	497584.40
29	S/S Yard lighting as per Sheet no.6	No.	1	215879.00	215879.00
30	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00



31	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	199541.40	199541.40
32	Control cables for S/S as per Sheet no.8	No.	1	171605.90	171605.90
33	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D Cost of material 15299101.10

1	Transportation on material	4.00%	611964
2	T&P on material cost	1.00%	152991
3	Contingencies on material	2.50%	382478
5	Erection cost on material	5.00%	764955
6	Contractor supervision charges on material	5.00%	764955
7	Insurance , Labour & Finance Cost	3.00%	458973

Service Cost 3136316

Sub-Total 18435417

8	Turnkey Charges	5.00%	921771
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Total 19357188

9	Civil Works As per Sheet 'C'	No.	1	7874091
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Total Cost of Estimate 27231279

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	24640732	19357188
Civil Works As per Sheet 'C'	10036387	7874091
Total Cost of the Estimate	34677119	27231279

Sheet
No.1

Cost data for Earthing Work at 2x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	240980.00

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 2x 10 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	9254.00	74032.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00



9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 232 mm2	Rmt.	150	127.40	19110.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.00	12924.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	346116.20

Sheet
No. 4

Cost data for Clamps & Connectors at 2x 10 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
			Total:		251340.00

Sheet
No-5

Cost data for structure of 11 kv Main Bus at 2 X 10 MVA,33/11 kv Sub-Station

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 125x70, 8 m long	Nos.	8	4683.00	37464.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
7	11 kv Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 232 mm2	Rmt.	150	127.40	19110.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscellaneous material	LS	1	475.00	475.00
			Total:		248792.20

Sheet
No.6

Cost data for Yard Lighting of 2X 10 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cmt	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
			Total:		215879.00

Sheet
No.7



Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 10 MVA, 33/11 KV S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	199541.40

Sheet
No.8

Cost data for Control cable 2 X 10 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640
2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D)	408296
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	615735.9
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	25090.97
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091
14	Borewell including pumpset and allied accessories. (As per table I)	101071
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.804
16	Construction of retaining wall. (As per table K)	731271.97
17	Rain Water Harvesting (As per Table L)	56519.24
18	Culvert (As per Table M)	138225
	Total=	7874091.36

Item Code No. 0105A

Cost data for 33/11 kv 1 X 5 MVA & 1 X 10 MVA New S/S(Outdoor) with RSJ pole structure



Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	4	13571.00	54284.00
2	33 KV Isolators with EB (800 A)	Set	2	55190.00	110380.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	50510.00	252550.00
4	33 KV Post Insulator	Nos	6	918.00	5508.00
5	RSJ 125x70, 8 m long	Nos	16	4683.00	74928.00
6	MS Channel 100x50x6 mm	Kg.	3300	51.80	170940.00
7	M.S. Angel(75 X 40 mm)	Kg.	200	51.80	10360.00
8	M.S. Flats(50 X 10mm)	Kg.	160	48.50	7760.00
9	Disc Insulator 11 KV 70 KN	Nos	36	344.00	12384.00
10	AAAC 232 mm2	MTR	200	127.40	25480.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	603.00	7236.00
12	Earthing complete as per Sheet no.1	Set	2	240980.00	481960.00
13	Power Transformer 33/11 KV, 5 MVA	No	1	3003469.00	3003469.00
14	Power Transformer 33/11 KV, 10 MVA	No	1	4687202.00	4687202.00
15	33 KV P.T.	Nos	3	18876.00	56628.00
16	33 kv C. T. (400-200/1-1-1)	Nos	6	25011.00	150066.00
17	33 KV VCB complete 1600 Amp (O.D.)	Set	2	204195.00	408390.00
18	C&R panel for 33 KV Transformer with Diff. Protection	No	1	62334.00	62334.00
19	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56858.00	56858.00
20	33 kv Pin Insulators with G.I. Pins	Nos	12	541.00	6492.00
21	Structure for 33 KV CT & PT as per Sheet no.2	No	2	48071.00	96142.00
22	G.I.Nut Bolts	KG	150	82.90	12435.00
23	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
B	11 KV SIDE				
24	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	2	852243.00	1704486.00
25	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	2	344111.20	688222.40
26	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
27	11 kv Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
28	Clamps and Connectors as per Sheet no.4	No.	1	287052.00	287052.00
29	Structure for 11 KV Main Bus as per Sheet no.5	No.	2	274865.20	549730.40
30	S/S Yard lighting as per Sheet no.6	No.	1	215879.00	215879.00
31	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
32	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	199541.40	199541.40
33	Control cables for S/S as per Sheet no.8	No.	1	171605.90	171605.90
34	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D Cost of material 13676604.10

1	Transportation on material	4.00%	547064
2	T&P on material cost	1.00%	136766
3	Contingencies on material	2.50%	341915
5	Erection cost on material	5.00%	683830
6	Contractor supervision charges on material	5.00%	683830
7	Insurance , Labour & Finance Cost	3.00%	410298

Service Cost 2803704

Sub-Total 16480308

8 Turnkey Charges 5.00% 824015

Total 17304323

8 Civil Works As per Sheet 'C' No. 1 7874091

Total Cost of Estimate 25178415

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	22027539	17304323
Civil Works As per Sheet 'C'	10036387	7874091
Total Cost of the Estimate	32063925	25178415



Cost data for Earthing Work at 1x 5 MVA & 1x 10 MVA 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	240980.00

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 1x5 MVA & 1x10 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
10	Earthing Sets H.T	Sets	3	342.00	1026.00
11	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
12	AAAC 232 mm2	Rmt.	150	127.40	19110.00
13	AAAC 100 mm2	Rmt.	150	51.82	7773.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	G.I.Nut Bolts	Kg.	50	82.90	4145.00
15	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
16	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
b)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
19	Miscellaneous material	LS	1	475.00	475.00
				Total:	344111.20

Sheet
No. 4

Cost data for Clamps & Connectors at 1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	36	992.00	35712.00
3	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00
4	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
5	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
6	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
7	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	287052.00



Sheet
No- 5

Cost data for structure of 11 kV Main Bus at1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 125x70, 8 m long	Nos.	8	4683.00	37464.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for Dog.0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 232 mm ²	Rmt.	150	127.40	19110.00
12	AAAC 100 mm ²	Rmt.	150	51.82	7773.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	G.I.Nut Bolts	Kg.	50	82.90	4145.00
15	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
b)	DOG TO DOG or equivalent AAAC	Nos.	12	559.00	6708.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	274865.20

Sheet
No.6

Cost data for Yard Lighting of 2X 5 MVA1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt.	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cum	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	199541.40

Sheet
No.8

Cost data for Control cable 1x5 MVA & 1x10 MVA 33/11 KV S/S



Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640
2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D)	408296
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	615735.9
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	25090.97
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091
14	Borewell including pumpset and allied accessories. (As per table I)	101071
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.804
16	Construction of retaining wall. (As per table K)	731271.97
17	Rain Water Harvesting (As per Table L)	56519.24
18	Culvert (As per Table M)	138225
	Total=	7874091.36

Item Code No. 0101B

Cost data for 33/22 kv 1 X 5 MVA New S/S(Outdoor)

Sr.No	Description	Unit	Qty.	Rate	Amount
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2.00	13571.00	27142.00
2	33 KV Isolators with EB (800 A)	Set	1.00	55190.00	55190.00
3	33 KV Isolators without EB (800 Amp.)	Set	3.00	50510.00	151530.00
4	33 KV Post Insulator	No	3.00	918.00	2754.00
5	Disc Insulator 11 KV 70 KN	No	18.00	344.00	6192.00
6	AAAC 232 mm2	Rmt	200.00	127.40	25480.00
7	Strain Hardware for AAAC232 sq.mm.	Set	6.00	603.00	3618.00
8	Power Transformer 33/22 KV 5 MVA	No	1.00	3207040.00	3207040.00
9	33 KV P.T.	No	3.00	18876.00	56628.00
10	33 KV C. T. (400-200/1-1-1)	No	3.00	25011.00	75033.00
11	33 KV VCB complete 1600 Amp (O.D.)	No	1.00	204195.00	204195.00
12	C&R panel for 33 KV Transformer with Diff. Protection	Set	1.00	62334.00	62334.00
13	Control C&R Panel 22 KV for feeder with accessories.	Set	1	75834.00	75834.00
14	33 kv Pin Insulators with G.I. Pins	No	6.00	541.00	3246.00
15	G.I.Nut Bolts	Kg	150.00	82.90	12435.00
16	Marshalling Box	No	2.00	4284.00	8568.00
17	Gantry Structure/Steel section for 33 KV Bus as per Table No.1	Nos	1.00	121541.00	121541.00
18	Earthing complete as per Table No.2	Set	1.00	430060.00	430060.00
19	Structure for 33 KV CT & PT as per Table No.3	No	1.00	48071.00	48071.00
B	22 KV SIDE				
20	22 kv 500 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1.00	1290945.00	1290945.00
21	22 KV Lightning Arrestors (Station type)	Set	1.00	11884.00	11884.00
22	22 kv Pin Insulators with G.I. Pins	No	12.00	336.00	4032.00



23	AC Distribution Board 'B' type	No	1.00	24325.00	24325.00
24	Battery set 30 Volt, 100 AH with Battery charger	Set	1.00	72000.00	72000.00
25	Take off structure for 3 outgoing feeder as per Table No.4	No.	1.00	300137.20	300137.20
26	Clamps and Connectors as per TableNo.5	No.	1.00	189486.00	189486.00
27	Structure for 22 KV Main Bus as per Table No.6	No.	1.00	242336.20	242336.20
28	S/S Yard lighting as per Table No.7	No.	1.00	215879.00	215879.00
29	22/0.43 KV x 100 KVA station Transformer as per Table No.8.	No.	1.00	305367.40	305367.40
30	Control cables for S/S as per Table No.9	No.	1.00	171605.90	171605.90

Cost of material **7404888.70**

1	Transportation on material	4.00%	296196
2	T&P on material cost	1.00%	74049
3	Contingencies on material	2.50%	185122
5	Erection cost on material	5.00%	370244
6	Contractor supervision charges on material	5.00%	370244
7	Insurance , Labour & Finance Cost	3.00%	222147

Service Cost **1518002**

Sub-Total **8922891**

8	Turnkey Charges	5.00%	446145
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Total **9369035**

9	Civil Works As per Sheet 'C'	No.	1	7233264
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Total Cost of Estimate **16602300**

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	11926314	9369035
Civil Works As per Sheet 'C'	9219583	7233264
Total Cost of the Estimate	21145897	16602300

Sheet
No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 1x5 MVA 33/22 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	48500.00	96224.00
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	48500.00	25317.00
Total:					121541.00

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA at 33/22 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	2500	48.50	121250.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	44	6300.00	277200.00
3	Coal	Kg.	1400	15.00	21000.00
4	Salt	Kg.	1400	7.00	9800.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
Total:					430060.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1 x 5 MVA, 33/22 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00

Total:	48071.00
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Sheet
No : 4

Cost data for Take off structure for 22 KV Feeders 3 outlets at 1x 5 MVA,33/22KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	22KV A.B.Switch, 400 A	Nos.	3	14447.00	43341.00
6	Disc Insulator 11 KV 70 KN	Nos.	72	344.00	24768.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	322.00	3864.00
8	22 kV Pin Insulators with G.I. Pins	Nos.	9	336.00	3024.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	22 KV Lightning Arrestors (Screw type)	Sets	3	8568.00	25704.00
11	AAAC 100 mm2	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	300137.20

Sheet
No. 5

Cost data for Clamps & Connectors at 1 x 5 MVA, 33/22 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	189486.00

Sheet
No-6

Cost data for structure of 22 kv Main Bus at 1 X 5 MVA,33/22 kv Sub-Station

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	72	344.00	24768.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	322.00	3864.00
7	22 kV Pin Insulators with G.I. Pins	Nos.	9	336.00	3024.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	22 KV Lightning Arrestors (Screw type)	Sets	3	8568.00	25704.00
10	AAAC 100 mm2	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	242336.20

Sheet
No.7



Cost data for Yard Lighting of 1 X 5 MVA, 33/22 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cmt	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.8

Cost data for 100 KVA, 22/0.43 KV Station Transformer for 1 x 5 MVA, 33/22 KV S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist.transformer 100kva,22/0.4kv	No.	1	202380.00	202380.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	22KV A.B.Switch, 400 A	Set	1	14447.00	14447.00
7	22KV H.G.Fuses	Nos.	1	4467.00	4467.00
8	22 KV Lightning Arrestors (Screw type)	Set	1	8568.00	8568.00
9	22 kV Pin Insulators with G.I. Pins	Nos.	6	336.00	2016.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	305367.40

Sheet
No.9

Cost data for Control cable 1 X 5 MVA, 33/22KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 33/22 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640
2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D)	408296
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0



11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0	
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0	
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091	
14	Borewell including pumpset and allied accessories. (As per table I)	101071.00	
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.80	
16	Construction of retaining wall. (As per table K)	731271.97	
17	Rain Water Harvesting (As per Table L)	56519.24	
18	Culvert (As per Table M)	138225.00	
	Total=	7233264.49	

Item Code No. 0102B					
Cost data for 33/22 kV 1 X10 MVA New S/S(Outdoor)					
Sr.No	Description	Unit	Qty.	Rate	Amount
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2.00	13571.00	27142.00
2	33 KV Isolators with EB (800 A)	Set	1.00	55190.00	55190.00
3	33 KV Isolators without EB (800 Amp.)	Set	3.00	50510.00	151530.00
4	33 KV Post Insulator	No	3.00	918.00	2754.00
5	Disc Insulator 11 KV 70 KN	No	18.00	344.00	6192.00
6	AAAC 232 mm2	Rmt	200.00	127.40	25480.00
7	Strain Hardware for AAAC232 sq.mm.	Set	6.00	603.00	3618.00
8	Power Transformer 33/22 KV 10 MVA	No	1.00	4955754.00	4955754.00
9	33 KV P.T.	No	3.00	18876.00	56628.00
10	33 KV C. T. (400-200/1-1-1)	No	3.00	25011.00	75033.00
11	33 KV VCB complete 1600 Amp (O.D.)	No	1.00	204195.00	204195.00
12	C&R panel for 33 KV Transformer with Diff. Protection	Set	1.00	62334.00	62334.00
13	33 kV Pin Insulators with G.I. Pins	No	6.00	541.00	3246.00
14	G.I.Nut Bolts	Kg	150.00	82.90	12435.00
15	Marshalling Box	No	2.00	4284.00	8568.00
16	Gantry Structure/Steel section for 33 KV Bus as per Table No.1	Nos	1.00	121541.00	121541.00
17	Earthing complete as per Table No.2	Set	1.00	430060.00	430060.00
18	Structure for 33 KV CT & PT as per Table No.3	No	1.00	48071.00	48071.00
B	22 KV SIDE				
20	22 kv 500 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	1.00	1290945.00	1290945.00
21	22 KV Lightning Arrestors (Station type)	Set	1.00	11884.00	11884.00
22	22 kV Pin Insulators with G.I. Pins	No	12.00	336.00	4032.00
23	22 KV C.T. Three core.	No	3.00	24999.00	74997.00
24	AC Distribution Board 'B' type	No	1.00	24325.00	24325.00
25	Battery set 30 Volt, 100 AH with Battery charger	Set	1.00	72000.00	72000.00
26	Take off structure for 3 outgoing feeder as per Table No.4	No.	1.00	300137.20	300137.20
27	Clamps and Connectors as per TableNo.5	No.	1.00	189486.00	189486.00
28	Structure for 22 KV Main Bus as per Table No.6	No.	1.00	242336.20	242336.20
29	S/S Yard lighting as per Table No.7	No.	1.00	215879.00	215879.00
30	22/0.43 KV x 100 KVA station Transformer as per Table No.8.	No.	1.00	305367.40	305367.40
31	Control cables for S/S as per Table No.9	No.	1.00	171605.90	171605.90

Cost of material

9152765.70

1	Transportation on material	4.00%	366111
2	T&P on material cost	1.00%	91528
3	Contingencies on material	2.50%	228819
5	Erection cost on material	5.00%	457638
6	Contractor supervision charges on material	5.00%	457638
7	Insurance , Labour & Finance Cost	3.00%	274583
	Service Cost		1876317
	Sub-Total		11029083
8	Turnkey Charges	5.00%	551454
	Total		11580537

9	Civil Works As per Sheet 'C'	No.	1	7233264
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Total Cost of Estimate

18813801

Particulars	Tender/ Estimate Amount	
	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	14741444	11580537
Civil Works As per Sheet 'C'	9219583	7233264
Total Cost of the Estimate	23961027	18813801

Sheet
No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 1x10 MVA 33/22 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	48500.00	96224.00
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	48500.00	25317.00
				Total:	121541.00

Sheet
No.2

Cost data for Earthing Work at 1x 10 MVA at 33/22 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	2500	48.50	121250.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	44	6300.00	277200.00
3	Coal	Kg.	1400	15.00	21000.00
4	Salt	Kg.	1400	7.00	9800.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	430060.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1 x 10 MVA, 33/22 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No : 4

Cost data for Take off structure for 22 KV Feeders 3 outlets at 1x10 MVA,33/22KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	22KV A.B.Switch, 400 A	Nos.	3	14447.00	43341.00
6	Disc Insulator 11 KV 70 KN	Nos.	72	344.00	24768.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	322.00	3864.00
8	22 kV Pin Insulators with G.I. Pins	Nos.	9	336.00	3024.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	22 KV Lightning Arrestors (Screw type)	Sets	3	8568.00	25704.00
11	AAAC 100 mm2	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00



16	Miscellaneous material	LS	1	475.00	475.00
				Total:	300137.20

Sheet
No. 5

Cost data for Clamps & Connectors at 1 x10 MVA, 33/22 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	189486.00

Sheet
No-6

Cost data for structure of 22 kV Main Bus at 1 X 10 MVA,33/22 kV Sub-Station

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	72	344.00	24768.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	322.00	3864.00
7	22 kV Pin Insulators with G.I. Pins	Nos.	9	336.00	3024.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	22 KV Lightning Arrestors (Screw type)	Sets	3	8568.00	25704.00
10	AAAC 100 mm2	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	242336.20

Sheet
No.7

Cost data for Yard Lighting of 1 X 10 MVA, 33/22 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cmt	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.8

Cost data for 100 KVA, 22/0.43 KV Station Transformer for 1 x 10 MVA, 33/22 KV S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist.transformer 100kva,22/0.4kv	No.	1	202380.00	202380.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	22KV A.B.Switch, 400 A	Set	1	14447.00	14447.00



7	22KV H.G.Fuses	Nos.	1	4467.00	4467.00
8	22 KV Lightning Arrestors (Screw type)	Set	1	8568.00	8568.00
9	22 kV Pin Insulators with G.I. Pins	Nos.	6	336.00	2016.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	305367.40

Sheet
No.9

Cost data for Control cable 1 X 10 MVA, 33/22KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 33/22 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640
2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D)	408296
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091.00
14	Borewell including pumpset and allied accessories. (As per table I)	101071.00
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.80
16	Construction of retaining wall. (As per table K)	731271.97
17	Rain Water Harvesting (As per Table L)	56519.24
18	Culvert (As per Table M)	138225.00
	Total=	7233264.49

Item Code No. 0103B

Cost data for 33/22 kV 2 X 5 MVA New S/S(Outdoor)

Sr.No	Description	Unit	Qty.	Rate	Amount
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	4.00	13571.00	54284.00
2	33 KV Isolators with EB (800 A)	Set	2.00	55190.00	110380.00
3	33 KV Isolators without EB (800 Amp.)	Set	5.00	50510.00	252550.00
4	33 KV Post Insulator	No	6.00	918.00	5508.00
5	Disc Insulator 11 KV 70 KN	No	36.00	344.00	12384.00
6	AAAC 232 mm2	Rmt	200.00	127.40	25480.00
7	Strain Hardware for AAAC232 sq.mm.	Set	12.00	603.00	7236.00



8	Power Transformer 33/22 KV 5 MVA	No	2.00	3207040.00	6414080.00
9	33 KV P.T.	No	3.00	18876.00	56628.00
10	33 KV C. T. (400-200/1-1-1)	No	6.00	25011.00	150066.00
11	33 KV VCB complete 1600 Amp (O.D.)	No	2.00	204195.00	408390.00
12	C&R panel for 33 KV Transformer with Diff. Protection	Set	2.00	62334.00	124668.00
13	Control C&R Panel 22 KV for feeder with accessories.	Set	1	75834.00	75834.00
14	33 KV Pin Insulators with G.I. Pins	No	12.00	541.00	6492.00
15	G.I.Nut Bolts	Kg	150.00	82.90	12435.00
16	Marshalling Box	No	5.00	4284.00	21420.00
17	Gantry Structure/Steel section for 33 KV Bus as per Table No.1	Nos	1.00	194970.00	194970.00
18	Earthing complete as per Table No.2	Set	2.00	240980.00	481960.00
19	Structure for 33 KV CT & PT as per Table No.3	No	2.00	48071.00	96142.00
B	22 KV SIDE				
20	22 kv 500 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isulators, C.T. & P.T. etc.	Set	2.00	1290945.00	2581890.00
21	22 KV Lightning Arrestors (Station type)	Set	2.00	11884.00	23768.00
22	22 KV Pin Insulators with G.I. Pins	No	24.00	336.00	8064.00
23	AC Distribution Board 'B' type	No	1.00	24325.00	24325.00
24	Battery set 30 Volt, 100 AH with Battery charger	Set	1.00	72000.00	72000.00
25	Take off structure for 3 outgoing feeder as per Table No.4	No.	2.00	318645.20	637290.40
26	Clamps and Connectors as per TableNo.5	No.	1.00	251340.00	251340.00
27	Structure for 22 KV Main Bus as per Table No.6	No.	2.00	242336.20	484672.40
28	S/S Yard lighting as per Table No.7	No.	1.00	215879.00	215879.00
29	22/0.43 KV x 100 KVA station Transformer as per Table No.8.	No.	1.00	305367.40	305367.40
30	Control cables for S/S as per Table No.9	No.	2.00	171605.90	343211.80

D Cost of material 13458715.00

1	Transportation on material	4.00%	538349
2	T&P on material cost	1.00%	134587
3	Contingencies on material	2.50%	336468
5	Erection cost on material	5.00%	672936
6	Contractor supervision charges on material	5.00%	672936
7	Insurance , Labour & Finance Cost	3.00%	403761

Service Cost 2759037

Sub-Total 16217752

8	Turnkey Charges	5.00%	810888
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Total 17028639

9	Civil Works As per Sheet 'C'	No.	1	7849000
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Total Cost of Estimate 24877640

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	21676606	17028639
Civil Works As per Sheet 'C'	10004405	7849000
Total Cost of the Estimate	31681012	24877640

Sheet No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 2x5 MVA 33/22 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
				Total:	194970.00

Sheet No.2

Cost data for Earthing Work at 2x 5 MVA at 33/22 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
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1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	240980.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 2x 5 MVA, 33/22 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No : 4

Cost data for Take off structure for 22 KV Feeders 3 outlets at 2x5 MVA,33/22KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	9254.00	74032.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	22KV A.B.Switch, 400 A	Nos.	3	14447.00	43341.00
6	Disc Insulator 11 KV 70 KN	Nos.	72	344.00	24768.00
7	Strain Hardware for Dog.0.1 or Equ.AAAC.	Nos.	12	322.00	3864.00
8	22 kv Pin Insulators with G.I. Pins	Nos.	9	336.00	3024.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	22 KV Lightning Arrestors (Screw type)	Sets	3	8568.00	25704.00
11	AAAC 100 mm ²	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	318645.20

Sheet
No. 5

Cost data for Clamps & Connectors at 2x5 MVA, 33/22 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	251340.00

Sheet
No-6

Cost data for structure of 22 kv Main Bus at 2 X 5 MVA,33/22 kv Sub-Station

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00



2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	72	344.00	24768.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	322.00	3864.00
7	22 kV Pin Insulators with G.I. Pins	Nos.	9	336.00	3024.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	22 KV Lightning Arrestors (Screw type)	Sets	3	8568.00	25704.00
10	AAAC 100 mm2	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	242336.20

Sheet
No.7

Cost data for Yard Lighting of 2X 5 MVA, 33/22 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt.	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cmt.	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.8

Cost data for 100 KVA, 22/0.43 KV Station Transformer for 2x5 MVA, 33/22 KV S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist.transformer 100kva,22/0.4kv	No.	1	202380.00	202380.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	22KV A.B.Switch, 400 A	Set	1	14447.00	14447.00
7	22KV H.G.Fuses	Nos.	1	4467.00	4467.00
8	22 KV Lightning Arrestors (Screw type)	Set	1	8568.00	8568.00
9	22 kV Pin Insulators with G.I. Pins	Nos.	6	336.00	2016.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	305367.40

Sheet
No.9

Cost data for Control cable 2 X 5 MVA, 33/22KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00



				TOTAL	171605.90
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C Cost data for civil works for 33/22 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640
2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D)	408296
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	615735.9
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091
14	Borewell including pumpset and allied accessories. (As per table I)	101071
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.804
16	Construction of retaining wall. (As per table K)	731271.97
17	Rain Water Harvesting (As per Table L)	56519.24
18	Culvert (As per Table M)	138225
	Total=	7849000.39

Item Code No. 0104B

Cost data for 33/22 kv 2 X 10 MVA New S/S(Outdoor)

Sr.No	Description	Unit	Qty.	Rate	Amount
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	4.00	13571.00	54284.00
2	33 KV Isolators with EB (800 A)	Set	2.00	55190.00	110380.00
3	33 KV Isolators without EB (800 Amp.)	Set	5.00	50510.00	252550.00
4	33 KV Post Insulator	No	6.00	918.00	5508.00
5	Disc Insulator 11 KV 70 KN	No	36.00	344.00	12384.00
6	AAAC 232 mm2	Rmt	200.00	127.40	25480.00
7	Strain Hardware for AAAC232 sq.mm.	Set	12.00	603.00	7236.00
8	Power Transformer 33/22 KV 10 MVA	No	2.00	4955754.00	9911508.00
9	33 KV P.T.	No	3.00	18876.00	56628.00
10	33 kv C. T. (400-200/1-1-1)	No	6.00	25011.00	150066.00
11	33 KV VCB complete 1600 Amp (O.D.)	No	2.00	204195.00	408390.00
12	C&R panel for 33 KV Transformer with Diff. Protection	Set	2.00	62334.00	124668.00
13	Control C&R Panel 22 KV for feeder with accessories.	Set	1	75834.00	75834.00
14	33 KV Pin Insulators with G.I. Pins	No	12.00	541.00	6492.00
15	G.I.Nut Bolts	Kg	150.00	82.90	12435.00
16	Marshalling Box	No	5.00	4284.00	21420.00
17	Gantry Structure/Steel section for 33 KV Bus as per Table No.1	Nos	1.00	194970.00	194970.00
18	Earthing complete as per Table No.2	Set	2.00	240980.00	481960.00
19	Structure for 33 KV CT & PT as per Table No.3	No	2.00	48071.00	96142.00
B	22 KV SIDE				
20	22 kv 500 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	2.00	1290945.00	2581890.00
21	22 KV Lightning Arrestors (Station type)	Set	2.00	11884.00	23768.00
22	22 kv Pin Insulators with G.I. Pins	No	24.00	336.00	8064.00
23	AC Distribution Board 'B' type	No	1.00	24325.00	24325.00
24	Battery set 30 Volt, 100 AH with Battery charger	Set	1.00	72000.00	72000.00
25	Take off structure for 3 outgoing feeder as per Table No.4	No.	2.00	318645.20	637290.40
26	Clamps and Connectors as per TableNo.5	No.	1.00	251340.00	251340.00
27	Structure for 22 KV Main Bus as per Table No.6	No.	2.00	242336.20	484672.40
28	S/S Yard lighting as per Table No.7	No.	1.00	215879.00	215879.00



29	22/0.43 KV x 100 KVA station Transformer as per Table No.8.	No.	1.00	305367.40	305367.40
30	Control cables for S/S as per Table No.9	No.	2.00	171605.90	343211.80
D Cost of material					16956143.00
1	Transportation on material		4.00%		678246
2	T&P on material cost		1.00%		169561
3	Contingencies on material		2.50%		423904
5	Erection cost on material		5.00%		847807
6	Contractor supervision charges on material		5.00%		847807
7	Insurance , Labour & Finance Cost		3.00%		508684
Service Cost					3476009
Sub-Total					20432152
8	Turnkey Charges		5.00%		1021608
Total					21453760
9	Civil Works As per Sheet 'C'	No.	1		7874091
Total Cost of Estimate					29327851

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	27309564	21453760
Civil Works As per Sheet 'C'	10036387	7874091
Total Cost of the Estimate	37345951	29327851

Sheet
No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 2x10 MVA 33/22 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
Total:					194970.00

Sheet
No.2

Cost data for Earthing Work at 2x 10 MVA at 33/22 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
Total:					240980.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 2x 10 MVA, 33/22 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No : 4

Cost data for Take off structure for 22 KV Feeders 3 outlets at 2x 10 MVA,33/22KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
--------	-------------------------	------	------	------	--------



1	RSJ 116x100, 9 m long	Nos.	8	9254.00	74032.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	22KV A.B.Switch, 400 A	Nos.	3	14447.00	43341.00
6	Disc Insulator 11 KV 70 KN	Nos.	72	344.00	24768.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	322.00	3864.00
8	22 kV Pin Insulators with G.I. Pins	Nos.	9	336.00	3024.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	22 KV Lightning Arrestors (Screw type)	Sets	3	8568.00	25704.00
11	AAAC 100 mm2	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	318645.20

Sheet
No. 5

Cost data for Clamps & Connectors at 2x 10 MVA, 33/22 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	251340.00

Sheet
No-6

Cost data for structure of 22 kV Main Bus at 2 X 10 MVA,33/22 kV Sub-Station

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	72	344.00	24768.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	322.00	3864.00
7	22 kV Pin Insulators with G.I. Pins	Nos.	9	336.00	3024.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	22 KV Lightning Arrestors (Screw type)	Sets	3	8568.00	25704.00
10	AAAC 100 mm2	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	242336.20

Sheet
No.7

Cost data for Yard Lighting of 2X 10 MVA, 33/22 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00



4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cmt	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.8

Cost data for 100 KVA, 22/0.43 KV Station Transformer for 2x 10 MVA, 33/22 KV S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist.transformer 100kva,22/0.4kv	No.	1	202380.00	202380.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	22KV A.B.Switch, 400 A	Set	1	14447.00	14447.00
7	22KV H.G.Fuses	Nos.	1	4467.00	4467.00
8	22 KV Lightning Arrestors (Screw type)	Set	1	8568.00	8568.00
9	22 kV Pin Insulators with G.I. Pins	Nos.	6	336.00	2016.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	305367.40

Sheet
No.9

Cost data for Control cable 2 X 10 MVA, 33/22KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 33/22 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640
2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D)	408296
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	615735.9
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	25090.97
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091
14	Borewell including pumpset and allied accessories. (As per table I)	101071



15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.804	
16	Construction of retaining wall. (As per table K)	731271.97	
17	Rain Water Harvesting (As per Table L)	56519.24	
18	Culvert (As per Table M)	138225	
	Total=	7874091.364	

Item Code No.0101C					
Cost data for 33/11 KV 1 X 5 MVA New S/S33 kV Outdoor & 11 kV Indoor					
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	13571.00	27142.00
2	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	50510.00	151530.00
4	33 KV Post Insulator	Nos	3	918.00	2754.00
5	Disc Insulator 11 KV 70 KN	Nos	18	344.00	6192.00
6	AAAC 232 mm2	MTR	200	127.40	25480.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	6	603.00	3618.00
8	Earthing complete as per Sheet no.2	Set	1	270490.00	270490.00
9	Power Transformer 33/11 KV, 5 MVA	No	1	3003469.00	3003469.00
10	33 KV P.T.	Nos	3	18876.00	56628.00
11	33 KV C. T. (400-200/1-1-1)	Nos	3	25011.00	75033.00
12	33 KV VCB complete 1600 Amp (O.D.)	Set	1	204195.00	204195.00
13	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56858.00	56858.00
14	33 KV Pin Insulators with G.I. Pins	Nos	6	541.00	3246.00
15	Structure for 33 KV CT & PT as per Sheet no.3	No	1	48071.00	48071.00
16	G.I.Nut Bolts	KG	150	82.90	12435.00
17	Gantry Structure/Steel section for 33 KV Bus as per Table No.1	Nos	1.00	121541.00	121541.00
18	Marshalling Box	No.	1	4284.00	4284.00
B	11 KV SIDE				
19	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1703020.00	1703020.00
20	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	300	1194.00	358200.00
21	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	4	1662.00	6648.00
22	Clamps and Connectors as per Sheet no.4	No.	1	273276.00	273276.00
23	S/S Yard lighting as per Sheet no.5	No.	1	211641.00	211641.00
24	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
25	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	No.	1	196242.40	196242.40
26	Control cables for S/S as per Sheet no.7	No.	1	85383.45	85383.45
27	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
D	Cost of material				7058891.85

1	Transportation on material	4.00%	282356
2	T&P on material cost	1.00%	70589
3	Contingencies on material	2.50%	176472
5	Erection cost on material	5.00%	352945
6	Contractor supervision charges on material	5.00%	352945
7	Insurance , Labour & Finance Cost	3.00%	211767
	Service Cost		1447073
	Sub-Total		8505965
8	Turnkey Charges	5.00%	425298
	Total		8931263

9	Civil Works As per Sheet 'C'	No.	1	5202820
	Total Cost of Estimate			14134083

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	11369051	8931263
Civil Works As per Sheet 'C'	6631561	5202820
Total Cost of the Estimate	18000612	14134083



Sheet
No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 1x5 MVA 33/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	48500.00	96224.00
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	48500.00	25317.00
Total:					121541.00

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I.Flat 50 x 6 mm	Kg.	1500	66.78	100170.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2900.00	2900.00
Total:					270490.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No.4

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
Total:					273276.00

Sheet
No.5

Cost data for Yard Lighting of 1X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	7	3027.00	21189.00
6	Red Bricks	No.	1000	5.50	5500.00
7	Sand	Cum	6	222.00	1332.00
8	Sundries	L.S.	-	810.00	810.00
Total:					211641.00

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	70.08	20323.20



2	G.I.Channel 75x40x6mm	Kg.	15	70.08	1051.20
3	G.I Flat 75x10 mm	Kg.	20	66.78	1335.60
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
11	Earthing Sets H.T	Nos.	3	342.00	1026.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	Coal	Kg.	200	15.00	3000.00
14	Salt	Kg.	200	7.00	1400.00
15	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	196242.40

Sheet
No.7

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

C Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) Hybrid	150490
2	Control room (As per table B) Hybrid	2930526.21
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D) Hybrid	230185
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	537350.16
8	Metal Spreading (As per table F) Hybrid	96212
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	86289.2
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	52836.00
13	Borewell including pumpset and allied accessories. (As per table I) Hybrid	101071.00
14	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	173239.75
15	Construction of retaining wall. (As per table K) Hybrid	549876.50
16	Rain Water Harvesting (As per Table L) Indoor	56519.24
17	Culvert (As per Table M) Indoor	138225.00
	Total=	5202820.06

Item Code No.0102C

Cost data for 33/11 kV 1 X 10 MVA New S/S33 kV Outdoor & 11 kV Indoor

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	13571.00	27142.00
2	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	50510.00	151530.00
4	33 KV Post Insulator	Nos	3	918.00	2754.00
5	Disc Insulator 11 KV 70 KN	Nos	18	344.00	6192.00



6	AAAC 232 mm2	MTR	200	127.40	25480.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	6	603.00	3618.00
8	Earthing complete as per Sheet no.2	Set	1	270490.00	270490.00
9	Power Transformer 33/11 KV, 10 MVA	No	1	4687202.00	4687202.00
10	33 KV P.T.	Nos	3	18876.00	56628.00
11	33 kV C. T. (400-200/1-1-1)	Nos	3	25011.00	75033.00
12	33 KV VCB complete 1600 Amp (O.D.)	Set	1	204195.00	204195.00
13	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56858.00	56858.00
14	33 kV Pin Insulators with G.I. Pins	Nos	6	541.00	3246.00
15	Structure for 33 KV CT & PT as per Sheet no.3	No	1	48071.00	48071.00
16	G.I.Nut Bolts	KG	150	82.90	12435.00
17	Gantry Structure/Steel section for 33 KV Bus as per Table No.1	Nos	1.00	121541.00	121541.00
18	Marshalling Box	No.	1	4284.00	4284.00
B 11 KV SIDE					
19	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1703020.00	1703020.00
20	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	300	1194.00	358200.00
21	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	4	1662.00	6648.00
22	Clamps and Connectors as per Sheet no.4	No.	1	390606.00	390606.00
23	S/S Yard lighting as per Sheet no.5	No.	1	211641.00	211641.00
24	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
25	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	No.	1	196242.40	196242.40
26	Control cables for S/S as per Sheet no.7	No.	1	85383.45	85383.45
27	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D **Cost of material** **8859954.85**

1	Transportation on material	4.00%	354398
2	T&P on material cost	1.00%	88600
3	Contingencies on material	2.50%	221499
5	Erection cost on material	5.00%	442998
6	Contractor supervision charges on material	5.00%	442998
7	Insurance , Labour & Finance Cost	3.00%	265799

Service Cost **1816291**

Sub-Total **10676246**

8	Turnkey Charges	5.00%	533812
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Total **11210058**

9	Civil Works As per Sheet 'C'	No.	1	5202820
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Total Cost of Estimate **16412878**

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	14269843	11210058
Civil Works As per Sheet 'C'	6631561	5202820
Total Cost of the Estimate	20901404	16412878

Sheet No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 1x10 MVA 33/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	48500.00	96224.00
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	48500.00	25317.00
				Total:	121541.00

Sheet No.2

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I..Flat 50 x 6 mm	Kg.	1500	66.78	100170.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00



3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2900.00	2900.00
Total:					270490.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No.4

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
7	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
Total:					390606.00

Sheet
No.5

Cost data for Yard Lighting of 1X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	7	3027.00	21189.00
6	Red Bricks	No.	1000	5.50	5500.00
7	Sand	Cum	6	222.00	1332.00
8	Sundries	L.S.	-	810.00	810.00
Total:					211641.00

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	70.08	20323.20
2	G.I.Channel 75x40x6mm	Kg.	15	70.08	1051.20
3	G.I Flat 75x10 mm	Kg.	20	66.78	1335.60
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
8	11 KV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
11	Earthing Sets H.T	Nos.	3	342.00	1026.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	Coal	Kg.	200	15.00	3000.00
14	Salt	Kg.	200	7.00	1400.00
15	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00



				Total:	196242.40
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Sheet
No.7

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

C Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) Hybrid	150490
2	Control room (As per table B) Hybrid	2930526.21
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D) Hybrid	230185
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	537350.16
8	Metal Spreading (As per table F) Hybrid	96212
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	86289.2
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	52836.00
13	Borewell including pumpset and allied accessories. (As per table I) Hybrid	101071.00
14	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	173239.75
15	Construction of retaining wall. (As per table K) Hybrid	549876.50
16	Rain Water Harvesting (As per Table L) Indoor	56519.24
17	Culvert (As per Table M) Indoor	138225.00
	Total=	5202820.06

Item Code No.0103C

Cost data for 33/11 KV 2 X 5 MVA New S/S33 kV Outdoor & 11 kV Indoor

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	4	13571.00	54284.00
2	33 KV Isolators with EB (800 A)	Set	2	55190.00	110380.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	50510.00	252550.00
4	33 KV Post Insulator	Nos	6	918.00	5508.00
5	Disc Insulator 11 KV 70 KN	Nos	36	344.00	12384.00
6	AAAC 232 mm2	MTR	200	127.40	25480.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	12	603.00	7236.00
8	Earthing complete as per Sheet no.2	Set	2	240980.00	481960.00
9	Power Transformer 33/11 KV, 5 MVA	No	2	3003469.00	6006938.00
10	33 KV P.T.	Nos	3	18876.00	56628.00
11	33 KV C. T. (400-200/1-1-1)	Nos	6	25011.00	150066.00
12	33 KV VCB complete 1600 Amp (O.D.)	Set	2	204195.00	408390.00
13	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	2	56858.00	113716.00
14	33 KV Pin Insulators with G.I. Pins	Nos	12	541.00	6492.00
15	Structure for 33 KV CT & PT as per Sheet no.3	No	2	48071.00	96142.00
16	G.I.Nut Bolts	KG	150	82.90	12435.00
17	Gantry Structure/Steel section for 33 KV Bus as per Table No.1	Nos	1.00	194970.00	194970.00
19	Marshalling Box	No.	2	4284.00	8568.00
B	11 KV SIDE				
20	11kV I D switchgear (2 I/c+1 B/c+80/G)	Set	1	3117222.00	3117222.00



21	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	600	1194.00	716400.00
22	11 KV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	8	1662.00	13296.00
23	Clamps and Connectors as per Sheet no.4	No.	1	452460.00	452460.00
24	S/S Yard lighting as per Sheet no.5	No.	1	215879.00	215879.00
25	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
26	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	No.	1	196242.40	196242.40
27	Control cables for S/S as per Sheet no.7	No.	1	171605.90	171605.90
28	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D **Cost of material** **12983557.30**

1	Transportation on material	4.00%	519342
2	T&P on material cost	1.00%	129836
3	Contingencies on material	2.50%	324589
5	Erection cost on material	5.00%	649178
6	Contractor supervision charges on material	5.00%	649178
7	Insurance , Labour & Finance Cost	3.00%	389507

Service Cost **2661629**

Sub-Total **15645187**

8	Turnkey Charges	5.00%	782259
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Total **16427446**

9	Civil Works As per Sheet 'C'	No.	1	5289109
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Total Cost of Estimate **21716555**

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	20911317	16427446
Civil Works As per Sheet 'C'	6741546	5289109
Total Cost of the Estimate	27652863	21716555

Sheet
No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 2x5 MVA 33/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
Total:					194970.00

Sheet
No.2

Cost data for Earthing Work at 2x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
Total:					240980.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 2x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00



Total:	48071.00
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Sheet
No.4

Cost data for Clamps & Connectors at 2x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
7	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
				Total:	452460.00

Sheet
No.5

Cost data for Yard Lighting of 2X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cum	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	70.08	20323.20
2	G.I.Channel 75x40x6mm	Kg.	15	70.08	1051.20
3	G.I Flat 75x10 mm	Kg.	20	66.78	1335.60
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
8	11 kv Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
11	Earthing Sets H.T	Nos.	3	342.00	1026.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	Coal	Kg.	200	15.00	3000.00
14	Salt	Kg.	200	7.00	1400.00
15	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	196242.40

Sheet
No.7

Cost data for Control cable 2 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00



6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) Hybrid	150490
2	Control room (As per table B) Hybrid	2930526.21
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D) Hybrid	230185
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	537350.16
8	Metal Spreading (As per table F) Hybrid	96212
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	86289.2
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	86289.2
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	52836.00
13	Borewell including pumpset and allied accessories. (As per table I) Hybrid	101071.00
14	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	173239.75
15	Construction of retaining wall. (As per table K) Hybrid	549876.50
16	Rain Water Harvesting (As per Table L) Indoor	56519.24
17	Culvert (As per Table M) Indoor	138225.00
Total=		5289109.26

Item Code No.0104C

Cost data for 33/11 kV 2 X 10 MVA New S/S33 kV Outdoor & 11 kV Indoor

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	4	13571.00	54284.00
2	33 KV Isolators with EB (800 A)	Set	2	55190.00	110380.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	50510.00	252550.00
4	33 KV Post Insulator	Nos	6	918.00	5508.00
5	Disc Insulator 11 KV 70 KN	Nos	36	344.00	12384.00
6	AAAC 232 mm2	MTR	200	127.40	25480.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	12	603.00	7236.00
8	Earthing complete as per Sheet no.2	Set	2	240980.00	481960.00
9	Power Transformer 33/11 KV, 10 MVA	No	2	4687202.00	9374404.00
10	33 KV P.T.	Nos	3	18876.00	56628.00
11	33 KV C. T. (400-200/1-1-1)	Nos	6	25011.00	150066.00
12	33 KV VCB complete 1600 Amp (O.D.)	Set	2	204195.00	408390.00
13	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	2	56858.00	113716.00
14	33 kV Pin Insulators with G.I. Pins	Nos	12	541.00	6492.00
15	Structure for 33 KV CT & PT as per Sheet no.3	No	2	48071.00	96142.00
16	G.I.Nut Bolts	KG	150	82.90	12435.00
17	Gantry Structure/Steel section for 33 KV Bus as per Table No.1	Nos	1.00	194970.00	194970.00
18	Marshalling Box	No.	2	4284.00	8568.00
B	11 KV SIDE				
19	11kV I D switchgear (2 I/c+1 B/c+80/G)	Set	1	3117222.00	3117222.00
20	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	600	1194.00	716400.00
21	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	8	1662.00	13296.00
22	Clamps and Connectors as per Sheet no.4	No.	1	452460.00	452460.00
23	S/S Yard lighting as per Sheet no.5	No.	1	215879.00	215879.00
24	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
25	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	No.	1	196242.40	196242.40
26	Control cables for S/S as per Sheet no.7	No.	1	171605.90	171605.90
27	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
D Cost of material					16351023.30

1 Transportation on material 4.00% 654041



2	T&P on material cost	1.00%	163510
3	Contingencies on material	2.50%	408776
5	Erection cost on material	5.00%	817551
6	Contractor supervision charges on material	5.00%	817551
7	Insurance , Labour & Finance Cost	3.00%	490531
	Service Cost		3351960
	Sub-Total		19702983
8	Turnkey Charges	5.00%	985149
	Total		20688132
9	Civil Works As per Sheet 'C'	No. 1	5314200
	Total Cost of Estimate		26002332

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	26334958	20688132
Civil Works As per Sheet 'C'	6773527	5314200
Total Cost of the Estimate	33108485	26002332

Sheet
No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 2x10 MVA 33/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
Total:					194970.00

Sheet
No.2

Cost data for Earthing Work at 2x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T.of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
Total:					240980.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 2x10 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No.4

Cost data for Clamps & Connectors at 2x10 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00



5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
7	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
				Total:	452460.00

Sheet
No.5

Cost data for Yard Lighting of 2X 10 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cum	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 10 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	70.08	20323.20
2	G.I.Channel 75x40x6mm	Kg.	15	70.08	1051.20
3	G.I Flat 75x10 mm	Kg.	20	66.78	1335.60
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
8	11 kv Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
11	Earthing Sets H.T	Nos.	3	342.00	1026.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	Coal	Kg.	200	15.00	3000.00
14	Salt	Kg.	200	7.00	1400.00
15	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	196242.40

Sheet
No.7

Cost data for Control cable 2 X 10 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) Hybrid	150490
2	Control room (As per table B) Hybrid	2930526.21
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000



6	WBM Road (As per table D) Hybrid	230185	
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	537350.16	
8	Metal Spreading (As per table F) Hybrid	96212	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	86289.2	
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	86289.2	
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	25090.97	
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	52836.00	
13	Borewell including pumpset and allied accessories. (As per table I) Hybrid	101071.00	
14	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	173239.75	
15	Construction of retaining wall. (As per table K) Hybrid	549876.50	
16	Rain Water Harvesting (As per Table L) Indoor	56519.24	
17	Culvert (As per Table M) Indoor	138225.00	
	Total=	5314200.23	

Item Code No.0101D					
Cost data for 33/11 kV 1 X 5 MVA New S/S/33 kV Outdoor & 11 kV Indoor with RSJ pole structure					
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	13571.00	27142.00
2	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	50510.00	151530.00
4	33 KV Post Insulator	Nos	3	918.00	2754.00
5	RSJ 125x70, 8 m long	Nos	8	4683.00	37464.00
6	G.I.Channel 100x50x6mm	Kg.	1650	70.08	115632.00
7	G.I.Angle 75x40 mm	Kg.	100	70.08	7008.00
8	G.I.Flat 50x10 mm	Kg.	80	66.78	5342.40
9	Disc Insulator 11 KV 70 KN	Nos	18	344.00	6192.00
10	AAAC 232 mm2	MTR	200	127.40	25480.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	6	603.00	3618.00
12	Earthing complete as per Sheet no.1	Set	1	270490.00	270490.00
13	Power Transformer 33/11 KV, 5 MVA	No	1	3003469.00	3003469.00
14	33 KV P.T.	Nos	3	18876.00	56628.00
15	33 kV C. T. (400-200/1-1-1)	Nos	3	25011.00	75033.00
16	33 KV VCB complete 1600 Amp (O.D.)	Set	1	204195.00	204195.00
17	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56858.00	56858.00
18	33 kV Pin Insulators with G.I. Pins	Nos	6	541.00	3246.00
19	Structure for 33 KV CT & PT as per Sheet no.2	No	1	48071.00	48071.00
20	G.I.Nut Bolts	KG	150	82.90	12435.00
21	Marshalling Box	No.	1	4284.00	4284.00
B	11 KV SIDE				
22	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1703020.00	1703020.00
23	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	300	1194.00	358200.00
24	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	4	1662.00	6648.00
25	Clamps and Connectors as per Sheet no.3	No.	1	273276.00	273276.00
26	S/S Yard lighting as per Sheet no.4	No.	1	211641.00	211641.00
27	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
28	11/0.43 KV x 100 KVA station Transformer as per Sheet no.5	No.	1	196242.40	196242.40
29	Control cables for S/S as per Sheet no.6	No.	1	85383.45	85383.45
30	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
D	Cost of material				7102797.25
1	Transportation on material	4.00%			284112
2	T&P on material cost	1.00%			71028
3	Contingencies on material	2.50%			177570
5	Erection cost on material	5.00%			355140
6	Contractor supervision charges on material	5.00%			355140
7	Insurance , Labour & Finance Cost	3.00%			213084
	Service Cost				1456073
	Sub-Total				8558871
8	Turnkey Charges	5.00%			427944



Total

8986814

9 Civil Works As per Sheet 'C'

No. 1

5202820

Total Cost of Estimate

14189634

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
	Cost with overheads on Material	11439765
Civil Works As per Sheet 'C'	6631561	5202820
Total Cost of the Estimate	18071326	14189634

Sheet
No.1

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I..Flat 50 x 6 mm	Kg.	1500	66.78	100170.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2900.00	2900.00
Total:					270490.00

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No.3

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
Total:					273276.00

Sheet
No.4

Cost data for Yard Lighting of 1X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	7	3027.00	21189.00
6	Red Bricks	No.	1000	5.50	5500.00
7	Sand	Cum	6	222.00	1332.00
8	Sundries	L.S.	-	810.00	810.00
Total:					211641.00



Sheet
No.5

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	70.08	20323.20
2	G.I.Channel 75x40x6mm	Kg.	15	70.08	1051.20
3	G.I Flat 75x10 mm	Kg.	20	66.78	1335.60
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
11	Earthing Sets H.T	Nos.	3	342.00	1026.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	Coal	Kg.	200	15.00	3000.00
14	Salt	Kg.	200	7.00	1400.00
15	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	196242.40

Sheet
No.6

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

C Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) Hybrid	150490
2	Control room (As per table B) Hybrid	2930526.21
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D) Hybrid	230185
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	537350.16
8	Metal Spreading (As per table F) Hybrid	96212
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	86289.2
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	52836.00
13	Borewell including pumpset and allied accessories. (As per table I) Hybrid	101071.00
14	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	173239.75
15	Construction of retaining wall. (As per table K) Hybrid	549876.50
16	Rain Water Harvesting (As per Table L) Indoor	56519.24
17	Culvert (As per Table M) Indoor	138225.00
	Total=	5202820.06

Item Code No.0102D

Cost data for 33/11 kv 1 X 10 MVA New S/S33 kv Outdoor & 11 kv Indoor with RSJ pole structure

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
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A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	13571.00	27142.00
2	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	50510.00	151530.00
4	33 KV Post Insulator	Nos	3	918.00	2754.00
5	RSJ 125x70, 8 m long	Nos	8	4683.00	37464.00
6	G.I.Channel 100x50x6mm	Kg.	1650	70.08	115632.00
7	G.I.Angle 75x40 mm	Kg.	100	70.08	7008.00
8	G.I Flat 50x10 mm	Kg.	80	66.78	5342.40
9	Disc Insulator 11 KV 70 KN	Nos	18	344.00	6192.00
10	AAAC 232 mm2	MTR	200	127.40	25480.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	6	603.00	3618.00
12	Earthing complete as per Sheet no.1	Set	1	270490.00	270490.00
13	Power Transformer 33/11 KV, 10 MVA	No	1	4687202.00	4687202.00
14	33 KV P.T.	Nos	3	18876.00	56628.00
15	33 KV C. T. (400-200/1-1-1)	Nos	3	25011.00	75033.00
16	33 KV VCB complete 1600 Amp (O.D.)	Set	1	204195.00	204195.00
17	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56858.00	56858.00
18	33 kV Pin Insulators with G.I. Pins	Nos	6	541.00	3246.00
19	Structure for 33 KV CT & PT as per Sheet no.2	No	1	48071.00	48071.00
20	G.I.Nut Bolts	KG	150	82.90	12435.00
21	Marshalling Box	No.	1	4284.00	4284.00
B	11 KV SIDE				
22	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1703020.00	1703020.00
23	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	300	1194.00	358200.00
24	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	4	1662.00	6648.00
25	Clamps and Connectors as per Sheet no.3	No.	1	273276.00	273276.00
26	S/S Yard lighting as per Sheet no.4	No.	1	211641.00	211641.00
27	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
28	11/0.43 KV x 100 KVA station Transformer as per Sheet no.5	No.	1	196242.40	196242.40
29	Control cables for S/S as per Sheet no.6	No.	1	85383.45	85383.45
30	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D Cost of material 8786530.25

1	Transportation on material	4.00%	351461
2	T&P on material cost	1.00%	87865
3	Contingencies on material	2.50%	219663
5	Erection cost on material	5.00%	439327
6	Contractor supervision charges on material	5.00%	439327
7	Insurance , Labour & Finance Cost	3.00%	263596
Service Cost			1801239
Sub-Total			10587769
8	Turnkey Charges	5.00%	529388
Total			11117157
9	Civil Works As per Sheet 'C'	No. 1	5202820
Total Cost of Estimate			16319977

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	14151586	11117157
Civil Works As per Sheet 'C'	6631561	5202820
Total Cost of the Estimate	20783146	16319977

Sheet No.1

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I.Flat 50 x 6 mm	Kg.	1500	66.78	100170.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00



4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2900.00	2900.00
				Total:	270490.00

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No.3

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	273276.00

Sheet
No.4

Cost data for Yard Lighting of 1X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	7	3027.00	21189.00
6	Red Bricks	No.	1000	5.50	5500.00
7	Sand	Cum	6	222.00	1332.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	211641.00

Sheet
No.5

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	70.08	20323.20
2	G.I.Channel 75x40x6mm	Kg.	15	70.08	1051.20
3	G.I Flat 75x10 mm	Kg.	20	66.78	1335.60
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
8	11 kv Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
11	Earthing Sets H.T	Nos.	3	342.00	1026.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	Coal	Kg.	200	15.00	3000.00
14	Salt	Kg.	200	7.00	1400.00
15	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20



16	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	196242.40

Sheet
No.6

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

C Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) Hybrid	150490
2	Control room (As per table B) Hybrid	2930526.21
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D) Hybrid	230185
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	537350.16
8	Metal Spreading (As per table F) Hybrid	96212
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	86289.2
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	52836.00
13	Borewell including pumpset and allied accessories. (As per table I) Hybrid	101071.00
14	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	173239.75
15	Construction of retaining wall. (As per table K) Hybrid	549876.50
16	Rain Water Harvesting (As per Table L) Indoor	56519.24
17	Culvert (As per Table M) Indoor	138225.00
Total=		5202820.06

Item Code No.0103D

Cost data for 33/11 kV 2 X 5 MVA New S/S33 kV Outdoor & 11 kV Indoor with RSJ pole structure

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33 KV SIDE					
1	33 KV Lightning Arrestors (Station type)	Set	4	13571.00	54284.00
2	33 KV Isolators with EB (800 A)	Set	2	55190.00	110380.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	50510.00	252550.00
4	33 KV Post Insulator	Nos	6	918.00	5508.00
5	RSJ 125x70, 8 m long	Nos	16	4683.00	74928.00
6	G.I.Channel 100x50x6mm	Kg.	3300	70.08	231264.00
7	G.I.Angle 75x40 mm	Kg.	200	70.08	14016.00
8	G.I Flat 50x10 mm	Kg.	160	66.78	10684.80
9	Disc Insulator 11 KV 70 KN	Nos	36	344.00	12384.00
10	AAAC 232 mm2	MTR	200	127.40	25480.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	603.00	7236.00
12	Earthing complete as per Sheet no.1	Set	2	240980.00	481960.00
13	Power Transformer 33/11 KV, 5 MVA	No	2	3003469.00	6006938.00
14	33 KV P.T.	Nos	3	18876.00	56628.00
15	33 KV C. T. (400-200/1-1-1)	Nos	6	25011.00	150066.00
16	33 KV VCB complete 1600 Amp (O.D.)	Set	2	204195.00	408390.00
17	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	2	56858.00	113716.00
18	33 kV Pin Insulators with G.I. Pins	Nos	12	541.00	6492.00
19	Structure for 33 KV CT & PT as per Sheet no.2	No	2	48071.00	96142.00



20	G.I.Nut Bolts	KG	150	82.90	12435.00
21	Marshalling Box	No.	2	4284.00	8568.00
B 11 KV SIDE					
22	11kV I D switchgear (2 I/c+1 B/c+8O/G)	Set	1	3117222.00	3117222.00
23	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	600	1194.00	716400.00
24	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	8	1662.00	13296.00
25	Clamps and Connectors as per Sheet no.3	No.	1	335130.00	335130.00
26	S/S Yard lighting as per Sheet no.4	No.	1	215879.00	215879.00
27	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
28	11/0.43 KV x 100 KVA station Transformer as per Sheet no.5	No.	1	196242.40	196242.40
29	Control cables for S/S as per Sheet no.6	No.	1	171605.90	171605.90
30	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D Cost of material 13002150.10

1	Transportation on material	4.00%	520086
2	T&P on material cost	1.00%	130022
3	Contingencies on material	2.50%	325054
5	Erection cost on material	5.00%	650108
6	Contractor supervision charges on material	5.00%	650108
7	Insurance , Labour & Finance Cost	3.00%	390065

Service Cost 2665441

Sub-Total 15667591

8	Turnkey Charges	5.00%	783380
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Total 16450970

9	Civil Works As per Sheet 'C'	No.	1	5289109
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Total Cost of Estimate 21740080

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	20941263	16450970
Civil Works As per Sheet 'C'	6741546	5289109
Total Cost of the Estimate	27682809	21740080

Sheet
No.1

Cost data for Earthing Work at 2x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
Total:					240980.00

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 2x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No.3

Cost data for Clamps & Connectors at 2x5 MVA, 33/11 KV S/S



Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	335130.00

Sheet
No.4

Cost data for Yard Lighting of 2X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cum	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.5

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	70.08	20323.20
2	G.I.Channel 75x40x6mm	Kg.	15	70.08	1051.20
3	G.I Flat 75x10 mm	Kg.	20	66.78	1335.60
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
8	11 kv Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
11	Earthing Sets H.T	Nos.	3	342.00	1026.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	Coal	Kg.	200	15.00	3000.00
14	Salt	Kg.	200	7.00	1400.00
15	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	196242.40

Sheet
No.6

Cost data for Control cable 2 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
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1	Land Development (As per table A) Hybrid	150490
2	Control room (As per table B) Hybrid	2930526.21
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D) Hybrid	230185
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	537350.16
8	Metal Spreading (As per table F) Hybrid	96212
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	86289.2
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	86289.2
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	52836.00
13	Borewell including pumpset and allied accessories. (As per table I) Hybrid	101071.00
14	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	173239.75
15	Construction of retaining wall. (As per table K) Hybrid	549876.50
16	Rain Water Harvesting (As per Table L) Indoor	56519.24
17	Culvert (As per Table M) Indoor	138225.00
	Total=	5289109.26

Item Code No.0104D					
Cost data for 33/11 kV 2 X 10 MVA New S/S33 kV Outdoor & 11 kV Indoor with RSJ pole structure					
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	4	13571.00	54284.00
2	33 KV Isolators with EB (800 A)	Set	2	55190.00	110380.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	50510.00	252550.00
4	33 KV Post Insulator	Nos	6	918.00	5508.00
5	RSJ 125x70, 8 m long	Nos	16	4683.00	74928.00
6	G.I.Channel 100x50x6mm	Kg.	3300	70.08	231264.00
7	G.I.Angle 75x40 mm	Kg.	200	70.08	14016.00
8	G.I Flat 50x10 mm	Kg.	160	66.78	10684.80
9	Disc Insulator 11 KV 70 KN	Nos	36	344.00	12384.00
10	AAAC 232 mm2	MTR	200	127.40	25480.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	603.00	7236.00
12	Earthing complete as per Sheet no.1	Set	2	240980.00	481960.00
13	Power Transformer 33/11 KV, 10 MVA	No	2	4687202.00	9374404.00
14	33 KV P.T.	Nos	3	18876.00	56628.00
15	33 kV C. T. (400-200/1-1-1)	Nos	6	25011.00	150066.00
16	33 KV VCB complete 1600 Amp (O.D.)	Set	2	204195.00	408390.00
17	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	2	56858.00	113716.00
18	33 kV Pin Insulators with G.I. Pins	Nos	12	541.00	6492.00
19	Structure for 33 KV CT & PT as per Sheet no.2	No	2	48071.00	96142.00
20	G.I.Nut Bolts	KG	150	82.90	12435.00
21	Marshalling Box	No.	2	4284.00	8568.00
B	11 KV SIDE				
22	11kV I D switchgear (2 I/c+1 B/c+8O/G)	Set	1	3117222.00	3117222.00
23	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	600	1194.00	716400.00
24	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	8	1662.00	13296.00
25	Clamps and Connectors as per Sheet no.3	No.	1	335130.00	335130.00
26	S/S Yard lighting as per Sheet no.4	No.	1	215879.00	215879.00
27	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
28	11/0.43 KV x 100 KVA station Transformer as per Sheet no.5	No.	1	196242.40	196242.40
29	Control cables for S/S as per Sheet no.6	No.	1	171605.90	171605.90
30	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
D	Cost of material				16369616.10
1	Transportation on material	4.00%			654785
2	T&P on material cost	1.00%			163696
3	Contingencies on material	2.50%			409240
5	Erection cost on material	5.00%			818481
6	Contractor supervision charges on material	5.00%			818481



7	Insurance , Labour & Finance Cost	3.00%	491088
	Service Cost		3355771
	Sub-Total		19725387
8	Turnkey Charges	5.00%	986269
	Total		20711657
9	Civil Works As per Sheet 'C'	No. 1	5314200
	Total Cost of Estimate		26025857

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	26364904	20711657
Civil Works As per Sheet 'C'	6773527	5314200
Total Cost of the Estimate	33138430	26025857

Sheet
No.1

Cost data for Earthing Work at 2x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
Total:					240980.00

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 2x10 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No.3

Cost data for Clamps & Connectors at 2x10 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
Total:					335130.00

Sheet
No.4

Cost data for Yard Lighting of 2X 10 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00



4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cum	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.5

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 10 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	70.08	20323.20
2	G.I.Channel 75x40x6mm	Kg.	15	70.08	1051.20
3	G.I Flat 75x10 mm	Kg.	20	66.78	1335.60
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
8	11 kv Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
11	Earthing Sets H.T	Nos.	3	342.00	1026.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	Coal	Kg.	200	15.00	3000.00
14	Salt	Kg.	200	7.00	1400.00
15	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	196242.40

Sheet
No.6

Cost data for Control cable 2 X 10 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) Hybrid	150490
2	Control room (As per table B) Hybrid	2930526.21
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D) Hybrid	230185
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	537350.16
8	Metal Spreading (As per table F) Hybrid	96212
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	86289.2
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	86289.2
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	25090.97
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	52836.00
13	Borewell including pumpset and allied accessories. (As per table I) Hybrid	101071.00
14	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	173239.75
15	Construction of retaining wall. (As per table K) Hybrid	549876.50
16	Rain Water Harvesting (As per Table L) Indoor	56519.24



17	Culvert (As per Table M) Indoor	138225.00	
Total=		5314200.23	

Item Code No. 0201					
Cost data for Augmentation of 33/11 KV, 1x3.15 MVA to 1x5 MVA Power T/F (Outdoor)[if associated switch gears available]					

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	Power Transformer 33/11 KV, 5 MVA	No	1	3003469.00	3003469.00

D	Cost of material				3003469.00
1	Transportation on material	4.00%			120139
2	T&P on material cost	1.00%			30035
3	Contingencies on material	2.50%			75087
5	Erection cost on material	5.00%			150173
6	Contractor supervision charges on material	5.00%			150173
7	Insurance , Labour & Finance Cost	3.00%			90104
	Service Cost				615711
	Sub-Total				3619180
8	Turnkey Charges	5.00%			180959
	Total				3800139

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	4837387	3800139
Total Cost of the Estimate	4837387	3800139

Item Code No. 0202					
Cost data for Augmentation of 33/11 KV, 1x5 MVA to 1x10 MVA Power T/F (Outdoor)					

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	Power Transformer 33/11 KV, 10 MVA	No	1	4687202.00	4687202.00
2	C&R panel for 33 KV Transformer with Diff. Protection	No	1	62334.00	62334.00
3	AAAC 232 mm2	Mtr	75	127.40	9555.00
4	33 KV C. T. (400-200/1-1-1)	Nos	3	25011.00	75033.00
B	11 KV Side				
1	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isulators, C.T. & P.T. etc.	Set	1	852243.00	852243.00
2	Clamps and Connectors as per Sheet no.1	No.	1	189486.00	189486.00
3	Take off structure for 3 outgoing feeder as per Sheet no.2	No.	1	256151.20	256151.20
4	Structure for 11 KV Main Bus as per Sheet no.3	No.	1	213971.20	213971.20
5	Armoured Copper control cable 7Cx2.5 sq.mm.	mtr	125	139.19	17398.75

D	Cost of material				6363374.15
1	Transportation on material	4.00%			254535
2	T&P on material cost	1.00%			63634
3	Contingencies on material	2.50%			159084
5	Erection cost on material	5.00%			318169
6	Contractor supervision charges on material	5.00%			318169
7	Insurance , Labour & Finance Cost	3.00%			190901
	Service Cost				1304492
	Sub-Total				7667866
8	Turnkey Charges	5.00%			383393
	Total				8051259

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost of Material	10248850	8051259
Total Cost of the Estimate	10248850	8051259



Sheet
No. 1

Cost data for Clamps & Connectors at 1x 10 MVA,3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	189486.00

Sheet
No : 2

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 100 mm ²	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	256151.20

Sheet
No.3

Cost data for Structure of 11 KV Main Bus at 1x5MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 100 mm ²	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	213971.20

Item Code No. 0203

Cost data for Augmentation of 33/11 KV, 1x3.15 MVA to 1x10 MVA Power T/F (Outdoor)

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
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1	Power Transformer 33/11 KV, 10 MVA	No	1	4687202.00	4687202.00
2	C&R panel for 33 KV Transformer with Diff. Protection	No	1	62334.00	62334.00
3	33 kv C. T. (400-200/1-1-1)	Nos	3	25011.00	75033.00
4	33 KV VCB complete 1600 Amp (O.D.)	Set	1	204195.00	204195.00
5	33 KV Lightning Arrestors (Station type)	Set	2	13571.00	27142.00
6	33 KV Isolators without EB (800 Amp.)	Set	2	50510.00	101020.00
7	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
8	AAAC 232 mm2	Mtr	300	127.40	38220.00
9	Structure for 33 KV CT as per Sheet no.1	No	1	27299.00	27299.00
10	Control cables for S/S as per Sheet no.2	No.	1	17398.75	17398.75
11	Clamps and Connectors as per Sheet no.3	No.	1	168366.00	168366.00
B	11 KV Side				
1	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	852243.00	852243.00
2	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
3	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	256151.20	256151.20
4	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	213971.20	213971.20

D	Cost of material				6805111.15
1	Transportation on material	4.00%			272204
2	T&P on material cost	1.00%			68051
3	Contingencies on material	2.50%			170128
5	Erection cost on material	5.00%			340256
6	Contractor supervision charges on material	5.00%			340256
7	Insurance , Labour & Finance Cost	3.00%			204153
	Service Cost				1395048
	Sub-Total				8200159
8	Turnkey Charges	5.00%			410008
	Total				8610167

9	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor				615736
	Total Estimate				9225903

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	10960312	8610167
Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	784822	615736
Total Cost of the Estimate	11745134	9225903

Sheet No.1

Cost data of Structure for 33 KV CT & PT at 1x10 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV CT	Kg.	315	51.80	16317.00
2	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
3	Structure for Power T/F Neutral Earthing	Kg.	25	51.80	1295.00
4	G.I.Nut Bolts	Kg.	20	82.90	1658.00
	Total:				27299.00

Sheet No.2

Cost data for Control cable 1 X 10 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 7Cx2.5 sq.mm.	mtr	125	139.19	17398.75
	TOTAL				17398.75

Sheet No. 3

Cost data for Clamps & Connectors at 1x 10 MVA, 3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
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1	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	168366.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 100 mm2	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	256151.20

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 1x10MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 100 mm2	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	213971.20

Item Code No. 0204

Cost data for Augmentation of 33/11 KV, 1x3.15 MVA to 1x5 MVA Power T/F (Outdoor)[if associated switch gear not available]

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	Power Transformer 33/11 KV, 5 MVA	No	1	3003469.00	3003469.00
2	33 KV P.T.	Nos	3	18876.00	56628.00
3	33 kV C. T. (400-200/1-1-1)	Nos	3	25011.00	75033.00
4	33 KV VCB complete 1600 Amp (O.D.)	Set	1	204195.00	204195.00
5	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
6	33 KV Isolators without EB (800 Amp.)	Set	3	50510.00	151530.00
7	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
8	Structure for 33 KV CT & PT as per Sheet no.1	No	1	48071.00	48071.00
9	Control cables for S/S as per Sheet no.2	No.	1	85383.45	85383.45



10	Clamps and Connectors as per Sheet no.3	No.	1	189486.00	189486.00
11	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56858.00	56858.00

D Cost of material 3997843.45

1	Transportation on material	4.00%	159914
2	T&P on material cost	1.00%	39978
3	Contingencies on material	2.50%	99946
5	Erection cost on material	5.00%	199892
6	Contractor supervision charges on material	5.00%	199892
7	Insurance , Labour & Finance Cost	3.00%	119935
Service Cost			819558
Sub-Total			4817401
8	Turnkey Charges	5.00%	240870

Total 5058271

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	6438927	5058271
Total Cost of the Estimate	6438927	5058271

Sheet
No.1

Cost data of Structure for 33 KV CT & PT at 1x5 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No.2

Cost data for Control cable 1 X 5 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

Sheet
No. 3

Cost data for Clamps & Connectors at 1x 5 MVA, 33/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	189486.00

Item Code No. 0205

Cost data for Augmentation of 33/11 KV, 2x3.15 MVA to 2x5 MVA Power T/F (Outdoor)[if associated switch gears available]

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
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1	Power Transformer 33/11 KV, 5 MVA	No	2	3003469.00	6006938.00
2	33 KV C. T. (400-200/1-1-1)	Nos	6	25011.00	150066.00
3	33 KV VCB complete 1600 Amp (O.D.)	Set	2	204195.00	408390.00
4	33 KV Lightning Arrestors (Station type)	Set	2	13571.00	27142.00
5	33 KV Isolators without EB (800 Amp.)	Set	4	50510.00	202040.00
6	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
6	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
7	Clamps and Connectors as per Sheet no.5	No.	1	189486.00	189486.00
9	Control cables for S/S as per Sheet no.7	No.	2	85383.45	170766.90
10	Structure for 33 KV CT & PT as per Sheet no.3	No	2	48071.00	96142.00
11	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	121541.00	121541.00
12	Earthing complete as per Sheet no.2	Set	1	240980.00	240980.00
13	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	852243.00	852243.00
14	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	213971.20	213971.20
15	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	256151.20	256151.20

D Cost of material 8993583.30

1	Transportation on material	4.00%	359743
2	T&P on material cost	1.00%	89936
3	Contingencies on material	2.50%	224840
5	Erection cost on material	5.00%	449679
6	Contractor supervision charges on material	5.00%	449679
7	Insurance , Labour & Finance Cost	3.00%	269807
	Service Cost		1843685
	Sub-Total		10837268
8	Turnkey Charges	5.00%	541863

Total 11379131

9 Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor 615736

Total Cost of Estimate

11994867

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	14485065	11379131
Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0	0
Total Cost of the Estimate	14485065	11379131

--

Sheet
No.1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	48500.00	96224.00
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	48500.00	25317.00
Total:					121541.00

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
Total:					240980.00



Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 100 mm ²	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	256151.20

Sheet
No. 5

Cost data for Clamps & Connectors at 1x 5 MVA, 3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	189486.00

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 1x5MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00



7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 100 mm ²	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	213971.20

Sheet
No - 7

Cost data for Control cable 1 X 5 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

Item Code No. 0206

Cost data for Augmentation of 33/11 KV, 2x5 MVA to 2x10 MVA Power T/F (Outdoor)

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	Power Transformer 33/11 KV, 10 MVA	No	2	4687202.00	9374404.00
2	C&R panel for 33 KV Transformer with Diff. Protection	No	2	62334.00	124668.00
3	AAAC 232 mm ²	Mtr	300	127.40	38220.00
4	33 kv C. T. (400-200/1-1-1)	Nos	6	25011.00	150066.00
5	Clamps and Connectors as per Sheet no.1	No.	1	251340.00	251340.00
B	11 KV Side				
1	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	2	852243.00	1704486.00
2	Take off structure for 3 outgoing feeder as per Sheet no.2	No.	2	274659.20	549318.40
3	Structure for 11 KV Main Bus as per Sheet no.3	No.	2	213971.20	427942.40
4	Armoured Copper control cable 7Cx2.5 sq.mm.	mtr	250	139.19	34797.50

D **Cost of material** **12655242.30**

1	Transportation on material	4.00%	506210
2	T&P on material cost	1.00%	126552
3	Contingencies on material	2.50%	316381
5	Erection cost on material	5.00%	632762
6	Contractor supervision charges on material	5.00%	632762
7	Insurance , Labour & Finance Cost	3.00%	379657
Service Cost			2594325
Sub-Total			15249567
8	Turnkey Charges	5.00%	762478

Total **16012045**

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	20382533	16012045
Total Cost of the Estimate	20382533	16012045

Sheet
No. 1

Cost data for Clamps & Connectors at 2x 10 MVA, 3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				



a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
	Total:				251340.00

Sheet
No : 2

Cost data for Take off structure for 11 KV Feeders 3 outlets at 2x10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	9254.00	74032.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 100 mm2	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
	Total:				274659.20

Sheet
No.3

Cost data for Structure of 11 KV Main Bus at 2x10MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 100 mm2	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00
	Total:				213971.20

Item Code No. 0301

Cost data for 33/11 KV, 1x5 MVA Additional Power T/F (Outdoor) without Gantry structure

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	13571.00	27142.00
2	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	50510.00	151530.00
4	33 KV Post Insulator	Nos	3	918.00	2754.00



5	Earthing complete as per sheet No. 1	Set	1	240980.00	240980.00
6	Power Transformer 33/11 KV, 5 MVA	No	1	3003469.00	3003469.00
7	33 KV C. T. (400-200/1-1-1)	Nos	3	25011.00	75033.00
8	33 KV VCB complete 1600 Amp (O.D.)	Set	1	204195.00	204195.00
9	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56858.00	56858.00
10	Structure for 33 KV CT as per Sheet no. 2	No	1	31754.00	31754.00
11	G.I.Nut Bolts	KG	100	82.90	8290.00
B	11 KV SIDE				
12	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	1	852243.00	852243.00
13	11 kv Pin Insulators with G.I. Pins	No	12	135.00	1620.00
14	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
15	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	256151.20	256151.20
16	Clamps and Connectors as per Sheet no. 4	No.	1	185136.00	185136.00
17	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	213971.20	213971.20
18	Control cables for S/S as per Sheet no.6	No.	1	85383.45	85383.45

D Cost of material 5452967.85

1	Transportation on material	4.00%	218119
2	T&P on material cost	1.00%	54530
3	Contingencies on material	2.50%	136324
5	Erection cost on material	5.00%	272648
6	Contractor supervision charges on material	5.00%	272648
7	Insurance , Labour & Finance Cost	3.00%	163589
	Service Cost		1117858
	Sub-Total		6570826
8	Turnkey Charges	5.00%	328541

Total 6899368

9	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	No.	1	615735.90	615736
	Total Cost of Estimate				7515103

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	8782550	6899368
Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	784822	615736
Total Cost of the Estimate	9567372	7515103

Sheet No.1

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
	Total:				240980.00

Sheet No.2

Cost data of Structure for 33 KV CT & LA at 1x5 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV CT	Kg.	360	51.80	18648.00
2	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
3	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
4	G.I.Nut Bolts	Kg.	30	82.90	2487.00
	Total:				31754.00



Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 5 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 100 mm2	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	256151.20

Sheet
No. 4

Cost data for Clamps & Connectors at 1x 5 MVA, 3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	185136.00

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 1x 5 MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 100 mm2	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	213971.20



Sheet
No.6

Cost data for Control cable 1 X 5 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

Item Code No. 0302					
Cost data for Additional 33/11 KV, 1x 10 MVA (Outdoor) without Gantry Structure					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	13571.00	27142.00
2	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	50510.00	151530.00
4	33 KV Post Insulator	Nos	3	918.00	2754.00
5	Disc Insulator 11 KV 70 KN	Nos	18	344.00	6192.00
6	AAAC 232 mm2	MTR	200	127.40	25480.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	6	603.00	3618.00
8	Earthing complete as per Sheet no.1	Set	1	240980.00	240980.00
9	Power Transformer 33/11 KV, 10 MVA	No	1	4687202.00	4687202.00
10	33 kv C. T. (400-200/1-1-1)	Nos	3	25011.00	75033.00
11	33 KV VCB complete 1600 Amp (O.D.)	Set	1	204195.00	204195.00
12	C&R panel for 33 KV Transformer with Diff. Protection	No	1	62334.00	62334.00
13	33 KV Pin Insulators with G.I. Pins	Nos	6	541.00	3246.00
14	Structure for 33 KV CT as per Sheet no.2	No	1	31754.00	31754.00
15	G.I.Nut Bolts	KG	150	82.90	12435.00
B	11 KV SIDE				
16	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	852243.00	852243.00
17	11 kv Pin Insulators with G.I. Pins	No	12	135.00	1620.00
18	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
19	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	327608.20	327608.20
20	Clamps and Connectors as per Sheet no.4	No.	1	189906.00	189906.00
21	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	266852.20	266852.20
22	Control cables for S/S as per Sheet no.6	No.	1	85383.45	85383.45
23	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material

7338290.85

1	Transportation on material	4.00%	293532
2	T&P on material cost	1.00%	73383
3	Contingencies on material	2.50%	183457
5	Erection cost on material	5.00%	366915
6	Contractor supervision charges on material	5.00%	366915
7	Insurance , Labour & Finance Cost	3.00%	220149
Service Cost			1504350
Sub-Total			8842640
8	Turnkey Charges	5.00%	442132

Total

9284772

9	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	No.	1	615735.90	615736
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Total Cost of Estimate

9900508

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	11819051	9284772



Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	784822	615736
Total Cost of the Estimate	12603874	9900508

Sheet
No.1

Cost data for Earthing Work at 1x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	240980.00

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 1x10 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV CT	Kg.	360	51.80	18648.00
2	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
3	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
4	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	31754.00

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for AAC232 sq.mm.	Nos.	36	603.00	21708.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 232 mm ²	Rmt.	150	127.40	19110.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.00	12924.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	327608.20

Sheet
No. 4

Cost data for Clamps & Connectors at 1x 10 MVA, 3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	30	718.00	21540.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	189906.00



Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 1x10MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
7	11 kv Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 232 mm2	Rmt.	150	127.40	19110.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	266852.20

Sheet
No.6

Cost data for Control cable 1 X 10 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

Item Code No. 0301A

Cost data for 33/11 KV, 1x5 MVA Additional Power T/F (Outdoor) with Gantry structure for 33 KV bus

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	13571.00	27142.00
2	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	50510.00	151530.00
4	33 KV Post Insulator	Nos	3	918.00	2754.00
5	Disc Insulator 11 KV 70 KN	Nos	18	344.00	6192.00
6	AAAC 232 mm2	MTR	200	127.40	25480.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	6	603.00	3618.00
8	Earthing complete as per sheet No. 1	Set	1	240980.00	240980.00
9	Power Transformer 33/11 KV, 5 MVA	No	1	3003469.00	3003469.00
10	33 kv C. T. (400-200/1-1-1)	Nos	3	25011.00	75033.00
11	33 KV VCB complete 1600 Amp (O.D.)	Set	1	204195.00	204195.00
12	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56858.00	56858.00
13	Structure for 33 KV CT as per Sheet no. 2	No	1	31754.00	31754.00
14	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.7	Nos	1	121541.00	121541.00
15	33 kv Pin Insulators with G.I. Pins	Nos	6	541.00	3246.00
16	G.I.Nut Bolts	KG	100	82.90	8290.00
17	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
B	11 KV SIDE				
18	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	1	852243.00	852243.00
19	11 kv Pin Insulators with G.I. Pins	No	12	135.00	1620.00
20	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
21	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	256151.20	256151.20
22	Clamps and Connectors as per Sheet no. 4	No.	1	185136.00	185136.00
23	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	213971.20	213971.20
24	Control cables for S/S as per Sheet no.6	No.	1	85383.45	85383.45



D	Cost of material			5617244.85
1	Transportation on material	4.00%		224690
2	T&P on material cost	1.00%		56172
3	Contingencies on material	2.50%		140431
5	Erection cost on material	5.00%		280862
6	Contractor supervision charges on material	5.00%		280862
7	Insurance , Labour & Finance Cost	3.00%		168517
	Service Cost			1151535
	Sub-Total			6768780
8	Turnkey Charges	5.00%		338439
	Total			7107219

9	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	No.	1	615735.90	615736
	Total Cost of Estimate				7722955

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	9047135	7107219
Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	784822	615736
Total Cost of the Estimate	9831957	7722955

Sheet No.1

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	240980.00

Sheet No.2

Cost data of Structure for 33 KV CT & LA at 1x5 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV CT	Kg.	360	51.80	18648.00
2	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
3	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
4	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	31754.00

Sheet No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 5 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00



11	AAAC 100 mm2	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	256151.20

Sheet
No. 4

Cost data for Clamps & Connectors at 1x 5 MVA, 3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	185136.00

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 1x 5 MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
7	11 kv Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 100 mm2	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	213971.20

Sheet
No.6

Cost data for Control cable 1 X 5 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

Sheet
No.7

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 1x 5 MVA & 1x10 MVA 33/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	48500.00	96224.00



2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	48500.00	25317.00
				Total:	121541.00

Item Code No. 0302A					
Cost data for Additional 33/11 KV, 1x 10 MVA (Outdoor) with Gantry structure for 33 KV bus.					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	13571.00	27142.00
2	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	50510.00	151530.00
4	33 KV Post Insulator	Nos	3	918.00	2754.00
5	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	121541.00	121541.00
6	Disc Insulator 11 KV 70 KN	Nos	18	344.00	6192.00
7	AAAC 232 mm2	MTR	200	127.40	25480.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	6	603.00	3618.00
9	Earthing complete as per Sheet no.2	Set	1	240980.00	240980.00
10	Power Transformer 33/11 KV, 10 MVA	No	1	4687202.00	4687202.00
11	33 KV C. T. (400-200/1-1-1)	Nos	3	25011.00	75033.00
12	33 KV VCB complete 1600 Amp (O.D.)	Set	1	204195.00	204195.00
13	C&R panel for 33 KV Transformer with Diff. Protection	No	1	62334.00	62334.00
14	33 KV Pin Insulators with G.I. Pins	Nos	6	541.00	3246.00
15	Structure for 33 KV CT & LA as per Sheet no.3	No	1	31754.00	31754.00
16	G.I.Nut Bolts	KG	150	82.90	12435.00
17	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
B	11 KV SIDE				
18	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	852243.00	852243.00
19	11 kV Pin Insulators with G.I. Pins	No	12	135.00	1620.00
20	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
21	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	327608.20	327608.20
22	Clamps and Connectors as per Sheet no.5	No.	1	189906.00	189906.00
23	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	266852.20	266852.20
24	Control cables for S/S as per Sheet no.7	No.	1	85383.45	85383.45
25	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material

7464031.85

1	Transportation on material	4.00%	298561
2	T&P on material cost	1.00%	74640
3	Contingencies on material	2.50%	186601
5	Erection cost on material	5.00%	373202
6	Contractor supervision charges on material	5.00%	373202
7	Insurance , Labour & Finance Cost	3.00%	223921

Service Cost

1530127

Sub-Total

8994158

8	Turnkey Charges	5.00%	449708
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Total

9443866

9	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	No.	1	615735.90	615736
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Total Cost of Estimate

10059602

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	12021570	9443866
Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	784822	615736
Total Cost of the Estimate	12806392	10059602



Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	48500.00	96224.00
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	48500.00	25317.00
				Total:	121541.00

Sheet
No.2

Cost data for Earthing Work at 1x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	240980.00

Sheet
No.3

Cost data of Structure for 33 KV CT & LA at 1x5 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV CT	Kg.	360	51.80	18648.00
2	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
3	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
4	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	31754.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 232 mm2	Rmt.	150	127.40	19110.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.00	12924.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	327608.20

Sheet
No. 5

Cost data for Clamps & Connectors at 1x 5 MVA, 3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	30	718.00	21540.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	189906.00



Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 1x5MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 232 mm2	Rmt.	150	127.40	19110.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	266852.20

Sheet
No.7

Cost data for Control cable 1 X 5 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

Item Code No.0301B

Cost data for 33/11 KV, 1x5 MVA Additional Power T/F, 33 kV Outdoor, 11 kV Indoor, without Gantry structure

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	13571.00	27142.00
2	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	50510.00	151530.00
4	33 KV Post Insulator	Nos	3	918.00	2754.00
5	Disc Insulator 11 KV 70 KN	Nos	18	344.00	6192.00
6	AAAC 232 mm2	MTR	200	127.40	25480.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	6	603.00	3618.00
8	Earthing complete as per Sheet no.1	Set	1	270490.00	270490.00
9	Power Transformer 33/11 KV, 5 MVA	No	1	3003469.00	3003469.00
10	33 KV P.T.	Nos	3	18876.00	56628.00
11	33 kV C. T. (400-200/1-1-1)	Nos	3	25011.00	75033.00
12	33 KV VCB complete 1600 Amp (O.D.)	Set	1	204195.00	204195.00
13	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56858.00	56858.00
14	33 kV Pin Insulators with G.I. Pins	Nos	6	541.00	3246.00
15	Structure for 33 KV CT & LA as per Sheet no.2	No	1	31754.00	31754.00
16	G.I.Nut Bolts	KG	150	82.90	12435.00
17	Marshalling Box	No.	1	4284.00	4284.00
18	Clamps and Connectors as per Sheet no.3	No.	1	273276.00	273276.00
B	11 KV SIDE				
19	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1703020.00	1703020.00
20	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	300	1194.00	358200.00
21	11 KV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	4	1662.00	6648.00
22	Control cables for S/S as per Sheet no.4	No.	1	85383.45	85383.45
23	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D Cost of material

6441150.45



1	Transportation on material	4.00%	257646
2	T&P on material cost	1.00%	64412
3	Contingencies on material	2.50%	161029
5	Erection cost on material	5.00%	322058
6	Contractor supervision charges on material	5.00%	322058
7	Insurance , Labour & Finance Cost	3.00%	193235
	Service Cost		1320436
	Sub-Total		7761586
8	Turnkey Charges	5.00%	388079
	Total		8149666

9	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor		615736
	Total Cost of Estimate		8765402

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	10374117	8149666
Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	784822	615736
Total Cost of the Estimate	11158939	8765402

Sheet
No.1

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I.Flat 50 x 6 mm	Kg.	1500	66.78	100170.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2900.00	2900.00
	Total:				270490.00

Sheet
No.2

Cost data of Structure for 33 KV CT & LA at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV CT	Kg.	360	51.80	18648.00
2	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
3	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
4	G.I.Nut Bolts	Kg.	30	82.90	2487.00
	Total:				31754.00

Sheet
No.3

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
	Total:				273276.00

Sheet
No.4

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
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1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

Item Code No.0302B					
Cost data for 33/11 KV, 1x10 MVA Additional Power T/F, 33 kV Outdoor, 11 kV Indoor, without Gantry structure					
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	13571.00	27142.00
2	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	50510.00	151530.00
4	33 KV Post Insulator	Nos	3	918.00	2754.00
5	Disc Insulator 11 KV 70 KN	Nos	18	344.00	6192.00
6	AAAC 232 mm2	MTR	200	127.40	25480.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	6	603.00	3618.00
8	Earthing complete as per Sheet no.1	Set	1	240980.00	240980.00
9	Power Transformer 33/11 KV, 10 MVA	No	1	4687202.00	4687202.00
10	33 KV P.T.	Nos	3	18876.00	56628.00
11	33 KV C. T. (400-200/1-1-1)	Nos	3	25011.00	75033.00
12	33 KV VCB complete 1600 Amp (O.D.)	Set	1	204195.00	204195.00
13	C&R panel for 33 KV Transformer with Diff. Protection	No	1	62334.00	62334.00
14	33 KV Pin Insulators with G.I. Pins	Nos	6	541.00	3246.00
15	Structure for 33 KV CT & LA as per Sheet no.2	No	1	31754.00	31754.00
16	G.I.Nut Bolts	KG	150	82.90	12435.00
17	Marshalling Box	No.	1	4284.00	4284.00
18	Clamps and Connectors as per Sheet no.3	No.	1	273276.00	273276.00
B	11 KV SIDE				
19	11KV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1703020.00	1703020.00
20	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	300	1194.00	358200.00
21	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	4	1662.00	6648.00
22	Control cables for S/S as per Sheet no.4	No.	1	85383.45	85383.45
23	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D	Cost of material		8100849.45
1	Transportation on material	4.00%	324034
2	T&P on material cost	1.00%	81008
3	Contingencies on material	2.50%	202521
5	Erection cost on material	5.00%	405042
6	Contractor supervision charges on material	5.00%	405042
7	Insurance , Labour & Finance Cost	3.00%	243025
	Service Cost		1660674
	Sub-Total		9761524
8	Turnkey Charges	5.00%	488076
	Total		10249600

9	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor		615736
	Total Cost of Estimate		10865336

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	13047228	10249600
Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	784822	615736
Total Cost of the Estimate	13832051	10865336



Cost data for Earthing work at 1x5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	240980.00

Sheet
No.2

Cost data of Structure for 33 KV CT & LA at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV CT	Kg.	360	51.80	18648.00
2	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
3	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
4	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	31754.00

Sheet
No.3

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	273276.00

Sheet
No.4

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

Item Code No. 301C

Cost data for Additional 33/22 KV, 1x 5 MVA (Outdoor)

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	33 KV Lightning Arrestors (Station type)	Set	1	13571.00	13571.00
2	33 KV VCB complete 1600 Amp (O.D.)	No	1	204195.00	204195.00
3	33 kv C. T. (400-200/1-1-1)	No	3	25011.00	75033.00
4	33 KV Isolators without EB (800 Amp.)	Set	2	50510.00	101020.00
5	Power Transformer 33/22 KV 5 MVA	No	1	3207040.00	3207040.00
6	Earthing complete as per Sheet no.4	Set	1	240980.00	240980.00
7	C&R panel for 33 KV Transformer with 1 Amp. Relay	Set	1	56858.00	56858.00
8	G.I.Nut Bolts	Kg	20	82.90	1658.00
9	Marshalling Box	No	1	4284.00	4284.00
10	Fire Extinguisher with stand	Set	1	4200.00	4200.00
11	Structure for 33 KV CT/LA/Post Insulator as per Table No 1	No	1	31754.00	31754.00
22KV SIDE					
1	22 kv 500 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	1	1290945.00	1290945.00



2	22 KV Lightning Arrestors (Station type)	Set	1	11884.00	11884.00
3	22 KV Pin Insulators with G.I. Pins	No	12	336.00	4032.00
4	Clamps and Connectors as per Table No 2	No	1	185136.00	185136.00
5	Control Cables as per Table No 3	No	1	85383.45	85383.45
6	Take off structure for 3 outgoing feeder as per Sheet no.5	No.	1	267122.08	256151.20
7	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	215501.27	213971.20
TOTAL COST OF MATERIAL					5988095.85

1	Transportation on material	4.00%	239524
2	T&P on material cost	1.00%	59881
3	Contingencies on material	2.50%	149702
5	Erection cost on material	5.00%	299405
6	Contractor supervision charges on material	5.00%	299405
7	Insurance , Labour & Finance Cost	3.00%	179643
Service Cost			1227560
Sub-Total			7215655
8	Turnkey Charges	5.00%	360783
Total			7576438

9	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor		615736
Total Cost of Estimate			8192174

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	9644427	7576438
Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	784822	615736
Total Cost of the Estimate	10429250	8192174

Sheet
No.1

Cost data of Structure for 33 KV CT & LA at 1x5 MVA 33/22 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV CT	Kg.	360	51.80	18648.00
2	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
3	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
4	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	31754.00

Sheet
No. 2

Cost data for Clamps & Connectors at 1x 5 MVA, 33/22 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	185136.00

Sheet
No - 3

Cost data for Control cable 1 X 5 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50



5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

Sheet
No.4

Cost data for Earthing Work at 1x 5 MVA at 33/22 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	240980.00

Sheet
No : 5

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 100 mm2	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	256151.20

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 1x5MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 100 mm2	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	213971.20

Item Code No. 302C

Cost data for Additional 33/22 KV, 1x 10 MVA (Outdoor)



Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	33 KV Lightning Arrestors (Station type)	Set	1	13571.00	13571.00
2	33 KV VCB complete 1600 Amp (O.D.)	No	1	204195.00	204195.00
3	33 KV C. T. (400-200/1-1-1)	No	3	25011.00	75033.00
4	33 KV Isolators without EB (800 Amp.)	Set	2	50510.00	101020.00
5	Power Transformer 33/22 KV 10 MVA	No	1	4955754.00	4955754.00
6	Earthing complete as per Sheet no.4	Set	1	240980.00	240980.00
7	C&R panel for 33 KV Transformer with Diff. Protection	Set	1	62334.00	62334.00
8	G.I.Nut Bolts	Kg	20	82.90	1658.00
9	Marshalling Box	No	1	4284.00	4284.00
10	Fire Extinguisher with stand	Set	1	4200.00	4200.00
11	Structure for 33 KV CT/LA/Post Insulator as per Table No 1	No	1	31754.00	31754.00

22KV SIDE

1	22 kv 500 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	1290945.00	1290945.00
2	22 KV Lightning Arrestors (Station type)	Set	1	11884.00	11884.00
3	22 kv Pin Insulators with G.I. Pins	No	12	336.00	4032.00
4	Clamps and Connectors as per Table No 2	No	1	185136.00	185136.00
5	Control Cables as per Table No 3	No	1	85383.45	85383.45
6	Take off structure for 3 outgoing feeder as per Sheet no.5	No.	1	267122.08	267122.08
7	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	215501.27	213971.20
TOTAL COST OF MATERIAL					7742285.85

1	Transportation on material	4.00%	309691
2	T&P on material cost	1.00%	77423
3	Contingencies on material	2.50%	193557
5	Erection cost on material	5.00%	387114
6	Contractor supervision charges on material	5.00%	387114
7	Insurance , Labour & Finance Cost	3.00%	232269
Service Cost			1587169
Sub-Total			9329454
8	Turnkey Charges	5.00%	466473

Total

9795927

9	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor		615736
Total Cost of Estimate			10411663

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	12469726	9795927
Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	784822	615736
Total Cost of the Estimate	13254548	10411663

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Sheet
No.1

Cost data of Structure for 33 KV CT & PT at 1x10 MVA 33/22 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV CT	Kg.	360	51.80	18648.00
2	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
3	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
4	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					31754.00

Sheet
No. 2

Cost data for Clamps & Connectors at 1x 10 MVA, 33/22 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00



b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	185136.00

Sheet
No - 3

Cost data for Control cable 1 X 10 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

Sheet
No.4

Cost data for Earthing Work at 1x 10 MVA at 33/22 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	240980.00

Sheet
No : 5

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 100 mm ²	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	256151.20

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 1x5MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00



3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
7	11 kv Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 100 mm2	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	213971.20

Item Code No. 0401

Cost data for 22/11 KV, 1x5 MVA Substation (Outdoor)

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 22 KV SIDE					
1	22 KV Lightning Arrestors (Station type)	Set	2	11884.00	23768.00
2	22 KV Isolators with EB (800 A)	Set	1	41547.00	41547.00
3	22 KV Isolators without EB (800 Amp.)	Set	3	35680.00	107040.00
4	22 KV Post Insulator	Nos	3	835.00	2505.00
5	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	121541.00	121541.00
6	Disc Insulator 11 KV 70 KN	Nos	18	344.00	6192.00
7	AAAC 232 mm2	MTR	200	127.40	25480.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	6	603.00	3618.00
9	Earthing complete as per Sheet no.2	Set	1	240980.00	240980.00
10	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	1	3305209.00	3305209.00
11	22 KV P.T.	Nos	3	17855.00	53565.00
12	22 KV C.T. Three core.	Nos	3	24999.00	74997.00
13	22 KV VCB complete 1600 Amp (O.D.)	Set	1	179600.00	179600.00
14	C&R panel for 22 KV Transformer with 1 A relay	No	1	75834.00	75834.00
15	22 kv Pin Insulators with G.I. Pins	Nos	6	336.00	2016.00
16	Structure for 22 KV CT & PT as per Sheet no.3	No	1	48071.00	48071.00
17	G.I.Nut Bolts	KG	150	82.90	12435.00
18	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
B 11 KV SIDE					
19	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	852243.00	852243.00
20	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
21	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	256151.20	256151.20
22	11 kv Pin Insulators with G.I. Pins	No.	12	135.00	1620.00
23	Clamps and Connectors as per Sheet no.5	No.	1	183453.00	183453.00
24	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	213971.20	213971.20
25	S/S Yard lighting as per Sheet no.7	No.	1	215879.00	215879.00
26	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
27	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8.	No.	1	195591.40	195591.40
28	Control cables for S/S as per Sheet no.9	No.	1	85383.45	85383.45
29	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
D	Cost of material				6430483.25
1	Transportation on material	4.00%			257219
2	T&P on material cost	1.00%			64305
3	Contingencies on material	2.50%			160762
5	Erection cost on material	5.00%			321524
6	Contractor supervision charges on material	5.00%			321524
7	Insurance , Labour & Finance Cost	3.00%			192914
	Service Cost				1318249
	Sub-Total				7748732
8	Turnkey Charges	5.00%			387437
	Total				8136169
9	Civil works	No.	1		7233264

Total Cost of Estimate

15369433

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	10356936	8136169
Civil works	9219583	7233264
Total Cost of the Estimate	19576519	15369433

Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/steel section for 1x5 MVA Sub stn. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	48500.00	96224.00
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	48500.00	25317.00
Total:					121541.00

Sheet
No.2

Cost data for Earthing Work at 1x5 MVA at 22/11 KV sub stn. (outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
Total:					240980.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 1x5 MVA 22/11 KV Sub Stn.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	51.80	16317.00
2	Structure for 22 KV CT	Kg.	360	51.80	18648.00
3	Structure for 22 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 KV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 100 mm ²	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00



b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
			Total:		256151.20

Sheet
No. 5

Cost data for Clamps & Connectors at 1x5 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.00	18360.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 22 KV C.T.	Nos.	6	1425.00	8550.00
5	Clamps for 22 KV P.T.	Nos.	3	1425.00	4275.00
6	Clamp for 22 KV VCB	Nos.	6	2040.00	12240.00
			Total:		183453.00

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 1x5MVA, 22/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
7	11 KV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 100 mm2	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	213971.20

Sheet
No.7

Cost data for Yard Lighting of 1 x5 MVA , 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt.	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cmt.	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
					215879.00

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x5 MVA 22/11 KV sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00



3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	204.00	2040.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	150.00	7500.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
		Total:			195591.40

Sheet
No.9

Cost data for Control cable 1 X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640
2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D)	408296
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091
14	Borewell including pumpset and allied accessories. (As per table I)	101071
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.804
16	Construction of retaining wall. (As per table K)	731271.97
17	Rain Water Harvesting (As per Table L)	56519.24
18	Culvert (As per Table M)	138225
	Total=	7233264.494

Item Code No. 0402

Cost data for 22/11 KV, 1x10 MVA Substation (Outdoor)

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 KV SIDE				
1	22 KV Lightning Arrestors (Station type)	Set	2	11884.00	23768.00
2	22 KV Isolators with EB (800 A)	Set	1	41547.00	41547.00



3	22 KV Isolators without EB (800 Amp.)	Set	3	35680.00	107040.00
4	22 KV Post Insulator	Nos	3	835.00	2505.00
5	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	121541.00	121541.00
6	Disc Insulator 11 KV 70 KN	Nos	18	344.00	6192.00
7	AAAC 232 mm2	MTR	200	127.40	25480.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	6	603.00	3618.00
9	Earthing complete as per Sheet no.2	Set	1	240980.00	240980.00
10	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	1	4769649.00	4769649.00
11	22 KV P.T.	Nos	3	17855.00	53565.00
12	22 KV C.T. Three core.	Nos	3	24999.00	74997.00
13	22 KV VCB complete 1600 Amp (O.D.)	Set	1	179600.00	179600.00
14	C&R panel for 22 KV Transformer with Diff. Protection	No	1	113866.00	113866.00
15	22 KV Pin Insulators with G.I. Pins	Nos	6	336.00	2016.00
16	Structure for 22 KV CT & PT as per Sheet no.3	No	1	48071.00	48071.00
17	G.I.Nut Bolts	KG	150	82.90	12435.00
18	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
B	11 KV SIDE				
19	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	852243.00	852243.00
20	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
21	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	326816.20	326816.20
22	11 KV Pin Insulators with G.I. Pins	No.	12	135.00	1620.00
23	Clamps and Connectors as per Sheet no.5	No.	1	188223.00	188223.00
24	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	266852.20	266852.20
25	S/S Yard lighting as per Sheet no.7	No.	1	189411.00	189411.00
26	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
27	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8.	No.	1	195591.40	195591.40
28	Control cables for S/S as per Sheet no.9	No.	1	85383.45	85383.45
29	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material

8034803.25

1	Transportation on material	4.00%	321392
2	T&P on material cost	1.00%	80348
3	Contingencies on material	2.50%	200870
5	Erection cost on material	5.00%	401740
6	Contractor supervision charges on material	5.00%	401740
7	Insurance , Labour & Finance Cost	3.00%	241044

Service Cost

1647135

Sub-Total

9681938

8	Turnkey Charges	5.00%	484097
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Total

10166035

9	Civil works	No.	1	7233264
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Total Cost of Estimate

17399299

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	12940854	10166035
Civil works	9219583	7233264
Total Cost of the Estimate	22160437	17399299

Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/steel section for 1x10 MVA Sub stn. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	48500.00	96224.00
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	48500.00	25317.00
Total:					121541.00



Sheet
No.2

Cost data for Earthing Work at 1x10 MVA at 22/11 KV sub stn. (outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	240980.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 1x10 MVA 22/11 KV Sub Stn.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	51.80	16317.00
2	Structure for 22 KV CT	Kg.	360	51.80	18648.00
3	Structure for 22 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x10 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 KV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 232 mm2	Rmt.	150	127.40	19110.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.00	12924.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	326816.20

Sheet
No. 5

Cost data for Clamps & Connectors at 1x10 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	30	718.00	21540.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.00	18360.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 22 KV C.T.	Nos.	6	1425.00	8550.00
5	Clamps for 22 KV P.T.	Nos.	3	1425.00	4275.00
6	Clamp for 22 KV VCB	Nos.	6	2040.00	12240.00
				Total:	188223.00



Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 1x10MVA, 22/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 232 mm ²	Rmt.	150	127.40	19110.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	266852.20

Sheet
No.7

Cost data for Yard Lighting of 1 x10 MVA , 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	12	6300.00	75600.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	12	4815.00	57780.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	7	3027.00	21189.00
6	Red Bricks	No.	1000	5.50	5500.00
7	Sand	Cmt	6	222.00	1332.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	189411.00

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x10 MVA 22/11 KV sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	204.00	2040.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	150.00	7500.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	195591.40

Sheet
No.9

Cost data for Control cable 1 X10 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
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1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640
2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D)	408296
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091
14	Borewell including pumpset and allied accessories. (As per table I)	101071
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.804
16	Construction of retaining wall. (As per table K)	731271.97
17	Rain Water Harvesting (As per Table L)	56519.24
18	Culvert (As per Table M)	138225
	Total=	7233264.494

Item Code No.0403

Cost data for 22/11 KV, 2x5 MVA Substation (Outdoor)

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 KV SIDE				
1	22 KV Lightning Arrestors (Station type)	Set	4	11884.00	47536.00
2	22 KV Isolators with EB (800 A)	Set	2	41547.00	83094.00
3	22 KV Isolators without EB (800 Amp.)	Set	5	35680.00	178400.00
4	22 KV Post Insulator	Nos	6	835.00	5010.00
5	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	2	194970.00	389940.00
6	Disc Insulator 11 KV 70 KN	Nos	72	344.00	24768.00
7	AAAC 232 mm2	MTR	200	127.40	25480.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	603.00	7236.00
9	Earthing complete as per Sheet no.2	Set	2	240980.00	481960.00
10	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	2	3305209.00	6610418.00
11	22 KV P.T.	Nos	3	17855.00	53565.00
12	22 KV C.T. Three core.	Nos	12	24999.00	299988.00
13	22 KV VCB complete 1600 Amp (O.D.)	Set	2	179600.00	359200.00
14	C&R panel for 22 KV Transformer with 1 A relay	No	2	75834.00	151668.00
16	22 kv Pin Insulators with G.I. Pins	Nos	24	336.00	8064.00
17	Structure for 22 KV CT & PT as per Sheet no.3	No	2	48071.00	96142.00
18	G.I.Nut Bolts	KG	150	82.90	12435.00
19	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
20	Marshalling Box	Nos.	4	4284.00	17136.00
B	11 KV SIDE				
21	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	2	852243.00	1704486.00
22	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
23	Take off structure for 6 outgoing feeder as per Sheet no.4	No.	2	274659.20	549318.40



24	11 kV Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
25	Clamps and Connectors as per Sheet no.5	No.	1	183453.00	183453.00
26	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	213971.20	213971.20
27	S/S Yard lighting as per Sheet no.7	No.	1	215879.00	215879.00
28	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
29	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8.	No.	1	195591.40	195591.40
30	Control cables for S/S as per Sheet no.9	No.	2	171605.90	343211.80
31	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material **12364251.80**

1	Transportation on material	4.00%	494570
2	T&P on material cost	1.00%	123643
3	Contingencies on material	2.50%	309106
5	Erection cost on material	5.00%	618213
6	Contractor supervision charges on material	5.00%	618213
7	Insurance , Labour & Finance Cost	3.00%	370928

Service Cost **2534672**

Sub-Total **14898923**

8	Turnkey Charges	5.00%	744946
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Total **15643870**

9	Civil works	No.	1	7849000
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Total Cost of Estimate **23492870**

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	19913864	15643870
Civil works	10004405	7849000
Total Cost of the Estimate	29918269	23492870

Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/steel section for 2x5 MVA Sub stn. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
Total:					194970.00

Sheet
No.2

Cost data for Earthing Work at 2x5 MVA at 22/11 KV sub stn. (outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
Total:					240980.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 2x5 MVA 22/11 KV Sub Stn.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	51.80	16317.00
2	Structure for 22 KV CT	Kg.	360	51.80	18648.00
3	Structure for 22 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00



5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 2x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	9254.00	74032.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 100 mm2	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	274659.20

Sheet
No. 5

Cost data for Clamps & Connectors at 2x5 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.00	18360.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 22 KV C.T.	Nos.	6	1425.00	8550.00
5	Clamps for 22 KV P.T.	Nos.	3	1425.00	4275.00
6	Clamp for 22 KV VCB	Nos.	6	2040.00	12240.00
				Total:	183453.00

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 2x5MVA, 22/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 100 mm2	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	213971.20



Sheet
No.7

Cost data for Yard Lighting of 2x5 MVA , 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cmt	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
					215879.00

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x5 MVA 22/11 KV sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount	
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00	
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00	
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00	
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00	
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00	
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00	
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00	
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00	
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00	
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	204.00	2040.00	
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	150.00	7500.00	
12	Earthing Sets H.T	Nos.	3	342.00	1026.00	
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20	
14	Coal	Kg.	200	15.00	3000.00	
15	Salt	Kg.	200	7.00	1400.00	
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20	
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00	
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00	
					Total:	195591.40

Sheet
No.9

Cost data for Control cable 2X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount	
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50	
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40	
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00	
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00	
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00	
6	Miscellaneous material	L.S	1	475.00	475.00	
					TOTAL	171605.90

C

Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640
2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D)	408296
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28



8	Metal Spreading (As per table F)	141360	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720	
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	615735.9	
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0	
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0	
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091	
14	Borewell including pumpset and allied accessories. (As per table I)	101071	
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.804	
16	Construction of retaining wall. (As per table K)	731271.97	
17	Rain Water Harvesting (As per Table L)	56519.24	
18	Culvert (As per Table M)	138225	
	Total=	7849000.394	

Item Code No. 0404					
Cost data for 22/11 KV, 2x10 MVA Substation (Outdoor)					
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 KV SIDE				
1	22 KV Lightning Arrestors (Station type)	Set	4	11884.00	47536.00
2	22 KV Isolators with EB (800 A)	Set	2	41547.00	83094.00
3	22 KV Isolators without EB (800 Amp.)	Set	5	35680.00	178400.00
4	22 KV Post Insulator	Nos	6	835.00	5010.00
5	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	2	194970.00	389940.00
6	Disc Insulator 11 KV 70 KN	Nos	36	344.00	12384.00
7	AAAC 232 mm2	MTR	200	127.40	25480.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	603.00	7236.00
9	Earthing complete as per Sheet no.2	Set	2	240980.00	481960.00
10	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	2	4769649.00	9539298.00
11	22 KV P.T.	Nos	3	17855.00	53565.00
12	22 KV C.T. Three core.	Nos	6	24999.00	149994.00
13	22 KV VCB complete 1600 Amp (O.D.)	Set	2	179600.00	359200.00
14	C&R panel for 22 KV Transformer with Diff. Protection	No	2	113866.00	227732.00
16	22 kv Pin Insulators with G.I. Pins	Nos	12	336.00	4032.00
17	Structure for 22 KV CT & PT as per Sheet no.3	No	2	48071.00	96142.00
18	G.I.Nut Bolts	KG	150	82.90	12435.00
19	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
B	11 KV SIDE				
20	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	2	852243.00	1704486.00
21	Take off structure for 6 outgoing feeder as per Sheet no.4	No.	2	345324.20	690648.40
22	11 kv Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
23	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
24	Clamps and Connectors as per Sheet no.5	No.	1	188223.00	188223.00
25	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	266852.20	266852.20
26	S/S Yard lighting as per Sheet no.7	No.	1	215879.00	215879.00
27	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
28	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	199541.40	199541.40
29	Control cables for S/S as per Sheet no.9	No.	1	171605.90	171605.90
30	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material

15216974.90

1	Transportation on material	4.00%	608679
2	T&P on material cost	1.00%	152170
3	Contigencies on material	2.50%	380424
5	Erection cost on material	5.00%	760849
6	Contractor supervision charges on material	5.00%	760849
7	Insurance , Labour & Finance Cost	3.00%	456509
	Service Cost		3119480
	Sub-Total		18336455



8	Turnkey Charges	5.00%	916823
Total			19253277

9	Civil works	No. 1	7874091
Total Cost of Estimate			27127369

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	24508460	19253277
Civil works	10036387	7874091
Total Cost of the Estimate	34544846	27127369

Cost data for 22 KV Gantry M.S.Structure/Steel Section for 2x 10 MVA, 22/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
Total:					194970.00

Sheet
No.2

Cost data for Earthing Work at 2x 10 MVA at 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
Total:					240980.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 2x 10 MVA, 22/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	51.80	16317.00
2	Structure for 22 KV CT	Kg.	360	51.80	18648.00
3	Structure for 22 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 2x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	9254.00	74032.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kv Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 232 mm2	Rmt.	150	127.40	19110.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00



15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.00	12924.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	345324.20

Sheet
No. 5

Cost data for Clamps & Connectors at 2x10 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	30	718.00	21540.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.00	18360.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 22 KV C.T.	Nos.	6	1425.00	8550.00
5	Clamps for 22 KV P.T.	Nos.	3	1425.00	4275.00
6	Clamp for 22 KV VCB	Nos.	6	2040.00	12240.00
				Total:	188223.00

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 2X10MVA, 22/11 KV Sub-station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
7	11 KV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 232 mm2	Rmt.	150	127.40	19110.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	266852.20

Sheet
No.7

Cost data for Yard Lighting of 2X10 MVA, 22/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt.	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cum	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x10 MVA 22/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00



3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	199541.40

Sheet
No.9

Cost data Control cable 2 X10 MVA 22/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640
2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D)	408296
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	615735.9
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	25090.97
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091
14	Borewell including pumpset and allied accessories. (As per table I)	101071
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.804
16	Construction of retaining wall. (As per table K)	731271.97
17	Rain Water Harvesting (As per Table L)	56519.24
18	Culvert (As per Table M)	138225
	Total=	7874091.364

Item Code No. 0405

Cost data for 22/11 KV,1x5 MVA & 1x10 MVA Outdoor Substation

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 KV SIDE				
1	22 KV Lightning Arrestors (Station type)	Set	4	11884.00	47536.00
2	22 KV Isolators with EB (800 A)	Set	2	41547.00	83094.00
3	22 KV Isolators without EB (800 Amp.)	Set	10	35680.00	356800.00



4	22 KV Post Insulator	Nos	6	835.00	5010.00
5	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	2	194970.00	389940.00
6	Disc Insulator 11 KV 70 KN	Nos	72	344.00	24768.00
7	AAAC 232 mm2	MTR	200	127.40	25480.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	603.00	7236.00
9	Earthing complete as per Sheet no.2	Set	2	240980.00	481960.00
10	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	1	3305209.00	3305209.00
11	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	1	4769649.00	4769649.00
12	22 KV P.T.	Nos	3	17855.00	53565.00
13	22 KV C.T. Three core.	Nos	12	24999.00	299988.00
14	22 KV VCB complete 1600 Amp (O.D.)	Set	2	179600.00	359200.00
15	C&R panel for 22 KV Transformer with Diff. Protection	No	1	113866.00	113866.00
16	C&R panel for 22 KV Transformer with 1 A relay	No	1	75834.00	75834.00
17	22 kv Pin Insulators with G.I. Pins	Nos	24	336.00	8064.00
18	Structure for 22 KV CT & PT as per Sheet no.3	No	2	48071.00	96142.00
19	G.I.Nut Bolts	KG	150	82.90	12435.00
20	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
21	Marshalling Box	Nos.	4	4284.00	17136.00
B	11 KV SIDE				
22	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	2	852243.00	1704486.00
23	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
24	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	333078.20	666156.40
25	11 kv Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
26	Clamps and Connectors as per Sheet no.5	No.	1	188223.00	188223.00
27	Structure for 11 KV Main Bus as per Sheet no.6	No.	2	281333.20	562666.40
28	S/S Yard lighting as per Sheet no.7	No.	1	215879.00	215879.00
29	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
30	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8.	No.	1	195591.40	195591.40
31	Control cables for S/S as per Sheet no.9	No.	2	171605.90	343211.80
32	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material

14515427.00

1	Transportation on material	4.00%	580617
2	T&P on material cost	1.00%	145154
3	Contingencies on material	2.50%	362886
5	Erection cost on material	5.00%	725771
6	Contractor supervision charges on material	5.00%	725771
7	Insurance , Labour & Finance Cost	3.00%	435463

Service Cost

2975663

Sub-Total

17491090

8	Turnkey Charges	5.00%	874554
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Total

18365644

9	Civil works	No.	1	7874091
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Total Cost of Estimate

26239735

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	23378547	18365644
Civil works	10036387	7874091
Total Cost of the Estimate	33414933	26239735

Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/steel section for 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00



2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
				Total:	194970.00

Sheet
No.2

Cost data for Earthing Work at 22/11 KV for 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	240980.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	51.80	16317.00
2	Structure for 22 KV CT	Kg.	360	51.80	18648.00
3	Structure for 22 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 22/11 KV ,1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
8	11 kv Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 232 mm2	Rmt.	150	127.40	19110.00
12	AAAC 100 mm2	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	19	559.00	10621.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	333078.20

Sheet
No. 5

Cost data for Clamps & Connectors at 22/11 kv 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	30	718.00	21540.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.00	18360.00



3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 22 KV C.T.	Nos.	6	1425.00	8550.00
5	Clamps for 22 KV P.T.	Nos.	3	1425.00	4275.00
6	Clamp for 22 KV VCB	Nos.	6	2040.00	12240.00
		Total:			188223.00

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 22/11 KV 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 232 mm ²	Rmt.	150	127.40	19110.00
11	AAAC 100 mm ²	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	12	559.00	6708.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
14	Miscellaneous material	LS	1	475.00	475.00
		Total:			281333.20

Sheet
No.7

Cost data for Yard Lighting of 22/11 KV 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt.	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cmt.	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
		Total:			215879.00

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 22/11 KV 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	204.00	2040.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	150.00	7500.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20



14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	195591.40

Sheet
No.9

Cost data for Control cable 22/11 KV 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
5	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640
2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D)	408296
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	615735.9
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	25090.97
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091
14	Borewell including pumpset and allied accessories. (As per table I)	101071
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.804
16	Construction of retaining wall. (As per table K)	731271.97
17	Rain Water Harvesting (As per Table L)	56519.24
18	Culvert (As per Table M)	138225
Total=		7874091.364

Item Code No. 0401A

Cost data for 22/11 KV, 1x5 MVA Substation (Outdoor) with RSJ pole structure

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 KV SIDE				
1	22 KV Lightning Arrestors (Station type)	Set	2	11884.00	23768.00
2	22 KV Isolators with EB (800 A)	Set	1	41547.00	41547.00
3	22 KV Isolators without EB (800 Amp.)	Set	3	35680.00	107040.00
4	22 KV Post Insulator	Nos	3	835.00	2505.00
5	RSJ 125x70, 8 m long	Nos	8	4683.00	37464.00
6	MS Channel 100x50x6 mm	Kg.	1650	51.80	85470.00
7	M.S. Angel(75 X 40 mm)	Kg.	100	51.80	5180.00
8	M.S. Flats(50 X 10mm)	Kg.	80	48.50	3880.00
9	Disc Insulator 11 KV 70 KN	Nos	18	344.00	6192.00
10	AAAC 232 mm2	MTR	200	127.40	25480.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	6	603.00	3618.00
12	Earthing complete as per Sheet no.1	Set	1	240980.00	240980.00
13	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	1	3305209.00	3305209.00
14	22 KV P.T.	Nos	3	17855.00	53565.00



15	22 KV C.T. Three core.	Nos	3	24999.00	74997.00
16	22 KV VCB complete 1600 Amp (O.D.)	Set	1	179600.00	179600.00
17	C&R panel for 22 KV Transformer with 1 A relay	No	1	75834.00	75834.00
18	22 KV Pin Insulators with G.I. Pins	Nos	6	336.00	2016.00
19	Structure for 22 KV CT & PT as per Sheet no.2	No	1	48071.00	48071.00
20	G.I.Nut Bolts	KG	150	82.90	12435.00
21	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
B	11 KV SIDE				
22	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	1	852243.00	852243.00
23	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
24	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	256151.20	256151.20
25	11 kv Pin Insulators with G.I. Pins	No.	12	135.00	1620.00
26	Clamps and Connectors as per Sheet no.4	No.	1	183453.00	183453.00
27	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	213971.20	213971.20
28	S/S Yard lighting as per Sheet no.6	No.	1	215879.00	215879.00
29	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
30	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	195591.40	195591.40
31	Control cables for S/S as per Sheet no.8	No.	1	85383.45	85383.45
32	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D Cost of material 6440936.25

1	Transportation on material	4.00%	257637
2	T&P on material cost	1.00%	64409
3	Contingencies on material	2.50%	161023
5	Erection cost on material	5.00%	322047
6	Contractor supervision charges on material	5.00%	322047
7	Insurance , Labour & Finance Cost	3.00%	193228
	Service Cost		1320392
	Sub-Total		7761328
8	Turnkey Charges	5.00%	388066

Total 8149395

9 Civil works No. 1 7233264

Total Cost of Estimate 15382659

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	10373772	8149395
Civil works	9219583	7233264
Total Cost of the Estimate	19593355	15382659

Sheet
No.1

Cost data for Earthing Work at 1x5 MVA at 22/11 KV sub stn. (outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	240980.00

Sheet
No.2

Cost data of Structure for 22 KV CT & PT at 1x5 MVA 22/11 KV Sub Stn.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	51.80	16317.00



2	Structure for 22 KV CT	Kg.	360	51.80	18648.00
3	Structure for 22 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 100 mm2	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	256151.20

Sheet
No. 4

Cost data for Clamps & Connectors at 1x5 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.00	18360.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 22 KV C.T.	Nos.	6	1425.00	8550.00
5	Clamps for 22 KV P.T.	Nos.	3	1425.00	4275.00
6	Clamp for 22 KV VCB	Nos.	6	2040.00	12240.00
				Total:	183453.00

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 1x5MVA, 22/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 100 mm2	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00



Total:	213971.20
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Sheet
No.6

Cost data for Yard Lighting of 1 x5 MVA , 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cmt	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
					215879.00

Sheet
No.7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x5 MVA 22/11 KV sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 KV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	204.00	2040.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	150.00	7500.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
Total:					195591.40

Sheet
No.8

Cost data for Control cable 1 X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
5	Miscellaneous material	L.S	1	475.00	475.00
TOTAL					85383.45

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640
2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D)	408296



7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28	
8	Metal Spreading (As per table F)	141360	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720	
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0	
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0	
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0	
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091	
14	Borewell including pumpset and allied accessories. (As per table I)	101071	
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.804	
16	Construction of retaining wall. (As per table K)	731271.97	
17	Rain Water Harvesting (As per Table L)	56519.24	
18	Culvert (As per Table M)	138225	
	Total=	7233264.494	

Item Code No. 0402A					
Cost data for 22/11 KV, 1x10 MVA Substation (Outdoor) with RSJ pole structure					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 KV SIDE				
1	22 KV Lightning Arrestors (Station type)	Set	2	11884.00	23768.00
2	22 KV Isolators with EB (800 A)	Set	1	41547.00	41547.00
3	22 KV Isolators without EB (800 Amp.)	Set	3	35680.00	107040.00
4	22 KV Post Insulator	Nos	3	835.00	2505.00
5	RSJ 125x70, 8 m long	Nos	8	4683.00	37464.00
6	MS Channel 100x50x6 mm	Kg.	1650	51.80	85470.00
7	M.S. Angel(75 X 40 mm)	Kg.	100	51.80	5180.00
8	M.S. Flats(50 X 10mm)	Kg.	80	48.50	3880.00
9	Disc Insulator 11 KV 70 KN	Nos	18	344.00	6192.00
10	AAAC 232 mm2	MTR	200	127.40	25480.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	6	603.00	3618.00
12	Earthing complete as per Sheet no.1	Set	1	240980.00	240980.00
13	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	1	4769649.00	4769649.00
14	22 KV P.T.	Nos	3	17855.00	53565.00
15	22 KV C.T. Three core.	Nos	3	24999.00	74997.00
16	22 KV VCB complete 1600 Amp (O.D.)	Set	1	179600.00	179600.00
17	C&R panel for 22 KV Transformer with Diff. Protection	No	1	113866.00	113866.00
18	22 KV Pin Insulators with G.I. Pins	Nos	6	336.00	2016.00
19	Structure for 22 KV CT & PT as per Sheet no.2	No	1	48071.00	48071.00
20	G.I.Nut Bolts	KG	150	82.90	12435.00
21	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
B	11 KV SIDE				
22	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	852243.00	852243.00
23	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
24	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	327608.20	327608.20
25	11 kV Pin Insulators with G.I. Pins	No.	12	135.00	1620.00
26	Clamps and Connectors as per Sheet no.4	No.	1	188223.00	188223.00
27	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	266852.20	266852.20
28	S/S Yard lighting as per Sheet no.6	No.	1	189411.00	189411.00
29	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
30	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	195591.40	195591.40
31	Control cables for S/S as per Sheet no.8	No.	1	85383.45	85383.45
32	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material

8046048.25

1	Transportation on material	4.00%	321842
2	T&P on material cost	1.00%	80460
3	Contingencies on material	2.50%	201151
5	Erection cost on material	5.00%	402302



6	Contractor supervision charges on material	5.00%	402302
7	Insurance , Labour & Finance Cost	3.00%	241381
	Service Cost		1649440
	Sub-Total		9695488
8	Turnkey Charges	5.00%	484774

Total 10180263

9	Civil works	No. 1	7233264
	Total Cost of Estimate		17413527

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	12958965	10180263
Civil works	9219583	7233264
Total Cost of the Estimate	22178548	17413527

Sheet
No.1

Cost data for Earthing Work at 1x10 MVA at 22/11 KV sub stn. (outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
Total:					240980.00

Sheet
No.2

Cost data of Structure for 22 KV CT & PT at 1x10 MVA 22/11 KV Sub Stn.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	51.80	16317.00
2	Structure for 22 KV CT	Kg.	360	51.80	18648.00
3	Structure for 22 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x10 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 232 mm2	Rmt.	150	127.40	19110.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.00	12924.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscellaneous material	LS	1	475.00	475.00
Total:					327608.20



Sheet
No. 4

Cost data for Clamps & Connectors at 1x10 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	30	718.00	21540.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.00	18360.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 22 KV C.T.	Nos.	6	1425.00	8550.00
5	Clamps for 22 KV P.T.	Nos.	3	1425.00	4275.00
6	Clamp for 22 KV VCB	Nos.	6	2040.00	12240.00
				Total:	188223.00

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 1x10MVA, 22/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 232 mm2	Rmt.	150	127.40	19110.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	266852.20

Sheet
No.6

Cost data for Yard Lighting of 1 x10 MVA , 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	12	6300.00	75600.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	12	4815.00	57780.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	7	3027.00	21189.00
6	Red Bricks	No.	1000	5.50	5500.00
7	Sand	Cmt	6	222.00	1332.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	189411.00

Sheet
No.7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x10 MVA 22/11 KV sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00



8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 KV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable 70 sq.mm.	Rmt.	10	204.00	2040.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	150.00	7500.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
		Total:			195591.40

Sheet
No.8

Cost data for Control cable 1 X10 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
5	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640
2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsun)	100000
6	WBM Road (As per table D)	408296
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091
14	Borewell including pumpset and allied accessories. (As per table I)	101071
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.804
16	Construction of retaining wall. (As per table K)	731271.97
17	Rain Water Harvesting (As per Table L)	56519.24
18	Culvert (As per Table M)	138225
	Total=	7233264.494

Item Code No.0403A

Cost data for 22/11 KV, 2x5 MVA Substation (Outdoor) with RSJ pole structure

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 KV SIDE				
1	22 KV Lightning Arrestors (Station type)	Set	4	11884.00	47536.00
2	22 KV Isolators with EB (800 A)	Set	2	41547.00	83094.00
3	22 KV Isolators without EB (800 Amp.)	Set	5	35680.00	178400.00
4	22 KV Post Insulator	Nos	6	835.00	5010.00
5	RSJ 125x70, 8 m long	Nos	16	4683.00	74928.00
6	MS Channel 100x50x6 mm	Kg.	3300	51.80	170940.00
7	M.S. Angel(75 X 40 mm)	Kg.	200	51.80	10360.00



8	M.S. Flats(50 X 10mm)	Kg.	160	48.50	7760.00
9	Disc Insulator 11 KV 70 KN	Nos	72	344.00	24768.00
10	AAAC 232 mm2	MTR	200	127.40	25480.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	603.00	7236.00
12	Earthing complete as per Sheet no.1	Set	2	240980.00	481960.00
13	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	2	3305209.00	6610418.00
14	22 KV P.T.	Nos	3	17855.00	53565.00
15	22 KV C.T. Three core.	Nos	6	24999.00	149994.00
16	22 KV VCB complete 1600 Amp (O.D.)	Set	2	179600.00	359200.00
17	C&R panel for 22 KV Transformer with 1 A relay	No	2	75834.00	151668.00
18	22 kv Pin Insulators with G.I. Pins	Nos	24	336.00	8064.00
19	Structure for 22 KV CT & PT as per Sheet no.2	No	2	48071.00	96142.00
20	G.I.Nut Bolts	KG	150	82.90	12435.00
21	Fire Extinguisher with stand	Set	L.S	4200.00	4000.00
22	Marshalling Box	Nos.	4	4284.00	17136.00
B	11 KV SIDE				
23	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	2	852243.00	1704486.00
24	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
25	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	2	274659.20	549318.40
26	11 kV Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
27	Clamps and Connectors as per Sheet no.4	No.	1	251421.00	251421.00
28	Structure for 11 KV Main Bus as per Sheet no.5	No.	2	213971.20	427942.40
29	S/S Yard lighting as per Sheet no.6	No.	1	215879.00	215879.00
30	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
31	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	195591.40	195591.40
32	Control cables for S/S as per Sheet no.8	No.	2	171605.90	343211.80
33	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material **12370045.00**

1	Transportation on material	4.00%	494802
2	T&P on material cost	1.00%	123700
3	Contigencies on material	2.50%	309251
5	Erection cost on material	5.00%	618502
6	Contractor supervision charges on material	5.00%	618502
7	Insurance , Labour & Finance Cost	3.00%	371101

Service Cost **2535859**

Sub-Total **14905904**

8	Turnkey Charges	5.00%	745295
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Total **15651199**

9	Civil works	No.	1	7849000
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Total Cost of Estimate **23500200**

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	19923194	15651199
Civil works	10004405	7849000
Total Cost of the Estimate	29927600	23500200

Sheet
No.1

Cost data for Earthing Work at 2x5 MVA at 22/11 KV sub stn. (outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	240980.00



Sheet
No.2

Cost data of Structure for 22 KV CT & PT at 2x5 MVA 22/11 KV Sub Stn.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	51.80	16317.00
2	Structure for 22 KV CT	Kg.	360	51.80	18648.00
3	Structure for 22 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 2x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	9254.00	74032.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 100 mm2	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	274659.20

Sheet
No. 4

Cost data for Clamps & Connectors at 2x5 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	42	1020.00	42840.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 22 KV C.T.	Nos.	12	1425.00	17100.00
5	Clamps for 22 KV P.T.	Nos.	3	1425.00	4275.00
6	Clamp for 22 KV VCB	Nos.	12	2040.00	24480.00
				Total:	251421.00

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 2x5MVA, 22/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00



10	AAAC 100 mm ²	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 100 sq mm conductor	Nos.	12	733.00	8796.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	213971.20

Sheet
No.6

Cost data for Yard Lighting of 2x5 MVA , 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cmt	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
					215879.00

Sheet
No.7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x5 MVA 22/11 KV sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	204.00	2040.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	150.00	7500.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	195591.40

Sheet
No.8

Cost data for Control cable 2X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
5	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640



2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D)	408296
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	615735.9
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091
14	Borewell including pumpset and allied accessories. (As per table I)	101071
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.804
16	Construction of retaining wall. (As per table K)	731271.97
17	Rain Water Harvesting (As per Table L)	56519.24
18	Culvert (As per Table M)	138225
	Total=	7849000.394

Item Code No. 0404A					
Cost data for 22/11 KV, 2x10 MVA Substation (Outdoor) with RSJ pole structure					
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 KV SIDE				
1	22 KV Lightning Arrestors (Station type)	Set	4	11884.00	47536.00
2	22 KV Isolators with EB (800 A)	Set	2	41547.00	83094.00
3	22 KV Isolators without EB (800 Amp.)	Set	7	35680.00	249760.00
4	22 KV Post Insulator	Nos	6	835.00	5010.00
5	RSJ 125x70, 8 m long	Nos	8	4683.00	37464.00
6	MS Channel 100x50x6 mm	Kg.	1650	51.80	85470.00
7	M.S. Angel(75 X 40 mm)	Kg.	100	51.80	5180.00
8	M.S. Flats(50 X 10mm)	Kg.	80	48.50	3880.00
9	Disc Insulator 11 KV 70 KN	Nos	36	344.00	12384.00
10	AAAC 232 mm2	MTR	200	127.40	25480.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	603.00	7236.00
12	Earthing complete as per Sheet no.1	Set	2	240980.00	481960.00
13	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	2	4769649.00	9539298.00
14	22 KV P.T.	Nos	3	17855.00	53565.00
15	22 KV C.T. Three core.	Nos	6	24999.00	149994.00
16	22 KV VCB complete 1600 Amp (O.D.)	Set	2	179600.00	359200.00
17	C&R panel for 22 KV Transformer with Diff. Protection	No	2	113866.00	227732.00
18	22 KV Pin Insulators with G.I. Pins	Nos	12	336.00	4032.00
19	Structure for 22 KV CT & PT as per Sheet no.2	No	2	48071.00	96142.00
20	G.I.Nut Bolts	KG	150	82.90	12435.00
21	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
B	11 KV SIDE				
22	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isltators, C.T. & P.T. etc.	Set	2	852243.00	1704486.00
23	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	2	346116.20	692232.40
24	11 kv Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
25	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
26	Clamps and Connectors as per Sheet no.4	No.	1	256191.00	256191.00
27	Structure for 11 KV Main Bus as per Sheet no.5	No.	2	266852.20	533704.40
28	S/S Yard lighting as per Sheet no.6	No.	1	215879.00	215879.00
29	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
30	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	199541.40	199541.40
31	Control cables for S/S as per Sheet no.8	No.	1	171605.90	171605.90
32	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
	Cost of material				15366793.10
1	Transportation on material		4.00%		614672



2	T&P on material cost	1.00%	153668
3	Contingencies on material	2.50%	384170
5	Erection cost on material	5.00%	768340
6	Contractor supervision charges on material	5.00%	768340
7	Insurance , Labour & Finance Cost	3.00%	461004
Service Cost			3150193
Sub-Total			18516986
8	Turnkey Charges	5.00%	925849
Total			19442835
9	Civil works	No. 1	7874091
Total Cost of Estimate			27316926

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	24749757	19442835
Civil works	10036387	7874091
Total Cost of the Estimate	34786144	27316926

Sheet
No.1

Cost data for Earthing Work at 2x 10 MVA at 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	240980.00

Sheet
No.2

Cost data of Structure for 22 KV CT & PT at 2x 10 MVA, 22/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	51.80	16317.00
2	Structure for 22 KV CT	Kg.	360	51.80	18648.00
3	Structure for 22 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 2x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	9254.00	74032.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for AAC232 sq.mm.	Nos.	36	603.00	21708.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 232 mm2	Rmt.	150	127.40	19110.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				



a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.00	12924.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	346116.20

Sheet
No. 4

Cost data for Clamps & Connectors at 2x10 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	30	718.00	21540.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	42	1020.00	42840.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 22 KV C.T.	Nos.	12	1425.00	17100.00
5	Clamps for 22 KV P.T.	Nos.	3	1425.00	4275.00
6	Clamp for 22 KV VCB	Nos.	12	2040.00	24480.00
				Total:	256191.00

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 2X10MVA, 22/11 KV Sub-station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 232 mm2	Rmt.	150	127.40	19110.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	266852.20

Sheet
No.6

Cost data for Yard Lighting of 2X10 MVA, 22/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cum	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x10 MVA 22/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00



6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 KV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	199541.40

Sheet
No.8

Cost data Control cable 2 X10 MVA 22/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
5	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640
2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsun)	100000
6	WBM Road (As per table D)	408296
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	615735.9
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	25090.97
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091
14	Borewell including pumpset and allied accessories. (As per table I)	101071
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.804
16	Construction of retaining wall. (As per table K)	731271.97
17	Rain Water Harvesting (As per Table L)	56519.24
18	Culvert (As per Table M)	138225
	Total=	7874091.364

Item Code No. 0405A

Cost data for 22/11 KV,1x5 MVA & 1x10 MVA Outdoor Substation with RSJ pole structure

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 KV SIDE				
1	22 KV Lightning Arrestors (Station type)	Set	4	11884.00	47536.00
2	22 KV Isolators with EB (800 A)	Set	2	41547.00	83094.00
3	22 KV Isolators without EB (800 Amp.)	Set	5	35680.00	178400.00
4	22 KV Post Insulator	Nos	6	835.00	5010.00
5	RSJ 125x70, 8 m long	Nos	16	4683.00	74928.00
6	MS Channel 100x50x6 mm	Kg.	3300	51.80	170940.00



7	M.S. Angel(75 X 40 mm)	Kg.	200	51.80	10360.00
8	M.S. Flats(50 X 10mm)	Kg.	160	48.50	7760.00
9	Disc Insulator 11 KV 70 KN	Nos	72	344.00	24768.00
10	AAAC 232 mm2	MTR	200	127.40	25480.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	603.00	7236.00
12	Earthing complete as per Sheet no.1	Set	2	240980.00	481960.00
13	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	1	3305209.00	3305209.00
14	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	1	4769649.00	4769649.00
15	22 KV P.T.	Nos	3	17855.00	53565.00
16	22 KV C.T. Three core.	Nos	6	24999.00	149994.00
17	22 KV VCB complete 1600 Amp (O.D.)	Set	2	179600.00	359200.00
18	C&R panel for 22 KV Transformer with Diff. Protection	No	1	113866.00	113866.00
19	C&R panel for 22 KV Transformer with 1 A relay	No	1	75834.00	75834.00
20	22 kv Pin Insulators with G.I. Pins	Nos	24	336.00	8064.00
21	Structure for 22 KV CT & PT as per Sheet no.2	No	2	48071.00	96142.00
22	G.I.Nut Bolts	KG	150	82.90	12435.00
23	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
24	Marshalling Box	Nos.	4	4284.00	17136.00
B	11 KV SIDE				
25	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	2	852243.00	1704486.00
26	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
27	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	2	332571.02	665142.04
28	11 kv Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
29	Clamps and Connectors as per Sheet no.4	No.	1	188223.00	188223.00
30	Structure for 11 KV Main Bus as per Sheet no.5	No.	2	284739.02	569478.04
31	S/S Yard lighting as per Sheet no.6	No.	1	215879.00	215879.00
32	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
33	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	195591.40	195591.40
34	Control cables for S/S as per Sheet no.8	No.	2	171605.90	343211.80
35	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material

14066878.28

1	Transportation on material	4.00%	562675
2	T&P on material cost	1.00%	140669
3	Contingencies on material	2.50%	351672
5	Erection cost on material	5.00%	703344
6	Contractor supervision charges on material	5.00%	703344
7	Insurance , Labour & Finance Cost	3.00%	422006

Service Cost

2883710

Sub-Total

16950588

8	Turnkey Charges	5.00%	847529
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Total

17798118

9	Civil works	No.	1	7874091
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Total Cost of Estimate

25672209

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	22656114	17798118
Civil works	10036387	7874091
Total Cost of the Estimate	32692501	25672209

Sheet
No.1

Cost data for Earthing Work at 22/11 KV for 1x5 MVA & 1x10 MVA Outdoor Sub strn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00



6	Sundries	L.S.	1	810.00	810.00
				Total:	240980.00

Sheet
No.2

Cost data of Structure for 22 KV CT & PT at 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	51.80	16317.00
2	Structure for 22 KV CT	Kg.	360	51.80	18648.00
3	Structure for 22 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 22/11 KV ,1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
8	11 kv Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 232 mm2	Rmt.	150	127.40	19110.00
12	AAAC 100 mm2	Rmt.	151	51.82	7824.82
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	G.I.Nut Bolts	Kg.	50	82.90	4145.00
15	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
16	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
17	Miscellaneous material	LS	1	475.00	475.00
				Total:	332571.02

Sheet
No. 4

Cost data for Clamps & Connectors at 22/11 kv 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	30	718.00	21540.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.00	18360.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 22 KV C.T.	Nos.	6	1425.00	8550.00
5	Clamps for 22 KV P.T.	Nos.	3	1425.00	4275.00
6	Clamp for 22 KV VCB	Nos.	6	2040.00	12240.00
				Total:	188223.00

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 22/11 KV 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00



6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	603.00	21708.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 232 mm2	Rmt.	150	127.40	19110.00
11	AAAC 100 mm2	Rmt.	151	51.82	7824.82
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
b)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
17	Miscellaneous material	LS	1	475.00	475.00
				Total:	284739.02

Sheet
No.6

Cost data for Yard Lighting of 22/11 KV 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cmt	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
					215879.00

Sheet
No. 7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 22/11 KV 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	204.00	2040.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	150.00	7500.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	195591.40

Sheet
No - 8

Cost data for Control cable 22/11 KV 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
5	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90



C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640
2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D)	408296
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	700720
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	615735.9
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	25090.97
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091
14	Borewell including pumpset and allied accessories. (As per table I)	101071
15	Const.of cable trench with covers in S/Yard. (As per table J)	297324.804
16	Construction of retaining wall. (As per table K)	731271.97
17	Rain Water Harvesting (As per Table L)	56519.24
18	Culvert (As per Table M)	138225
	Total=	7874091.364

Item Code No. 0402B					
Cost data for 22/11 KV, 1 X 10 MVA Indoor S/s					
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 kV Switchgear part				
1	Power Transformer 22/11 KV, 10 MVA (DY-11)	No.	1	4769649.00	4769649.00
2	C&R panel for 22 KV Transformer with Diff. Protection	No.	1	113866.00	113866.00
3	22 kv 1000 MVA 1600 Amp.IN Door Type VCB	No.	1	985167.00	985167.00
4	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	100	1464.00	146400.00
5	22 kv Heat shrik Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	4	12874.00	51496.00
6	22 kv SF6 Isolator	No.	2	409598.00	819196.00
7	Foundation for 22 kv Isolators	Cmt.	5.2	3027.00	15740.40
8	RSJ 152x152, 13 m long	No.	2	21562.00	43124.00
9	Concreting ration 1:3:6	Cmt.	2.02	3027.00	6114.54
10	22 KV Lightning Arrestors (Screw type)	Set	1	8568.00	8568.00
11	Marshalling Box	No.	2	4284.00	8568.00
12	0.2 ACSR or equivalent AAAC Loop Connector	No.	12	820.00	9840.00
13	Clamps for 22 KV Isolator	No.	12	1020.00	12240.00
14	Transformer Clamps	No.	6	721.00	4326.00
15	AAAC 232 mm2	Mtr.	50	127.40	6370.00
16	Sundries	L.S.	1	810.00	810.00
B	11 kV Switchgear part				
17	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1703020.00	1703020.00
18	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	1000	1194.00	1194000.00
19	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	24	1662.00	39888.00
20	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
21	Control cables for S/S as per Sheet no.1	No.	1	237889.00	237889.00
22	Earthing complete as per Sheet no.2	Set	1	54433.50	54433.50
23	Sundries	L.S.	1	810.00	810.00
	Cost of material				10303515.44

1	Transportation on material	4.00%	412141
2	T&P on material cost	1.00%	103035
3	Contigencies on material	2.50%	257588
5	Erection cost on material	5.00%	515176
6	Contractor supervision charges on material	5.00%	515176
7	Insurance , Labour & Finance Cost	3.00%	309105



Service Cost		2112221
Sub-Total		12415736
8 Turnkey Charges	5.00%	620787

Total **13036523**

9 Civil Works for plinth and other foundation works	L.S.	5202820
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Total Cost of Estimate

18239343

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	16594842	13036523
Civil works	6631561	5202820
Total Cost of the Estimate	23226403	18239343

Sheet
No - 1

Cost data for Control cable 22/11 KV 1x10 MVA Indoor Sub stn.

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	Armoured Copper control cable 19C X 2.5 Sq mm	Mtr.	200	331.39	66278.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Mtr.	200	216.24	43248.00
3	Armoured Copper control cable 4C X 2.5 Sq mm	Mtr.	200	87.60	17520.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Mtr.	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	100	78.00	7800.00
6	Cable Trays 2.5 Mtr. X 6" W	No.	100	333.00	33300.00
7	G.I Angles (50X50X6mm) forcable tray	Kg.	400	70.08	28032.00
8	Sand	Cmt.	150	222.00	33300.00
9	Sundries e.g. Ferulls, Glands, Lugs etc.	L.S.	1	2900.00	2900.00
Total					237889.00

Sheet
No. 2

Cost data for Earthing Work at 22/11 KV for 1X10 MVA Indoor Sub stn.

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	Earthing HDG Flat 75 X 10 mm	kg.	150	66.78	10017.00
2	Earthing HDG Flat 50 X 6 mm	kg.	75	66.78	5008.50
3	C.I. Plates 2' X 2'	No.	4	247.00	988.00
4	C.I. Pipes 4" dia 3 Metre Long	No.	4	7230.00	28920.00
5	Salt	kg.	300	7.00	2100.00
6	Coal	kg.	300	15.00	4500.00
7	Sundries e.g. Ferulls, Glands, Lugs etc.	L.S.	1	2900.00	2900.00
Total					54433.50

Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) Indoor	150490
2	Control room (As per table B) Indoor	2930526.21
3	Store room of size 8.0m X 6.0 m (As per table C) Indoor	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D) Indoor	230185
7	Chain link fencing and Bar bed wire fencing (As per table E) Indoor	537350.16
8	Metal Spreading (As per table F) Indoor	96212
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	86289.2
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Indoor	52836
13	Borewell including pumpset and allied accessories. (As per table I) Indoor	101071
14	Const.of cable trench with covers in S/Yard. (As per table J) Indoor	173239.75



15	Construction of retaining wall. (As per table K) Indoor	549876.5	
16	Rain Water Harvesting (As per Table L) Indoor	56519.24	
17	Culvert (As per Table M) Indoor	138225	
		5202820.06	

Item Code No.0403C					
Cost data for 22/11 KV, 2x5 MVA Substation, 22 kV O/D, 11 kV I/D					
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 22 KV SIDE					
1	22 KV Lightning Arrestors (Station type)	Set	3	11884.00	35652.00
2	22 KV Isolators with EB (800 A)	Set	1	41547.00	41547.00
3	22 KV Isolators without EB (800 Amp.)	Set	4	35680.00	142720.00
4	22 KV Post Insulator	Nos	6	835.00	5010.00
5	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	2	182311.50	364623.00
6	Disc Insulator 11 KV 70 KN	Nos	72	344.00	24768.00
7	AAAC 232 mm2	MTR	200	127.40	25480.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	603.00	7236.00
9	Earthing complete as per Sheet no.2	Set	2	240980.00	481960.00
10	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	2	3305209.00	6610418.00
11	22 KV P.T.	Nos	3	17855.00	53565.00
12	22 KV C.T. Three core.	Nos	6	24999.00	149994.00
13	22 KV VCB complete 1600 Amp (O.D.)	Set	3	179600.00	538800.00
14	C&R panel for 22 KV Transformer with 1 A relay	No	2	75834.00	151668.00
15	C&R panel for 22 KV feeder breaker	No	1	49844.00	49844.00
16	22 KV Pin Insulators with G.I. Pins	Nos	24	336.00	8064.00
17	Structure for 22 KV CT & PT as per Sheet no.3	No	2	48071.00	96142.00
18	G.I.Nut Bolts	KG	150	82.90	12435.00
19	Marshalling Box	Nos.	4	4284.00	17136.00
B 11 KV SIDE					
20	11kV I D switchgear (2 I/c+1 B/c+8O/G)	Set	1	3117222.00	3117222.00
21	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	1600	1194.00	1910400.00
22	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
23	11 kv heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	20	1662.00	33240.00
24	Clamps and Connectors as per Sheet no.4	No.	1	88113.00	88113.00
25	S/S Yard lighting as per Sheet no.5	No.	1	215879.00	215879.00
26	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
27	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	No.	1	201532.40	201532.40
28	Control cables for S/S as per Sheet no.7	No.	1	171605.90	171605.90
29	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
Cost of material					14764149.30

1	Transportation on material	4.00%	590566
2	T&P on material cost	1.00%	147641
3	Contingencies on material	2.50%	369104
5	Erection cost on material	5.00%	738207
6	Contractor supervision charges on material	5.00%	738207
7	Insurance , Labour & Finance Cost	3.00%	442924
Service Cost			3026651
Sub-Total			17790800
8	Turnkey Charges	5.00%	889540
Total			18680340

9	Civil Works for plinth and other foundation works	L.S.	5314200
Total Cost of Estimate			23994540

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	23779139	18680340
Civil works	6773527	5314200
Total Cost of the Estimate	30552666	23994540



Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/steel section for 2x5 MVA Sub stn. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.783	48500.00	37975.50
Total:					182311.50

Sheet
No.2

Cost data for Earthing Work at 2x5 MVA at 22/11 KV sub stn. (outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	810.00	810.00
Total:					240980.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 2x5 MVA 22/11 KV Sub Stn.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	51.80	16317.00
2	Structure for 22 KV CT	Kg.	360	51.80	18648.00
3	Structure for 22 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No. 4

Cost data for Clamps & Connectors at 2x5 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 100 sq mm conductor	Nos.	30	733.00	21990.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.00	18360.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 22 KV C.T.	Nos.	6	1425.00	8550.00
5	Clamps for 22 KV P.T.	Nos.	3	1425.00	4275.00
6	Clamp for 22 KV VCB	Nos.	6	2040.00	12240.00
Total:					88113.00

Sheet
No.5

Cost data for Yard Lighting of 2x5 MVA , 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cmt	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
Total:					215879.00

Sheet
No. 6



Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x5 MVA 22/11 KV sub stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	70.08	20323.20
2	G.I.Channel 75x40x6mm	Kg.	15	70.08	1051.20
3	G.I Flat 75x10 mm	Kg.	20	66.78	1335.60
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	204.00	2040.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	150.00	7500.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	201532.40

Sheet
No - 7

Cost data for Control cable 2X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
5	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) Hybrid	150490
2	Control room (As per table B) Hybrid	2930526.21
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D) Hybrid	230185
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	537350.16
8	Metal Spreading (As per table F) Hybrid	96212
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	86289.2
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	86289.2
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	25090.97
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	52836
13	Borewell including pumpset and allied accessories. (As per table I) Hybrid	101071
14	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	173239.75
15	Construction of retaining wall. (As per table K) Hybrid	549876.5
16	Rain Water Harvesting (As per Table L) Indoor	56519.24
17	Culvert (As per Table M) Indoor	138225
	Total=	5314200.23

Item Code No. 0501

Cost data for 22 Kv Switching Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
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1	22 KV feeder bay as per sheet "A"	Nos.	12	756615.60	9079387.20
2	22 KV Isolators without EB (800 Amp.)	Set	3	35680.00	107040.00
3	22 KV P.T.	No.	3	17855.00	53565.00
4	100 KVA, 22/0.4 KV with Dist. Box as per Sht.No.6.	Set	1	276835.40	276835.40
5	Battery set 30 Volt, 100 AH with Battery charger	Set	1	72000.00	72000.00
6	Bus Gantry and Fabrication material , Clamps,Connectors, Control Cables, and Earthing (As per Sht. No.1,2,3,5,7 &8.	L.S.	1	407270.30	407270.30
7	AC Distribution Board 'B' type	Nos.	1	24325.00	24325.00
8	Fire Extinguisher with stand	LS	1	4200.00	4200.00
9	Switchyard lighting(As per Sht.no.4)	Nos.	1	153263.50	153263.50

Cost of material

10177886.40

1	Transportation on material	4.00%	407115
2	T&P on material cost	1.00%	101779
3	Contingencies on material	2.50%	254447
5	Erection cost on material	5.00%	508894
6	Contractor supervision charges on material	5.00%	508894
7	Insurance , Labour & Finance Cost	3.00%	305337

Service Cost

2086467

Sub-Total

12264353

8	Turnkey Charges	5.00%	613218
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Total

12877571

9	Civil works	No.	1	6974850
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Total Cost of Estimate

19852421

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	16392504	12877571
Civil works	8890206	6974850
Total Cost of the Estimate	25282710	19852421

Sheet A

22 KV FEEDER BAY

Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	22 KV Lightning Arrestors (Screw type)	Set	1	8568.00	8568.00
2	22 KV Isolators with EB (800 A)	Set	1	41547.00	41547.00
3	22 KV Isolators without EB (800 Amp.)	Set	1	35680.00	35680.00
4	22 KV VCB complete 1600 Amp (O.D.)	Set	1	179600.00	179600.00
5	CT 200-100/1-1 A , 22 KV	Nos.	3	23767.00	71301.00
6	Control C&R Panel 22 KV for feeder with accessories.	Nos.	1	75834.00	75834.00
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	330027.60	330027.60
8	Earthing as per Sheet (E)	L.S.	1	14058.00	14058.00

Cost of material

756615.60

22 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A)	STRUCTURE				
1	Structure for 22 KV L.A.	Kg.	250	51.80	12950.00
2	Structure for 22 KV CT	Kg.	315	51.80	16317.00
3	G.I. Gantry Structures	Kg.	1000	70.08	70080.00
4	G.I.Nut Bolts	Kg.	100	82.90	8290.00
5	Welding Rods	Nos.	5000	3.50	17500.00
				Sub Total	125137.00
B)	FOUNDATION(Civil works)				
1	Foundation for 22 KV Isolators	Cmt.	1.3	3027.00	3935.10
2	Foundation for 22 KV Isolators without EB	Cmt.	1.3	3027.00	3935.10
3	Foundation for 22 KV Lightning Arrestor	Cmt.	1.3	3027.00	3935.10
4	Foundation for 22 KV C.Ts	Cmt.	1.3	3027.00	3935.10



5	Foundation for 22 KV Breaker	Cmt.	1.3	3027.00	3935.10
6	Foundation for Gantry Structures	Cmt.	2.6	3027.00	7870.20
				Sub Total:	27545.70
C) BUS-BAR MATERIAL					
1	AAAC 232 mm ²	Mtrs.	25	127.40	3185.00
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1688.00	10128.00
4	clamps for Isolator	Nos.	12	845.00	10140.00
5	Clamps for CTs	Nos.	6	1180.00	7080.00
6	Disc Insulator 11 KV 70 KN	Nos.	12	344.00	4128.00
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	603.00	3618.00
				Sub Total:	138839.00
D) CONTROL CABLE					
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	331.39	16569.50
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.11	2204.40
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	74.78	3739.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands, rerules and tape etc.	L.S.	-	524.00	524.00
4	Angle for fixing trays 50x50x6mm	Kg.	20	51.80	1036.00
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	110.00	8800.00
6	Sand	Cmt.	4	222.00	888.00
				Sub Total:	37090.90
E) EARTHING WORK					
1	M.S. Flats(50 X 10mm)	Kg.	50	48.50	2425.00
2	M.S.Flat 25x6 mm	Kg.	20	48.50	970.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6300.00	6300.00
4	Coal	Kg.	100	15.00	1500.00
5	Salt	Kg.	100	7.00	700.00
6	Welding Rods	Nos.	50	3.50	175.00
7	Hiring of Welding machine	Nos.	1	238.00	238.00
8	Brick & Masonary works for earthing pit	Nos.	1	1750.00	1750.00
				Sub Total:	14058.00
F) PAINTING OF STRUCTURE					
1	Red Oxide Paint for 2 coats	Ltrs.	10	85.00	850.00
2	Aluminium Paint for 1 coat	Ltrs.	5	113.00	565.00
				Sub Total:	1415.00

Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/Steel Section for 22 KV Switching station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.783	48500.00	37975.50
				Total:	182311.50

Sheet
No.2

Cost data for Earthing Work at 22 KV switching station.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	140	48.50	6790.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	2	6300.00	12600.00
3	Coal	Kg.	200	15.00	3000.00
4	Salt	Kg.	200	7.00	1400.00
5	RCC Ring work for earthing pits	No.	2	266.00	532.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	25132.00

Sheet
No.3



Cost data of Structure for 22 KV , PT H/G fuse set at 22 KV SWS (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	51.80	16317.00
2	Structure for 22 KV H/G.	Kg.	155	51.80	8029.00
3	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	26833.00

Sheet
No.4

Cost data for Yard Lighting at 22 KV switching station (Outdoor).

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	10	6300.00	63000.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	10	4815.00	48150.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	175	78.00	13650.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	75	77.00	5775.00
5	Concreting ration 1:3:6	Cmt	5.5	3027.00	16648.50
6	Red Bricks	No.	850	5.50	4675.00
7	Sand	Cum	2.5	222.00	555.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	153263.50

Sheet
No. 5

Cost data for Clamps & Connectors bus connection at 22 KV SWS. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
b)	DOG TO DOG or equivalent AAC			559.00	0.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.00	18360.00
3	Clamps for 22 KV P.T.	Nos.	3	1425.00	4275.00
				Total:	123195.00

Sheet
No. 6

Cost data for 100 KVA, 22/0.43 KV Station T/F for 22KV Switching stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Dist.transformer 100kva,22/0.4kv	No.	1	202380.00	202380.00
2	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
3	22KV A.B.Switch, 400 A	Nos.	1	14447.00	14447.00
4	L.A.s 22KV (Gapless type) with disconnecter	Set	1	2280.00	2280.00
5	22 kv Pin Insulators with G.I. Pins	No.s	3	336.00	1008.00
6	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
7	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
8	Earthing Sets H.T	Nos.	3	342.00	1026.00
9	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
10	Coal	Kg.	200	15.00	3000.00
11	Salt	Kg.	200	7.00	1400.00
12	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
13	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
14	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	276835.40

Sheet
No - 7

Cost data for Control cable for 22KV Switching Stn.(Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	5	333.00	1665.00
3	G.I Angles (50X50X6mm) forcable tray	Kg.	10	70.08	700.80
4	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	8351.80



Sheet
No - 8

Materials for 22 KV bus section at Switching Stn.(Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	AAAC 232 mm2	Rmt	200	127.40	25480.00
2	Disc Insulator 11 KV 70 KN	Nos.	24	344.00	8256.00
3	Strain Hardware for AAAC232 sq.mm.	Nos.	12	603.00	7236.00
4	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	41447.00

Sheet
No - 9

Cost data for Civil works for 22 KV Switching station (Outdoor)

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640
2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsun)	100000
6	WBM Road (As per table D)	408296
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360
9	Foundations for structures and equipments for switching station	442305.7215
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091
11	Borewell including pumpset and allied accessories. (As per table I)	101071
12	Const.of cable trench with covers in S/Yard. (As per table J)	297324.804
13	Construction of retaining wall. (As per table K)	731271.97
14	Rain Water Harvesting (As per Table L) Indoor	56519.24
15	Culvert (As per Table M) Indoor	138225
Total=		6974850.215

Item Code No. 0502

Cost data for 11 Kv Switching Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	11 KV feeder bay as per sheet "A"	Nos.	12	499920.10	5999041.20
2	11 KV Isolators without EB (800 Amp.)	Set	3	26630.00	79890.00
3	11 KV PT	Set	1	8965.00	8965.00
4	100 KVA, 11/0.4 KV with Dist. Box as per Sht.No.6.	Set	1	180403.40	180403.40
5	Battery set 30 Volt, 100 AH with Battery charger	Set	1	72000.00	72000.00
6	Bus Gantry and Fabrication material , Clamps,Connectors, Control Cables, and Earthing (As per Sht. No.1,2,3,5,7 &8.	L.S.	1	312659.30	312659.30
7	AC Distribution Board 'B' type	Nos.	1	24325.00	24325.00
8	Fire Extinguisher with stand	LS	1	4200.00	4200.00
9	Switchyard lighting(As per Sht.no.4)	Nos.	1	153263.50	153263.50

Cost of material

6834747.40

1	Transportation on material	4.00%	273390
2	T&P on material cost	1.00%	68347
3	Contingencies on material	2.50%	170869
5	Erection cost on material	5.00%	341737
6	Contractor supervision charges on material	5.00%	341737
7	Insurance , Labour & Finance Cost	3.00%	205042
Service Cost			1401123
Sub-Total			8235871
8	Turnkey Charges	5.00%	411794

Total

8647664

9	Civil work as per sheet No.9		6974850
Total Cost of Estimate			15622514

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Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	11008044	8647664
Civil works	8890206	6974850
Total Cost of the Estimate	19898250	15622514

Sheet
No. A

11 KV FEEDER BAY

Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
2	11 KV Isolators with EB (800 A)	Set	1	30025.00	30025.00
3	11 KV Isolators without EB (800 Amp.)	Set	1	26630.00	26630.00
4	11 KV VCB 400 A Outdoor	Set	1	103600.00	103600.00
5	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	10611.00	31833.00
6	C&R Panel for 11 kV Outgoing Feeder OD	Nos.	1	49844.00	49844.00
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	242662.10	242662.10
8	Earthing as per Sheet (E)	L.S.	1	14058.00	14058.00

Cost of material

499920.10

11 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A)	STRUCTURE				
1	Structure for 11 KV L.A.	Kg.	250	51.80	12950.00
2	Structure for 11 KV CT	Kg.	315	51.80	16317.00
3	G.I. Gantry Structures	Kg.	1000	70.08	70080.00
4	G.I.Nut Bolts	Kg.	100	82.90	8290.00
5	Welding Rods	Nos.	5000	3.50	17500.00
				Sub Total	125137.00
B)	FOUNDATION(Civil works)				
1	Foundation for 11 kV Isolators	Cmt.	1.3	3027.00	3935.10
2	Foundation for 11 kV Isolators without EB	Cmt.	1.3	3027.00	3935.10
3	Foundation for 11 kV Lightning Arrestor	Cmt.	1.3	3027.00	3935.10
4	Foundation for 11 kV C.Ts	Cmt.	1.3	3027.00	3935.10
5	Foundation for 11 kV Breaker	Cmt.	1.3	3027.00	3935.10
6	Foundation for Gantry Structures	Cmt.	2.6	3027.00	7870.20
				Sub Total:	27545.70
C)	BUS-BAR MATERIAL				
1	AAAC 100 mm ²	Mtrs.	25	51.82	1295.50
2	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
3	Breaker Clamps	Nos.	6	1688.00	10128.00
4	clamps for Isolator	Nos.	12	845.00	10140.00
5	Clamps for CTs	Nos.	6	1180.00	7080.00
6	Disc Insulator 11 KV 70 KN	Nos.	12	344.00	4128.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	6	322.00	1932.00
				Sub Total:	51473.50
D)	CONTROL CABLE				
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	331.39	16569.50
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.11	2204.40
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	74.78	3739.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands, rerules and tape etc.	L.S.	-	524.00	524.00
4	Angle for fixing trays 50x50x6mm	Kg.	20	51.80	1036.00
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	110.00	8800.00
6	Sand	Cmt.	4	222.00	888.00
				Sub Total:	37090.90
E)	EARTHING WORK				
1	M.S. Flats(50 X 10mm)	Kg.	50	48.50	2425.00
2	M.S.Flat 25x6 mm	Kg.	20	48.50	970.00



3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6300.00	6300.00
4	Coal	Kg.	100	15.00	1500.00
5	Salt	Kg.	100	7.00	700.00
6	Welding Rods	Nos.	50	3.50	175.00
7	Hiring of Welding machine	Nos.	1	238.00	238.00
8	Brick & Masonary works for earthing pit	Nos.	1	1750.00	1750.00
				Sub Total:	14058.00
F)	PAINTING OF STRUCTURE				
1	Red Oxide Paint for 2 coats	Ltrs.	10	85.00	850.00
2	Aluminium Paint for 1 coat	Ltrs.	5	113.00	565.00
				Sub Total:	1415.00

Sheet
No.1

Cost data for 11 KV Gantry M.S.structure/Steel Section for 11 KV Switching station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.783	48500.00	37975.50
				Total:	182311.50

Sheet
No.2

Cost data for Earthing Work at 11 KV switching station.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	140	48.50	6790.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	2	6300.00	12600.00
3	Coal	Kg.	200	15.00	3000.00
4	Salt	Kg.	200	7.00	1400.00
5	RCC Ring work for earthing pits	No.	2	266.00	532.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	25132.00

Sheet
No.3

Cost data of Structure for 11 KV CT, PT H/G fuse set at 11 KV SW/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 11 KV PT	Kg.	315	51.80	16317.00
2	Structure for 11 KV H/G.	Kg.	155	51.80	8029.00
3	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	26833.00

Sheet
No.4

Cost data for Yard Lighting at 11 KV switching station (Outdoor).

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp & 250w SV Lamp	No.	10	6300.00	63000.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	10	4815.00	48150.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	175	78.00	13650.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	75	77.00	5775.00
5	Concreting ration 1:3:6	Cmt	5.5	3027.00	16648.50
6	Red Bricks	No.	850	5.50	4675.00
7	Sand	Cum	2.5	222.00	555.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	153263.50

Sheet
No. 5

Cost data for Clamps & Connectors bus connection at 11 KV SW/S. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00



2	clamps for Isolator	Nos.	18	845.00	15210.00
3	Clamp for PT	Nos.	3	1450.00	4350.00
			Total:		36330.00

Sheet
No. 6

Cost data for 100 KVA, 11/0.43 KV Station T/F for 11 KV Switching stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
2	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
3	11KV A.B. Switch, 400 A	Nos.	1	9240.00	9240.00
4	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
5	11 kv Pin Insulators with G.I. Pins	No.s	3	135.00	405.00
6	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
7	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
8	Earthing Sets H.T	Nos.	3	342.00	1026.00
9	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
10	Coal	Kg.	200	15.00	3000.00
11	Salt	Kg.	200	7.00	1400.00
12	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
13	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
14	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
			Total:		180403.40

Sheet
No - 7

Cost data for Control cable for 11 KV Switching Stn.(Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	5	333.00	1665.00
3	G.I Angles (50X50X6mm) forcable tray	Kg.	10	70.08	700.80
4	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	8351.80

Sheet
No - 8

Materials for 11 KV bus section at Switching Stn.(Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	AAAC 232 mm2	Rmt	200	127.40	25480.00
2	Disc Insulator 11 KV 70 KN	Nos.	12	344.00	4128.00
3	Strain Hardware for AAAC232 sq.mm.	Nos.	6	603.00	3618.00
4	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	33701.00

Sheet
No - 9

Cost data for Civil works for 11 KV Switching station (Outdoor)

Sr.No.	Particular	Amount
1	Land Development (As per table A)	242640
2	Control room (As per table B) outdoor	2087239
3	Store room of size 8.0m X 6.0 m (As per table C)	674742.2
4	Sanitary Water supply	0
5	Electrification (Lumsum)	100000
6	WBM Road (As per table D)	408296
7	Chain link fencing and Bar bed wire fencing (As per table E)	1495764.28
8	Metal Spreading (As per table F)	141360
9	Foundations for structures and equipments for switching station	442305.7215
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	58091
11	Borewell including pumpset and allied accessories. (As per table I)	101071
12	Const.of cable trench with covers in S/Yard. (As per table J)	297324.804
13	Construction of retaining wall. (As per table K)	731271.97
14	Rain Water Harvesting (As per Table L) Indoor	56519.24
15	Culvert (As per Table M) Indoor	138225



Total=	6974850.215
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Item Code No. 0601					
Cost data for 33 KV FEEDER BAY (Outdoor)					
Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	33 KV Lightning Arrestors (Station type)	Set	1	13571.00	13571.00
2	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
3	33 KV Isolators without EB (800 Amp.)	Set	1	50510.00	50510.00
4	33 KV VCB complete 1600 Amp (O.D.)	Set	1	204195.00	204195.00
5	CT 200-100/1-1 A , 33 KV	Nos.	3	23353.00	70059.00
6	C&R panel for 33 KV for feeder breaker	Nos.	1	51178.00	51178.00
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	337161.60	337161.60
8	Marshalling Box	No	1	4284.00	4284.00
9	Earthing as per Sheet (E)	L.S.	1	14058.00	14058.00

Cost of material		800206.60	
1	Transportation on material	4.00%	32008
2	T&P on material cost	1.00%	8002
3	Contingencies on material	2.50%	20005
5	Erection cost on material	5.00%	40010
6	Contractor supervision charges on material	5.00%	40010
7	Insurance , Labour & Finance Cost	3.00%	24006
	Service Cost		164042
	Sub-Total		964249
8	Turnkey Charges	5.00%	48212
Total			1012461

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	1288813	1012461
Total Cost of the Estimate	1288813	1012461

33 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A)	STRUCTURE				
1	Structure for 33 KV L.A.	Kg.	250	51.80	12950.00
2	Structure for 33 KV CT	Kg.	315	51.80	16317.00
3	G.I. Gantry Structures	Kg.	1000	70.08	70080.00
4	G.I.Nut Bolts	Kg.	100	82.90	8290.00
5	Welding Rods	Nos.	5000	3.50	17500.00
				Sub Total	125137.00
B)	FOUNDATION(Civil works)				
1	Foundation for 33 kV Isolators with EB	Cmt.	1.3	3027.00	3935.10
2	Foundation for 33 kV Isolators without EB	Cmt.	1.3	3027.00	3935.10
3	Foundation for 33 kV C.Ts	Cmt.	1.3	3027.00	3935.10
4	Foundation for 33 kV Lightning Arrestor	Cmt.	1.3	3027.00	3935.10
5	Foundation for 33 kV Breaker	Cmt.	1.3	3027.00	3935.10
6	Foundation for Gantry Structures	Cmt.	2.6	3027.00	7870.20
				Sub Total:	27545.70
C)	BUS-BAR MATERIAL				
1	AAAC 232 mm2	Mtrs.	25	127.40	3185.00
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1688.00	10128.00
4	clamps for Isolator	Nos.	18	845.00	15210.00
5	Clamps for CTs	Nos.	6	1180.00	7080.00
6	Disc Insulator 11 KV 70 KN	Nos.	18	344.00	6192.00
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	603.00	3618.00



				Sub Total:	145973.00
D)	CONTROL CABLE				
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	331.39	16569.50
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.11	2204.40
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	74.78	3739.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands, rerules and tape etc.	L.S.	L.S.	524.00	524.00
4	Angle for fixing trays 50x50x6mm	Kg.	20	51.80	1036.00
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	110.00	8800.00
6	Sand	Cmt.	4	222.00	888.00
				Sub Total:	37090.90
E)	EARTHING WORK				
1	M.S. Flats(50 X 10mm)	Kg.	50	48.50	2425.00
2	M.S.Flat 25x6 mm	Kg.	20	48.50	970.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6300.00	6300.00
4	Coal	Kg.	100	15.00	1500.00
5	Salt	Kg.	100	7.00	700.00
6	Welding Rods	Nos.	50	3.50	175.00
7	Hiring of Welding machine	Nos.	1	238.00	238.00
8	Brick & Masonary works for earthing pit	Nos.	1	1750.00	1750.00
				Sub Total:	14058.00
F)	PAINTING OF STRUCTURE				
1	Red Oxide Paint for 2 coats	Ltrs.	10	85.00	850.00
2	Aluminium Paint for 1 coat	Ltrs.	5	113.00	565.00
				Sub Total:	1415.00

Item Code No. 0602					
22 KV FEEDER BAY					
Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	22 KV Lightning Arrestors (Screw type)	Set	1	8568.00	8568.00
2	22 KV Isolators with EB (800 A)	Set	1	41547.00	41547.00
3	22 KV Isolators without EB (800 Amp.)	Set	1	35680.00	35680.00
4	22 KV VCB complete 1600 Amp (O.D.)	Set	1	179600.00	179600.00
5	CT 200-100/1-1 A , 22 KV	Nos.	3	23767.00	71301.00
6	Control C&R Panel 22 KV for feeder with accessories.	Nos.	1	75834.00	75834.00
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	330027.60	330027.60
8	Marshalling Box	No	1	4284.00	4284.00
9	Earthing as per Sheet (E)	L.S.	1	14058.00	14058.00
Cost of material					760899.60

1	Transportation on material	4.00%	30436
2	T&P on material cost	1.00%	7609
3	Contingencies on material	2.50%	19022
5	Erection cost on material	5.00%	38045
6	Contractor supervision charges on material	5.00%	38045
7	Insurance , Labour & Finance Cost	3.00%	22827
Service Cost			155984
Sub-Total			916884
8	Turnkey Charges	5.00%	45844
Total			962728

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	1225505	962728
Total Cost of the Estimate	1225505	962728

22 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
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A)	STRUCTURE				
1	Structure for 22 KV L.A.	Kg.	250	51.80	12950.00
2	Structure for 22 KV CT	Kg.	315	51.80	16317.00
3	G.I. Gantry Structures	Kg.	1000	70.08	70080.00
4	G.I.Nut Bolts	Kg.	100	82.90	8290.00
5	Welding Rods	Nos.	5000	3.50	17500.00
				Sub Total	125137.00
B)	FOUNDATION(Civil works)				
1	Foundation for 22 KV Isolators	Cmt.	1.3	3027.00	3935.10
2	Foundation for 22 KV Isolators without EB	Cmt.	1.3	3027.00	3935.10
3	Foundation for 22 KV Lightning Arrestor	Cmt.	1.3	3027.00	3935.10
4	Foundation for 22 KV C.Ts	Cmt.	1.3	3027.00	3935.10
5	Foundation for 22 KV Breaker	Cmt.	1.3	3027.00	3935.10
6	Foundation for Gantry Structures	Cmt.	2.6	3027.00	7870.20
				Sub Total:	27545.70
C)	BUS-BAR MATERIAL				
1	AAAC 232 mm2	Mtrs.	25	127.40	3185.00
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Noa	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1688.00	10128.00
4	clamps for Isolator	Nos.	12	845.00	10140.00
5	Clamps for CTs	Nos.	6	1180.00	7080.00
6	Disc Insulator 11 KV 70 KN	Nos.	12	344.00	4128.00
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	603.00	3618.00
				Sub Total:	138839.00
D)	CONTROL CABLE				
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	331.39	16569.50
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.11	2204.40
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	74.78	3739.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands, rerules and tape etc.	L.S.	-	524.00	524.00
4	Angle for fixing trays 50x50x6mm	Kg.	20	51.80	1036.00
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	110.00	8800.00
6	Sand	Cmt.	4	222.00	888.00
				Sub Total:	37090.90
E)	EARTHING WORK				
1	M.S. Flats(50 X 10mm)	Kg.	50	48.50	2425.00
2	M.S.Flat 25x6 mm	Kg.	20	48.50	970.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6300.00	6300.00
4	Coal	Kg.	100	15.00	1500.00
5	Salt	Kg.	100	7.00	700.00
6	Welding Rods	Nos.	50	3.50	175.00
7	Hiring of Welding machine	Nos.	1	238.00	238.00
8	Brick & Masonary works for earthing pit	Nos.	1	1750.00	1750.00
				Sub Total:	14058.00
F)	PAINTING OF STRUCTURE				
1	Red Oxide Paint for 2 coats	Ltrs.	10	85.00	850.00
2	Aluminium Paint for 1 coat	Ltrs.	5	113.00	565.00
				Sub Total:	1415.00

Item Code 0603					
11 KV FEEDER BAY					
Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
2	11 KV Isolators with EB (800 A)	Set	1	30025.00	30025.00
3	11 KV Isolators without EB (800 Amp.)	Set	1	26630.00	26630.00
4	11 KV VCB 400 A Outdoor	Set	1	103600.00	103600.00
5	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	10611.00	31833.00
6	C&R Panel for 11 kV Outgoing Feeder OD	Nos.	1	49844.00	49844.00
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	330027.60	330027.60
8	Marshalling Box	No	1	4284.00	4284.00
9	Earthing as per Sheet (E)	L.S.	1	14058.00	14058.00

Cost of material

591569.60



1	Transportation on material	4.00%	23663
2	T&P on material cost	1.00%	5916
3	Contingencies on material	2.50%	14789
5	Erection cost on material	5.00%	29578
6	Contractor supervision charges on material	5.00%	29578
7	Insurance , Labour & Finance Cost	3.00%	17747
	Service Cost		121272
	Sub-Total		712841
8	Turnkey Charges	5.00%	35642
	Total		748483

Particulars	DPR Amount	Tender/ Estimate Amount(Rural)
	61.06%	26.525%
Cost with overheads on Material	952782	748483
Total Cost of the Estimate	952782	748483

11 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A)	STRUCTURE				
1	Structure for 11 KV L.A.	Kg.	250	51.80	12950.00
2	Structure for 11 KV CT	Kg.	315	51.80	16317.00
3	G.I. Gantry Structures	Kg.	1000	70.08	70080.00
4	G.I.Nut Bolts	Kg.	100	82.90	8290.00
5	Welding Rods	Nos.	5000	3.50	17500.00
				Sub Total	125137.00
B)	FOUNDATION(Civil works)				
1	Foundation for 11 KV Isolators	Cmt.	1.3	3027.00	3935.10
2	Foundation for 11 KV Isolators without EB	Cmt.	1.3	3027.00	3935.10
3	Foundation for 11 KV Lightning Arrestor	Cmt.	1.3	3027.00	3935.10
4	Foundation for 11 KV C.Ts	Cmt.	1.3	3027.00	3935.10
5	Foundation for 11 KV Breaker	Cmt.	1.3	3027.00	3935.10
6	Foundation for Gantry Structures	Cmt.	2.6	3027.00	7870.20
				Sub Total:	27545.70
C)	BUS-BAR MATERIAL				
1	AAAC 232 mm2	Mtrs.	25	127.40	3185.00
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1688.00	10128.00
4	clamps for Isolator	Nos.	12	845.00	10140.00
5	Clamps for CTs	Nos.	6	1180.00	7080.00
6	Disc Insulator 11 KV 70 KN	Nos.	12	344.00	4128.00
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	603.00	3618.00
				Sub Total:	138839.00
D)	CONTROL CABLE				
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	331.39	16569.50
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.11	2204.40
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	74.78	3739.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands, rerules and tape etc.	L.S.	-	524.00	524.00
4	Angle for fixing trays 50x50x6mm	Kg.	20	51.80	1036.00
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	110.00	8800.00
6	Sand	Cmt.	4	222.00	888.00
				Sub Total:	37090.90
E)	EARTHING WORK				
1	M.S. Flats(50 X 10mm)	Kg.	50	48.50	2425.00
2	M.S.Flat 25x6 mm	Kg.	20	48.50	970.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6300.00	6300.00
4	Coal	Kg.	100	15.00	1500.00



5	Salt	Kg.	100	7.00	700.00
6	Welding Rods	Nos.	50	3.50	175.00
7	Hiring of Welding machine	Nos.	1	238.00	238.00
8	Brick & Masonary works for earthing pit	Nos.	1	1750.00	1750.00
				Sub Total:	14058.00
F) PAINTING OF STRUCTURE					
1	Red Oxide Paint for 2 coats	Ltrs.	10	85.00	850.00
2	Aluminium Paint for 1 coat	Ltrs.	5	113.00	565.00
				Sub Total:	1415.00

Item Code No. 0601A

Cost data for 33 KV FEEDER BAY (Outdoor) without Gantry structure

Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	33 KV Lightning Arrestors (Station type)	Set	1	13571.00	13571.00
2	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
3	33 KV Isolators without EB (800 Amp.)	Set	1	50510.00	50510.00
4	33 KV VCB complete 1600 Amp (O.D.)	Set	1	204195.00	204195.00
5	CT 200-100/1-1 A , 33 KV	Nos.	3	23353.00	70059.00
6	C&R panel for 33 KV for feeder breaker	Nos.	1	51178.00	51178.00
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	262011.60	262011.60
8	Marshalling Box	No	1	4284.00	4284.00
9	Earthing as per Sheet (E)	L.S.	1	14058.00	14058.00

Cost of material **725056.60**

1	Transportation on material	4.00%	29002
2	T&P on material cost	1.00%	7251
3	Contingencies on material	2.50%	18126
5	Erection cost on material	5.00%	36253
6	Contractor supervision charges on material	5.00%	36253
7	Insurance , Labour & Finance Cost	3.00%	21752
Service Cost			148637
Sub-Total			873693
8	Turnkey Charges	5.00%	43685

Total **917378**

Particulars	More than Rs. 40 Crs	
	DPR Amount	Tender/ Estimate Amount
Cost with overheads on Material	1167776	917378
Total Cost of the Estimate	1167776	917378

33 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A) STRUCTURE					
1	Structure for 33 KV L.A.	Kg.	250	51.80	12950.00
2	Structure for 33 KV CT	Kg.	315	51.80	16317.00
3	G.I.Nut Bolts	Kg.	100	82.90	8290.00
4	Welding Rods	Nos.	5000	3.50	17500.00
				Sub Total	55057.00
B) FOUNDATION(Civil works)					
1	Foundation for 33 kV Isolators with EB	Cmt.	1.3	3027.00	3935.10
2	Foundation for 33 kV Isolators without EB	Cmt.	1.3	3027.00	3935.10
3	Foundation for 33 kV C.Ts	Cmt.	1.3	3027.00	3935.10
4	Foundation for 33 kV Lightning Arrestor	Cmt.	1.3	3027.00	3935.10
5	Foundation for 33 kV Breaker	Cmt.	1.3	3027.00	3935.10
6	Foundation for Gantry Structures	Cmt.	2.6	3027.00	7870.20
				Sub Total:	27545.70
C) BUS-BAR MATERIAL					
1	AAAC 232 mm2	Mtrs.	25	127.40	3185.00
2	Wedge Connectors				



a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1688.00	10128.00
4	clamps for Isolator	Nos.	12	845.00	10140.00
5	Clamps for CTs	Nos.	6	1180.00	7080.00
6	Disc Insulator 11 KV 70 KN	Nos.	18	344.00	6192.00
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	603.00	3618.00
				Sub Total:	140903.00
D)	CONTROL CABLE				
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	331.39	16569.50
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.11	2204.40
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	74.78	3739.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands, rerules and tape etc.	L.S.	L.S.	524.00	524.00
4	Angle for fixing trays 50x50x6mm	Kg.	20	51.80	1036.00
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	110.00	8800.00
6	Sand	Cmt.	4	222.00	888.00
				Sub Total:	37090.90
E)	EARTHING WORK				
1	M.S. Flats(50 X 10mm)	Kg.	50	48.50	2425.00
2	M.S.Flat 25x6 mm	Kg.	20	48.50	970.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6300.00	6300.00
4	Coal	Kg.	100	15.00	1500.00
5	Salt	Kg.	100	7.00	700.00
6	Welding Rods	Nos.	50	3.50	175.00
7	Hiring of Welding machine	Nos.	1	238.00	238.00
8	Brick & Masonary works for earthing pit	Nos.	1	1750.00	1750.00
				Sub Total:	14058.00
F)	PAINTING OF STRUCTURE				
1	Red Oxide Paint for 2 coats	Ltrs.	10	85.00	850.00
2	Aluminium Paint for 1 coat	Ltrs.	5	113.00	565.00
				Sub Total:	1415.00

Item Code No. 0602A					
Cost data for 22 KV FEEDER BAY (Outdoor) without Gantry structure					
Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	22 KV Lightning Arrestors (Screw type)	Set	1	8568.00	8568.00
2	22 KV Isolators with EB (800 A)	Set	1	41547.00	41547.00
3	22 KV Isolators without EB (800 Amp.)	Set	1	35680.00	35680.00
4	22 KV VCB complete 1600 Amp (O.D.)	Set	1	179600.00	179600.00
5	CT 200-100/1-1 A , 22 KV	Nos.	3	23767.00	71301.00
6	Control C&R Panel 22 KV for feeder with accessories.	Nos.	1	75834.00	75834.00
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	259947.60	259947.60
8	Marshalling Box	No	1	4284.00	4284.00
9	Earthing as per Sheet (E)	L.S.	1	14058.00	14058.00

Cost of material **690819.60**

1	Transportation on material	4.00%	27633
2	T&P on material cost	1.00%	6908
3	Contingencies on material	2.50%	17270
5	Erection cost on material	5.00%	34541
6	Contractor supervision charges on material	5.00%	34541
7	Insurance , Labour & Finance Cost	3.00%	20725
	Service Cost		141618
	Sub-Total		832438
8	Turnkey Charges	5.00%	41622

Total **874059**

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	1112634	874059



Total Cost of the Estimate	1112634	874059
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22 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A)	STRUCTURE				
1	Structure for 22 KV L.A.	Kg.	250	51.80	12950.00
2	Structure for 22 KV CT	Kg.	315	51.80	16317.00
3	G.I.Nut Bolts	Kg.	100	82.90	8290.00
4	Welding Rods	Nos.	5000	3.50	17500.00
				Sub Total	55057.00
B)	FOUNDATION(Civil works)				
1	Foundation for 22 kV Isolators	Cmt.	1.3	3027.00	3935.10
2	Foundation for 22 kV Isolators without EB	Cmt.	1.3	3027.00	3935.10
3	Foundation for 22 kV Lightning Arrestor	Cmt.	1.3	3027.00	3935.10
4	Foundation for 22 kV C.Ts	Cmt.	1.3	3027.00	3935.10
5	Foundation for 22 kV Breaker	Cmt.	1.3	3027.00	3935.10
6	Foundation for Gantry Structures	Cmt.	2.6	3027.00	7870.20
				Sub Total:	27545.70
C)	BUS-BAR MATERIAL				
1	AAAC 232 mm ²	Mtrs.	25	127.40	3185.00
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Noa	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1688.00	10128.00
4	clamps for Isolator	Nos.	12	845.00	10140.00
5	Clamps for CTs	Nos.	6	1180.00	7080.00
6	Disc Insulator 11 KV 70 KN	Nos.	12	344.00	4128.00
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	603.00	3618.00
				Sub Total:	138839.00
D)	CONTROL CABLE				
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	331.39	16569.50
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.11	2204.40
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	74.78	3739.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands, rerules and tape etc.	L.S.	-	524.00	524.00
4	Angle for fixing trays 50x50x6mm	Kg.	20	51.80	1036.00
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	110.00	8800.00
6	Sand	Cmt.	4	222.00	888.00
				Sub Total:	37090.90
E)	EARTHING WORK				
1	M.S. Flats(50 X 10mm)	Kg.	50	48.50	2425.00
2	M.S.Flat 25x6 mm	Kg.	20	48.50	970.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6300.00	6300.00
4	Coal	Kg.	100	15.00	1500.00
5	Salt	Kg.	100	7.00	700.00
6	Welding Rods	Nos.	50	3.50	175.00
7	Hiring of Welding machine	Nos.	1	238.00	238.00
8	Brick & Masonary works for earthing pit	Nos.	1	1750.00	1750.00
				Sub Total:	14058.00
F)	PAINTING OF STRUCTURE				
1	Red Oxide Paint for 2 coats	Ltrs.	10	85.00	850.00
2	Aluminium Paint for 1 coat	Ltrs.	5	113.00	565.00
				Sub Total:	1415.00

Item Code 0603A

Cost data for 11 KV FEEDER BAY (Outdoor) without Gantry structure

Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
2	11 KV Isolators with EB (800 A)	Set	1	30025.00	30025.00
3	11 KV Isolators without EB (800 Amp.)	Set	1	26630.00	26630.00
4	11 KV VCB 400 A Outdoor	Set	1	103600.00	103600.00
5	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	10611.00	31833.00



6	C&R Panel for 11 kV Outgoing Feeder OD	Nos.	1	49844.00	49844.00
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	259947.60	259947.60
8	Marshalling Box	No	1	4284.00	4284.00
9	Earthing as per Sheet (E)	L.S.	1	14058.00	14058.00

Cost of material **521489.60**

1	Transportation on material	4.00%	20860
2	T&P on material cost	1.00%	5215
3	Contingencies on material	2.50%	13037
5	Erection cost on material	5.00%	26074
6	Contractor supervision charges on material	5.00%	26074
7	Insurance , Labour & Finance Cost	3.00%	15645

Service Cost **106905**

Sub-Total **628395**

8	Turnkey Charges	5.00%	31420
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Total **659815**

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	839911	659815
Total Cost of the Estimate	839911	659815

11 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A)	STRUCTURE				
1	Structure for 11 KV L.A.	Kg.	250	51.80	12950.00
2	Structure for 11 KV CT	Kg.	315	51.80	16317.00
3	G.I.Nut Bolts	Kg.	100	82.90	8290.00
4	Welding Rods	Nos.	5000	3.50	17500.00
				Sub Total	55057.00
B)	FOUNDATION(Civil works)				
1	Foundation for 11 kV Isolators	Cmt.	1.3	3027.00	3935.10
2	Foundation for 11 kV Isolators without EB	Cmt.	1.3	3027.00	3935.10
3	Foundation for 11 kV Lightning Arrestor	Cmt.	1.3	3027.00	3935.10
4	Foundation for 11 kV C.Ts	Cmt.	1.3	3027.00	3935.10
5	Foundation for 11 kV Breaker	Cmt.	1.3	3027.00	3935.10
6	Foundation for Gantry Structures	Cmt.	2.6	3027.00	7870.20
				Sub Total:	27545.70
C)	BUS-BAR MATERIAL				
1	AAAC 232 mm2	Mtrs.	25	127.40	3185.00
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1688.00	10128.00
4	clamps for Isolator	Nos.	12	845.00	10140.00
5	Clamps for CTs	Nos.	6	1180.00	7080.00
6	Disc Insulator 11 KV 70 KN	Nos.	12	344.00	4128.00
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	603.00	3618.00
				Sub Total:	138839.00
D)	CONTROL CABLE				
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	331.39	16569.50
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.11	2204.40
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	74.78	3739.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands, rerules and tape etc.	L.S.	-	524.00	524.00
4	Angle for fixing trays 50x50x6mm	Kg.	20	51.80	1036.00
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	110.00	8800.00
6	Sand	Cmt.	4	222.00	888.00
				Sub Total:	37090.90



E)	EARTHING WORK				
1	M.S. Flats(50 X 10mm)	Kg.	50	48.50	2425.00
2	M.S.Flat 25x6 mm	Kg.	20	48.50	970.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6300.00	6300.00
4	Coal	Kg.	100	15.00	1500.00
5	Salt	Kg.	100	7.00	700.00
6	Welding Rods	Nos.	50	3.50	175.00
7	Hiring of Welding machine	Nos.	1	238.00	238.00
8	Brick & Masonary works for earthing pit	Nos.	1	1750.00	1750.00
				Sub Total:	14058.00
F)	PAINTING OF STRUCTURE				
1	Red Oxide Paint for 2 coats	Ltrs.	10	85.00	850.00
2	Aluminium Paint for 1 coat	Ltrs.	5	113.00	565.00
				Sub Total:	1415.00

Item Code 0601B

33 KV FEEDER BAY With Gantry structure & PT

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
1	33 KV Lightning Arrestors (Station type)	Set	1	13571.00	13571.00
2	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
3	33 KV Isolators without EB (800 Amp.)	Set	2	50510.00	101020.00
4	33 KV VCB complete 1600 Amp (O.D.)	No	1	204195.00	204195.00
5	33 KV P.T.	No	3	18876.00	56628.00
6	CT 200-100/1-1 A , 33 KV	No	3	23353.00	70059.00
7	C&R panel for 33 KV for feeder breaker	Set	1	51178.00	51178.00
8	Marshalling Box	No	1	4284.00	4284.00
9	Structure and foundation cables, clamps, painting etc. as per Table (A+B+C+D+F)	LS	1	352343.70	352343.70
10	Earthing as per Table (E)	LS	1	14058.00	14058.00
	Cost of material				922526.70

1	Transportation on material	4.00%	36901
2	T&P on material cost	1.00%	9225
3	Contingencies on material	2.50%	23063
5	Erection cost on material	5.00%	46126
6	Contractor supervision charges on material	5.00%	46126
7	Insurance , Labour & Finance Cost	3.00%	27676
	Service Cost		189118
	Sub-Total		1111645
8	Turnkey Charges	5.00%	55582
	Total		1167227

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	1485822	1167227
Total Cost of the Estimate	1485822	1167227

11 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A)	STRUCTURE				
1	Structure for 33 KV L.A.	Kg.	250	51.80	12950.00
2	Structure for 33 KV CT	Kg.	315	51.80	16317.00
3	Structure for 33 KV PT	Kg.	315	51.80	16317.00
4	G.I. Gantry Structures	Kg.	1000	70.08	70080.00
5	G.I.Nut Bolts	Kg.	100	82.90	8290.00
6	Welding Rods	Nos.	5000	3.50	17500.00
				Sub Total	141454.00
B)	FOUNDATION(Civil works)				
1	Foundation for 33 kV Isolators with EB	Cmt.	1.3	3027.00	3935.10
2	Foundation for 33 kV Isolators without EB	Cmt.	1.3	3027.00	3935.10
3	Foundation for 33 kV C.Ts	Cmt.	1.3	3027.00	3935.10



4	Foundation for 33 kV P.Ts	Cmt.	1.3	3027.00	3935.10
5	Foundation for 33 kV Lightning Arrestor	Cmt.	1.3	3027.00	3935.10
6	Foundation for 33 kV Breaker	Cmt.	1.3	3027.00	3935.10
7	Foundation for Gantry Structures	Cmt.	2.6	3027.00	7870.20
				Sub Total:	31480.80
C) BUS-BAR MATERIAL					
1	AAAC 232 mm2	Mtrs.	25	127.40	3185.00
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1688.00	10128.00
4	clamps for Isolator	Nos.	12	845.00	10140.00
5	Clamps for CTs	Nos.	6	1180.00	7080.00
6	Disc Insulator 11 KV 70 KN	Nos.	18	344.00	6192.00
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	603.00	3618.00
				Sub Total:	140903.00
D) CONTROL CABLE					
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	331.39	16569.50
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.11	2204.40
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	74.78	3739.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands, rerules and tape etc.	L.S.	L.S.	524.00	524.00
4	Angle for fixing trays 50x50x6mm	Kg.	20	51.80	1036.00
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	110.00	8800.00
6	Sand	Cmt.	4	222.00	888.00
				Sub Total:	37090.90
E) EARTHING WORK					
1	M.S. Flats(50 X 10mm)	Kg.	50	48.50	2425.00
2	M.S.Flat 25x6 mm	Kg.	20	48.50	970.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6300.00	6300.00
4	Coal	Kg.	100	15.00	1500.00
5	Salt	Kg.	100	7.00	700.00
6	Welding Rods	Nos.	50	3.50	175.00
7	Hiring of Welding machine	Nos.	1	238.00	238.00
8	Brick & Masonary works for earthing pit	Nos.	1	1750.00	1750.00
				Sub Total:	14058.00
F) PAINTING OF STRUCTURE					
1	Red Oxide Paint for 2 coats	Ltrs.	10	85.00	850.00
2	Aluminium Paint for 1 coat	Ltrs.	5	113.00	565.00
				Sub Total:	1415.00

Item Code No. 0602B

22 KV FEEDER BAY with Gantry structure & PT

Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	22 KV Lightning Arrestors (Screw type)	Set	1	8568.00	8568.00
2	22 KV Isolators with EB (800 A)	Set	1	41547.00	41547.00
3	22 KV Isolators without EB (800 Amp.)	Set	1	35680.00	35680.00
4	22 KV VCB complete 1600 Amp (O.D.)	Set	1	179600.00	179600.00
5	22 KV P.T.	No	3	17855.00	53565.00
6	CT 200-100/1-1 A , 22 KV	Nos.	3	23767.00	71301.00
7	Control C&R Panel 22 KV for feeder with accessories.	Nos.	1	75834.00	75834.00
8	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	330027.60	330027.60
9	Marshalling Box	No	1	4284.00	4284.00
10	Earthing as per Sheet (E)	L.S.	1	14058.00	14058.00

Cost of material

814464.60

1	Transportation on material	4.00%	32579
2	T&P on material cost	1.00%	8145
3	Contingencies on material	2.50%	20362
5	Erection cost on material	5.00%	40723
6	Contractor supervision charges on material	5.00%	40723
7	Insurance , Labour & Finance Cost	3.00%	24434
	Service Cost		166965
	Sub-Total		981430
8	Turnkey Charges	5.00%	49071



Total

1030501

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	1311777	1030501
Total Cost of the Estimate	1311777	1030501

22 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A)	STRUCTURE				
1	Structure for 22 KV L.A.	Kg.	250	51.80	12950.00
2	Structure for 22 KV CT	Kg.	315	51.80	16317.00
3	G.I. Gantry Structures	Kg.	1000	70.08	70080.00
4	G.I.Nut Bolts	Kg.	100	82.90	8290.00
5	Welding Rods	Nos.	5000	3.50	17500.00
				Sub Total	125137.00
B)	FOUNDATION(Civil works)				
1	Foundation for 22 kV Isolators	Cmt.	1.3	3027.00	3935.10
2	Foundation for 22 kV Isolators without EB	Cmt.	1.3	3027.00	3935.10
3	Foundation for 22 kV Lightning Arrestor	Cmt.	1.3	3027.00	3935.10
4	Foundation for 22 kV C.Ts	Cmt.	1.3	3027.00	3935.10
5	Foundation for 22 kV Breaker	Cmt.	1.3	3027.00	3935.10
6	Foundation for Gantry Structures	Cmt.	2.6	3027.00	7870.20
				Sub Total:	27545.70
C)	BUS-BAR MATERIAL				
1	AAAC 232 mm2	Mtrs.	25	127.40	3185.00
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Noa	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1688.00	10128.00
4	clamps for Isolator	Nos.	12	845.00	10140.00
5	Clamps for CTs	Nos.	6	1180.00	7080.00
6	Disc Insulator 11 KV 70 KN	Nos.	12	344.00	4128.00
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	603.00	3618.00
				Sub Total:	138839.00
D)	CONTROL CABLE				
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	331.39	16569.50
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.11	2204.40
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	74.78	3739.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands, rerules and tape etc.	L.S.	-	524.00	524.00
4	Angle for fixing trays 50x50x6mm	Kg.	20	51.80	1036.00
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	110.00	8800.00
6	Sand	Cmt.	4	222.00	888.00
				Sub Total:	37090.90
E)	EARTHING WORK				
1	M.S. Flats(50 X 10mm)	Kg.	50	48.50	2425.00
2	M.S.Flat 25x6 mm	Kg.	20	48.50	970.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6300.00	6300.00
4	Coal	Kg.	100	15.00	1500.00
5	Salt	Kg.	100	7.00	700.00
6	Welding Rods	Nos.	50	3.50	175.00
7	Hiring of Welding machine	Nos.	1	238.00	238.00
8	Brick & Masonary works for earthing pit	Nos.	1	1750.00	1750.00
				Sub Total:	14058.00
F)	PAINTING OF STRUCTURE				
1	Red Oxide Paint for 2 coats	Ltrs.	10	85.00	850.00
2	Aluminium Paint for 1 coat	Ltrs.	5	113.00	565.00
				Sub Total:	1415.00



Item Code 0603B					
11 KV FEEDER BAY with Gantry structure & PT					
Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
2	11 KV Isolators with EB (800 A)	Set	1	30025.00	30025.00
3	11 KV Isolators without EB (800 Amp.)	Set	1	26630.00	26630.00
4	11 KV VCB 400 A Outdoor	Set	1	103600.00	103600.00
5	11 KV PT	No	3	8965.00	26895.00
6	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	10611.00	31833.00
7	C&R Panel for 11 kV Outgoing Feeder OD	Nos.	1	49844.00	49844.00
8	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	350279.70	350279.70
9	Marshalling Box	No	1	4284.00	4284.00
10	Earthing as per Sheet (E)	L.S.	1	14058.00	14058.00

Cost of material **638716.70**

1	Transportation on material	4.00%	25549
2	T&P on material cost	1.00%	6387
3	Contingencies on material	2.50%	15968
5	Erection cost on material	5.00%	31936
6	Contractor supervision charges on material	5.00%	31936
7	Insurance , Labour & Finance Cost	3.00%	19162

Service Cost **130937**

Sub-Total **769654**

8	Turnkey Charges	5.00%	38483
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Total **808136**

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	1028717	808136
Total Cost of the Estimate	1028717	808136

11 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A)	STRUCTURE				
1	Structure for 11 KV L.A.	Kg.	250	51.80	12950.00
2	Structure for 11 KV CT	Kg.	315	51.80	16317.00
3	Structure for 11 KV PT	Kg.	315	51.80	16317.00
4	G.I. Gantry Structures	Kg.	1000	70.08	70080.00
5	G.I.Nut Bolts	Kg.	100	82.90	8290.00
6	Welding Rods	Nos.	5000	3.50	17500.00
				Sub Total	141454.00
B)	FOUNDATION(Civil works)				
1	Foundation for 11 kV Isolators	Cmt.	1.3	3027.00	3935.10
2	Foundation for 11 kV Isolators without EB	Cmt.	1.3	3027.00	3935.10
3	Foundation for 11 kV Lightning Arrestor	Cmt.	1.3	3027.00	3935.10
4	Foundation for 11 kV C.Ts	Cmt.	1.3	3027.00	3935.10
5	Foundation for 11 kV P.Ts	Cmt.	1.3	3027.00	3935.10
6	Foundation for 11 kV Breaker	Cmt.	1.3	3027.00	3935.10
7	Foundation for Gantry Structures	Cmt.	2.6	3027.00	7870.20
				Sub Total:	31480.80
C)	BUS-BAR MATERIAL				
1	AAAC 232 mm2	Mtrs.	25	127.40	3185.00
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1688.00	10128.00
4	clamps for Isolator	Nos.	12	845.00	10140.00
5	Clamps for CTs	Nos.	6	1180.00	7080.00
6	Disc Insulator 11 KV 70 KN	Nos.	12	344.00	4128.00



7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	603.00	3618.00
				Sub Total:	138839.00
D) CONTROL CABLE					
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	331.39	16569.50
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.11	2204.40
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	74.78	3739.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands, rerules and tape etc.	L.S.	-	524.00	524.00
4	Angle for fixing trays 50x50x6mm	Kg.	20	51.80	1036.00
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	110.00	8800.00
6	Sand	Cmt.	4	222.00	888.00
				Sub Total:	37090.90
E) EARTHING WORK					
1	M.S. Flats(50 X 10mm)	Kg.	50	48.50	2425.00
2	M.S.Flat 25x6 mm	Kg.	20	48.50	970.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6300.00	6300.00
4	Coal	Kg.	100	15.00	1500.00
5	Salt	Kg.	100	7.00	700.00
6	Welding Rods	Nos.	50	3.50	175.00
7	Hiring of Welding machine	Nos.	1	238.00	238.00
8	Brick & Masonary works for earthing pit	Nos.	1	1750.00	1750.00
				Sub Total:	14058.00
F) PAINTING OF STRUCTURE					
1	Red Oxide Paint for 2 coats	Ltrs.	10	85.00	850.00
2	Aluminium Paint for 1 coat	Ltrs.	5	113.00	565.00
				Sub Total:	1415.00

Item Code 0601D

11 KV FEEDER BAY Without main bus bar Extn. & with take off structure

Sr.No	Description	Unit	Quantity	Rate	Total Quantity
1	11 KV 250 MVA O.D. Switch gear with one I/C+ one O/G	Set	1	427944.00	427944.00
2	Earthing as per Table No 1	No	1	14058.00	14058.00
3	11 KV Takeoff Structure as per Table No 2	No	1	205175.20	205175.20
4	Painting of structure as per Table No 4	No	1	1415.00	1415.00
TOTAL COST OF MATERIAL					648592.20

1	Transportation on material	4.00%	25944
2	T&P on material cost	1.00%	6486
3	Contingencies on material	2.50%	16215
5	Erection cost on material	5.00%	32430
6	Contractor supervision charges on material	5.00%	32430
7	Insurance , Labour & Finance Cost	3.00%	19458
Service Cost			132961
Sub-Total			781554
8	Turnkey Charges	5.00%	39078

Total **820631**

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	1044623	820631
Total Cost of the Estimate	1044623	820631

Table
No 1

**EARTHING
WORK**

1	M.S. Flats(50 X 10mm)	Kg.	50	48.50	2425.00
2	M.S.Flat 25x6 mm	Kg.	20	48.50	970.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6300.00	6300.00
4	Coal	Kg.	100	15.00	1500.00
5	Salt	Kg.	100	7.00	700.00
6	Welding Rods	Nos.	50	3.50	175.00
7	Hiring of Welding machine	Nos.	1	238.00	238.00



8	Brick & Masonary works for earthing pit	Nos.	1	1750.00	1750.00
				Sub Total:	14058.00

Table No. 2 **Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 5 MVA,33/11 KV Sub Stn. (Outdoor)**

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9254.00	55524.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
8	Earthing Sets H.T	Sets	3	342.00	1026.00
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
10	AAAC 100 mm2	Rmt.	150	51.82	7773.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
12	G.I.Nut Bolts	Kg.	50	82.90	4145.00
13	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
14	Miscellaneous material	LS	1	475.00	475.00
				Total:	205175.20

Table No. 4 **PAINTING OF STRUCTURE**

1	Red Oxide Paint for 2 coats	Ltrs.	10	85.00	850.00
2	Aluminium Paint for 1 coat	Ltrs.	5	113.00	565.00
				Sub Total:	1415.00

Item Code No. 0701

Cost data for 1 Km. 33 KV S/C Line with 100 mm2 AAAC (Suspension type) & RSJ 152 X 152 mm 12 mtr. Long.

Sr.No	Particulars	Unit	Qty.	Rate	Amount
1	RSJ 152x152, 12 m long	No.	14.00	19903.00	278642.00
2	RSJ 152x152, 11 m long	No.	2.00	18245.00	36490.00
3	MS Channel 100x50x6 mm	Kg.	495.00	51.80	25641.00
4	M.S.Channel 75x40x6 mm	Kg.	91.00	51.80	4713.80
5	MS angle 50x50x6 mm	Kg.	203.00	51.80	10515.40
6	MS Flat 75x10 mm	Kg.	89.00	48.50	4316.50
7	G.I.Nut Bolts	Kg.	80.00	82.90	6632.00
8	Disc Insulator 11 KV 70 KN	No.	153.00	344.00	52632.00
9	SSN Hardware for 0.1 Dog or AAAC 100 Sq.mm	No.	33.00	225.00	7425.00
10	AAAC 100 mm2	Mtrs.	3150.00	51.82	163233.00
11	H.T.Stay Set	No.	6.00	598.00	3588.00
12	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	60.00	57.45	3447.00
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	130.00	57.40	7462.00
14	Sleve Joints	No.	3.00	115.00	345.00
15	Danger Board in yard.	No.	14.00	50.00	700.00
16	Earthing Sets H.T	No.	14.00	342.00	4788.00
17	Concreting ration 1:3:6	cmt.	25.00	3027.00	75675.00
18	G.I.Barbed Wire 'A' type.	Kg.	60.00	64.27	3856.20
19	Black bituminus paint	Ltr.	6.00	85.00	510.00
20	Red Oxide Paint for 2 coats	Ltr.	20.00	85.00	1700.00
21	Aluminium Paint for 1 coat	Ltr.	9.00	113.00	1017.00
22	Sundries	LS	LS	810.00	810.00
23	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	18	559.00	10062.00

Cost of material **704200.90**

1	Transportation on material	4.00%	28168
2	T&P on material cost	1.00%	7042
3	Contigencies on material	2.50%	17605
5	Erection cost on material	15.00%	105630
6	Contractor supervision charges on material	5.00%	35210
7	Insurance , Labour & Finance Cost	3.00%	21126
Service Cost			214781
Sub-Total			918982
8	Turnkey Charges	5.00%	45949

Total **964931**



Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	1225450	964931
Total Cost of the Estimate	1225450	964931

Assumption-

- 1) 3- cut points (including 1- rightangle cut point in 1 km.)
- 2) 2- line deviations upto 60°
- 3) 2 Strut support
- 4) 4 span guarding.
- 5) Average span length - 75 mtrs.

Item Code No. 0702					
Cost data for 33 KV S/C Line Suspension type with 100 mm ² AAAC lines on 152 X 152 mm 13 mtr. RSJ					
Sr.No	Particulars	Unit	Qty.	Rate	Amount
1	RSJ 152x152, 13 m long	No.	14.00	21562.00	301868.00
2	RSJ 152x152, 11 m long	No.	2.00	18245.00	36490.00
3	MS Channel 100x50x6 mm	Kg.	495.00	51.80	25641.00
4	M.S.Channel 75x40x6 mm	Kg.	91.00	51.80	4713.80
5	MS angle 50x50x6 mm	Kg.	203.00	51.80	10515.40
6	MS Flat 75x10 mm	Kg.	89.00	48.50	4316.50
7	G.I.Nut Bolts	Kg.	80.00	82.90	6632.00
8	Disc Insulator 11 KV 70 KN	No.	153.00	344.00	52632.00
9	SSN Hardware for 0.1 Dog or AAAC 100 Sq.mm	No.	33.00	225.00	7425.00
10	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	18.00	322.00	5796.00
11	AAAC 100 mm ²	Mtrs.	3150.00	51.82	163233.00
12	H.T.Stay Set	No.	6.00	598.00	3588.00
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	60.00	57.45	3447.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	130.00	57.40	7462.00
15	Sleeve Joints	No.	3.00	115.00	345.00
16	Danger Board in yard.	No.	14.00	50.00	700.00
17	Earthing Sets H.T	No.	14.00	342.00	4788.00
18	Concreting ration 1:3:6	cmt.	25.00	3027.00	75675.00
19	G.I.Barbed Wire 'A' type.	Kg.	60.00	64.27	3856.20
20	Black bituminous paint	Ltr.	6.00	85.00	510.00
21	Red Oxide Paint for 2 coats	Ltr.	20.00	85.00	1700.00
22	Aluminium Paint for 1 coat	Ltr.	9.00	113.00	1017.00
23	Sundries	LS	LS	810.00	810.00
24	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	18	559.00	10062.00

Cost of material

733222.90

1	Transportation on material	4.00%	29329
2	T&P on material cost	1.00%	7332
3	Contigencies on material	2.50%	18331
5	Erection cost on material	15.00%	109983
6	Contractor supervision charges on material	5.00%	36661
7	Insurance , Labour & Finance Cost	3.00%	21997

Service Cost

223633

Sub-Total

956856

8	Turnkey Charges	5.00%	47843
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Total

1004699

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	1275954	1004699
Total Cost of the Estimate	1275954	1004699

Assumption-

- 1) 3- cut points (including 1- rightangle cut point in 1 km.)
- 2) 2- line deviations upto 60°



- 3) 2 Strut support
- 4) 4 span guarding.
- 5) Average span length - 75 mtrs.

Item Code No. 0703					
Cost data for 33 KV S/C Line Pin type with 100 mm ² AAAC lines on 152 X 152 mm 11 mtr. RSJ					
Sr.No	Particulars	Unit	Qty.	Rate	Amount
1	RSJ 152x152, 11 m long	No.	17.00	18245.00	310165.00
2	RSJ 116x100, 10 m long	No.	2.00	10283.00	20566.00
3	MS Channel 100x50x6 mm	Kg.	132.00	51.80	6837.60
4	M.S.Channel 75x40x6 mm	Kg.	91.00	51.80	4713.80
5	33 KV Top Fitting	No.	14.00	382.00	5348.00
6	MS angle 50x50x6 mm	Kg.	54.00	51.80	2797.20
7	M.S. Flats(50 X 10mm)	Kg.	36.00	48.50	1746.00
8	33 kV Pin Insulators with G.I. Pins	No.	42.00	541.00	22722.00
9	Disc Insulator 11 KV 70 KN	No.	54.00	344.00	18576.00
10	G.I.Nut Bolts	Kg.	80.00	82.90	6632.00
11	Strain Hardware for Dog.0.1 or Equ.AAAC.	No.	18.00	322.00	5796.00
12	AAAC 100 mm ²	Mtrs.	3150.00	51.82	163233.00
13	H.T.Stay Set	No.	6.00	598.00	3588.00
14	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	60.00	57.45	3447.00
15	G.I.Wire 8 SWG/ 6 SWG	Kg.	130.00	57.40	7462.00
16	Sleve Joints	No.	3.00	115.00	345.00
17	Danger Board in yard.	No.	17.00	50.00	850.00
18	Earthing Sets H.T	No.	17.00	342.00	5814.00
19	Concreting ration 1:3:6	cmt.	17.50	3027.00	52972.50
20	G.I.Barbed Wire 'A' type.	Kg.	80.00	64.27	5141.60
21	Black bituminous paint	Ltr.	6.00	85.00	510.00
22	Red Oxide Paint for 2 coats	Ltr.	20.00	85.00	1700.00
23	Aluminium Paint for 1 coat	Ltr.	9.00	113.00	1017.00
24	Sundries	LS	LS	810.00	810.00
25	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	18	559.00	10062.00

Cost of material **662851.70**

1	Transportation on material	4.00%	26514
2	T&P on material cost	1.00%	6629
3	Contigencies on material	2.50%	16571
5	Erection cost on material	15.00%	99428
6	Contractor supervision charges on material	5.00%	33143
7	Insurance , Labour & Finance Cost	3.00%	19886

Service Cost **202170**

Sub-Total **865021**

8	Turnkey Charges	5.00%	43251
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Total **908273**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	1153495	908273
Total Cost of the Estimate	1153495	908273

Assumption-

- 1) 3- cut points (including 1- rightangle cut point in 1 km.)
- 2) 1- line deviations upto 60°
- 3) 2-Strut support
- 4) Average span length - 60 mtrs.
- 5) concreting for all poles, struts & stages. (1:3:6)

Item Code No. 0704					
Cost data for 33 KV S/C Line Pin type with 100 mm ² AAAC lines on 100 X 116 mm 10 mtr. RSJ Poles					
Sr.No	Particulars	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 10 m long	No.	17.00	10283.00	174811.00



2	RSJ 116x100, 9 m long	No.	2.00	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg.	132.00	51.80	6837.60
4	M.S.Channel 75x40x6 mm	Kg.	91.00	51.80	4713.80
5	33 KV V Cross Arms	No.	14.00	906.00	12684.00
6	33 KV Top Fitting	No.	14.00	382.00	5348.00
7	MS angle 50x50x6 mm	Kg.	54.00	51.80	2797.20
8	M.S. Flats(50 X 10mm)	Kg.	36.00	48.50	1746.00
9	33 kV Pin Insulators with G.I. Pins	No.	42.00	541.00	22722.00
10	G.I.Nut Bolts	Kg.	80.00	82.90	6632.00
11	Disc Insulator 11 KV 70 KN	No.	54.00	344.00	18576.00
12	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	18.00	322.00	5796.00
13	AAAC 100 mm2	Rmt	3150.00	51.82	163233.00
14	H.T.Stay Set	No.	6.00	598.00	3588.00
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	60.00	57.45	3447.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	130.00	57.40	7462.00
17	Sleeve Joints	No.	3.00	115.00	345.00
18	Danger Board in yard.	No.	17.00	50.00	850.00
19	Earthing Sets H.T	No.	17.00	342.00	5814.00
20	Concreting ration 1:3:6	cmt.	17.50	3027.00	52972.50
21	G.I.Barbed Wire 'A' type.	Kg.	80.00	64.27	5141.60
22	Black bituminus paint	Ltr.	6.00	85.00	510.00
23	Red Oxide Paint for 2 coats	Ltr.	20.00	85.00	1700.00
24	Aluminium Paint for 1 coat	Ltr.	9.00	113.00	1017.00
25	Sundries	LS	LS	810.00	810.00
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	18	559.00	10062.00

Cost of material

538123.70

1	Transportation on material	4.00%	21525
2	T&P on material cost	1.00%	5381
3	Contingencies on material	2.50%	13453
5	Erection cost on material	15.00%	80719
6	Contractor supervision charges on material	5.00%	26906
7	Insurance , Labour & Finance Cost	3.00%	16144
Service Cost			164128
Sub-Total			702251
8	Turnkey Charges	5.00%	35113

Total

737364

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	936443
Total Cost of the Estimate	936443	737364

Assumption-

- 1) 3- cut points (including 1- rightangle cut point in 1 km.)
- 2) 1- line deviations upto 60°
- 3) 2-Strut support
- 4) Average span length - 60 mtrs.
- 5) concreting for all poles, struts & stages. (1:3:6)

Item Code No. 0706					
33 kV Single Circuit with 100 sqmm Express/Highway Crossing on 152 X 152 RSJ 13 mtr Poles					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	21562.00	86248.00
2	M.S.Channel 75x40x6 mm	Kg.	60	51.80	3108.00
3	MS Channel 100x50x6 mm	Kg.	70	51.80	3626.00
4	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
5	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
6	AAAC 100 mm2	mtr.	100	51.82	5182.00
7	33 kV Pin Insulators with G.I. Pins	NO.	6	541.00	3246.00
8	Disc Insulator 11 KV 45 KN	NO.	36	244.00	8784.00
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	322.00	3864.00
10	H.T.Stay Set	No	4	598.00	2392.00



11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	20	57.45	1149.00
12	Earthing Sets H.T	No.	4	342.00	1368.00
13	Danger Board in yard.	No.	4	50.00	200.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
15	G.I.Barbed Wire 'A' type.	kg.	30	64.27	1928.10
16	Black Bituminus Paint	Ltr.	2	85.00	170.00
17	Red Oxide Paint for 2 coats	Ltr.	6	85.00	510.00
18	Aluminium Paint for 1 coat	Ltr.	4	113.00	452.00
19	Concreting ration 1:3:6	CMT.	4	3027.00	12108.00
20	Sundries	L.S.	1	810.00	810.00
21	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	12	559.00	6708.00

Cost of material

145591.70

1	Transportation on material	4.00%	5824
2	T&P on material cost	1.00%	1456
3	Contingencies on material	2.50%	3640
5	Erection cost on material	15.00%	21839
6	Contractor supervision charges on material	5.00%	7280
7	Insurance , Labour & Finance Cost	3.00%	4368

Service Cost

44405

Sub-Total

189997

8	Turnkey Charges	5.00%	9500
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Total

199497

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	253359	199497
Total Cost of the Estimate	253359	199497

Item Code No. 0707					
33 kV Single Circuit road crossing with 100sqmm on 100 X 116mm,10 mtr RSJ Poles					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
	RSJ 116x100, 10 m long	No.	4	10283.00	41132.00
	MS Channel 100x50x6 mm	Kg.	70	51.80	3626.00
4	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
5	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
7	AAAC 100 mm2	m	100	51.82	5182.00
8	33 kV Pin Insulators with G.I. Pins	NO.	6	541.00	3246.00
11	Disc Insulator 11 KV 45 KN	NO.	36	244.00	8784.00
12	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	322.00	3864.00
13	H.T.Stay Set	No	4	598.00	2392.00
14	G.I.Stay Wire 7/4mm(8 SWG)	kg.	20	57.45	1149.00
15	Earthing Sets H.T	No.	4	342.00	1368.00
16	Danger Board in yard.	No.	4	50.00	200.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
18	G.I.Barbed Wire 'A' type.	kg.	30	64.27	1928.10
19	Black Bituminus Paint	Ltr.	2	85.00	170.00
20	Red Oxide Paint for 2 coats	Ltr.	6	85.00	510.00
21	Aluminium Paint for 1 coat	Ltr.	4	113.00	452.00
22	Concreting ration 1:3:6	CMT.	4	3027.00	12108.00
23	Sundries	L.S.	1	810.00	810.00
24	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	12	559.00	6708.00

Cost of material

97367.70

1	Transportation on material	4.00%	3895
2	T&P on material cost	1.00%	974
3	Contingencies on material	2.50%	2434
5	Erection cost on material	15.00%	14605
6	Contractor supervision charges on material	5.00%	4868
7	Insurance , Labour & Finance Cost	3.00%	2921

Service Cost

29697



Sub-Total		127065
8 Turnkey Charges	5.00%	6353

Total **133418**

Particulars	More than Rs. 40 Crs	
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	169439	133418
Total Cost of the Estimate	169439	133418

Item Code 0708					
Cost Data for laying of 1 Km. 33 KV 3 C 300 mm 2 XLPE under ground Cable					
Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount
1	XLPE Cable 33 KV, 3 C / 300 mm sq.	Rmt	1000.00	1737.00	1737000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	RCC Tiles (0.6 x 0.5) Mtrs.	No.	940.00	104.00	97760.00
4	33 kV Heat shrik Straight through joint (AI) kit for XLPE 3 C X 300 sqmm	No.	2.00	36900.00	73800.00
5	33 kV Heat shrik Outdoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	2.00	19028.00	38056.00
6	Sand	Cmt.	250.00	222.00	55500.00
7	Misc. for XLPE U/G Cable	LS	1.00	1050.00	1050.00
Cost of material					2020326.00

1	Transportation on material	4.00%	80813
2	T&P on material cost	1.00%	20203
3	Contingencies on material	2.50%	50508
5	Erection cost on material	15.00%	303049
6	Contractor supervision charges on material	5.00%	101016
7	Insurance , Labour & Finance Cost	3.00%	60610
Service Cost			616199
Sub-Total			2636525
8	Turnkey Charges	5.00%	131826

Total **2768352**

Particulars	More than Rs. 40 Crs	
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	3515771	2768352
Total Cost of the Estimate	3515771	2768352

Item Code No. 0709					
33 kV 3 X 300 sqmm XLPE Underground Cable for Railway line crossing					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	21562.00	86248.00
2	M.S.Channel 75x40x6 mm	Kg.	60	51.80	3108.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
5	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
6	33 KV Isolators with EB (800 A)	Set	2	55190.00	110380.00
7	33 kV Pin Insulators with G.I. Pins	NO.	6	541.00	3246.00
8	AAAC 100 mm2	Rmt	100	51.82	5182.00
9	XLPE Cable 33 KV, 3 C / 300 mm sq.	Rmt	160.00	1737.00	277920.00
10	R.C.C. Pipe 150 mm 2 M	No	35.00	572.00	20020.00
11	Black Bituminous Paint	Ltr.	2	85.00	170.00
12	Red Oxide Paint for 2 coats	Ltr.	6	85.00	510.00
13	Aluminium Paint for 1 coat	Ltr.	4	113.00	452.00
14	33 kV Heat shrik Outdoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	4.00	19028.00	76112.00
15	Sand	Cmt	500.00	222.00	111000.00
16	Misc. for XLPE U/G Cable	LS	2.00	1050.00	2100.00
Cost of material					703931.60



1	Transportation on material	4.00%	28157
2	T&P on material cost	1.00%	7039
3	Contingencies on material	2.50%	17598
5	Erection cost on material	15.00%	105590
6	Contractor supervision charges on material	5.00%	35197
7	Insurance , Labour & Finance Cost	3.00%	21118
	Service Cost		214699
	Sub-Total		918631
8	Turnkey Charges	5.00%	45932

Total **964562**

Particulars	More than Rs. 40 Crs	
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1224982	964562
Total Cost of the Estimate	1224982	964562

Item Code No. 0710					
33 kV Single Circuit 100sqmm, RIVER Crossing on 152 X 152 RSJ 13 mtr H Poles					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	21562.00	86248.00
2	M.S.Channel 75x40x6 mm	Kg.	80	51.80	4144.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
5	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
6	AAAC 100 mm2	m	100	51.82	5182.00
7	33 kV Pin Insulators with G.I. Pins	NO.	6	541.00	3246.00
8	Disc Insulator 11 KV 45 KN	NO.	36	244.00	8784.00
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	322.00	3864.00
10	H.T.Stay Set	No	4	598.00	2392.00
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	20	57.45	1149.00
12	Earthing Sets H.T	No.	4	342.00	1368.00
13	Danger Board in yard.	No.	4	50.00	200.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
15	G.I.Barbed Wire 'A' type.	kg.	30	64.27	1928.10
16	Black Bituminus Paint	Ltr.	2	85.00	170.00
17	Red Oxide Paint for 2 coats	Ltr.	6	85.00	510.00
18	Aluminium Paint for 1 coat	Ltr.	4	113.00	452.00
19	Concreting ration 1:3:6	CMT.	4	3027.00	12108.00
20	Sundries	L.S.	1	810.00	810.00
21	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	12	559.00	6708.00

Cost of material **148181.70**

1	Transportation on material	4.00%	5927
2	T&P on material cost	1.00%	1482
3	Contingencies on material	2.50%	3705
5	Erection cost on material	15.00%	22227
6	Contractor supervision charges on material	5.00%	7409
7	Insurance , Labour & Finance Cost	3.00%	4445
	Service Cost		45195
	Sub-Total		193377
8	Turnkey Charges	5.00%	9669

Total **203046**

Particulars	More than Rs. 40 Crs	
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	257866	203046
Total Cost of the Estimate	257866	203046



Item Code No. 0711					
DOUPLE POLE STRUCTURE(cut point) OF- 33 KV LINE USING13 M LONG RSJ POLE					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	2	21562.00	43124.00
2	M.S. Flats(50 X 10mm)	Kg.	10	48.50	485.00
3	MS Channel 100x50x6 mm	Kg.	46	51.80	2382.80
4	MS angle 50x50x6 mm	Kg.	50	51.80	2590.00
5	33 kv guarding channel MS100x50	Kg.	80.00	51.80	4144.00
6	33 kV Pin Insulators with G.I. Pins	No.	3	541.00	1623.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	322.00	1932.00
8	Disc Insulator 11 KV 70 KN	No.	18	344.00	6192.00
9	H.T.Stay Set	No.	4	598.00	2392.00
10	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	20	57.45	1149.00
11	Earthing Sets H.T	No	2	342.00	684.00
12	G.I.Wire 8 SWG/ 6 SWG	kg.	6	57.40	344.40
13	G.I.Barbed Wire 'A' type.	kg.	7	64.27	449.89
14	Danger Board in yard.	No.	2	50.00	100.00
15	Black Bituminus Paint	Ltr.	1	85.00	85.00
16	Red Oxide Paint for 2 coats	Ltr.	3	85.00	255.00
17	Aluminium Paint for 1 coat	Ltr.	2	113.00	226.00
18	Concreting ration 1:3:6	Cmt.	2	3027.00	6054.00
19	Sundries	LS	1	810.00	810.00

Cost of material **75022.09**

1	Transportation on material	4.00%	3001
2	T&P on material cost	1.00%	750
3	Contingencies on material	2.50%	1876
5	Erection cost on material	15.00%	11253
6	Contractor supervision charges on material	5.00%	3751
7	Insurance , Labour & Finance Cost	3.00%	2251

Service Cost **22882**

Sub-Total **97904**

8	Turnkey Charges	5.00%	4895
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Total **102799**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	130553	102799
Total Cost of the Estimate	130553	102799

Item Code No. 0712					
DOUPLE POLE STRUCTURE (cut point) OF- 33 KV LINE USING 11 M LONG RSJ POLE 152 x 152					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 11 m long	No.	2	18245.00	36490.00
2	M.S. Flats(50 X 10mm)	Kg.	10	48.50	485.00
3	MS Channel 100x50x6 mm	Kg.	46	51.80	2382.80
4	MS angle 50x50x6 mm	Kg.	50	51.80	2590.00
5	33 kv guarding channel MS100x50	Kg.	80.00	51.80	4144.00
6	33 kV Pin Insulators with G.I. Pins	No.	3	541.00	1623.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	322.00	1932.00
8	Disc Insulator 11 KV 70 KN	No.	18	344.00	6192.00
9	H.T.Stay Set	No.	4	598.00	2392.00
10	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	20	57.45	1149.00
11	Earthing Sets H.T	No	2	342.00	684.00
12	G.I.Wire 8 SWG/ 6 SWG	kg.	6	57.40	344.40
13	G.I.Barbed Wire 'A' type.	kg.	7	64.27	449.89
14	Danger Board in yard.	No.	2	50.00	100.00
15	Black Bituminus Paint	Ltr.	1	85.00	85.00
16	Red Oxide Paint for 2 coats	Ltr.	3	85.00	255.00
17	Aluminium Paint for 1 coat	Ltr.	2	113.00	226.00
18	Concreting ration 1:3:6	Cmt.	2	3027.00	6054.00



19	Sundries	LS	1	810.00	810.00
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Cost of material **68388.09**

1	Transportation on material	4.00%	2736
2	T&P on material cost	1.00%	684
3	Contingencies on material	2.50%	1710
5	Erection cost on material	15.00%	10258
6	Contractor supervision charges on material	5.00%	3419
7	Insurance , Labour & Finance Cost	3.00%	2052

Service Cost **20858**

Sub-Total **89246**

8	Turnkey Charges	5.00%	4462
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Total **93709**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	119009	93709
Total Cost of the Estimate	119009	93709

Item Code No. 0713

DOUPLE POLE STRUCTURE(cut point) OF- 33 KV LINE USING 11 M LONG RSJ POLE 116x100

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 11 m long	No.	2	11311.00	22622.00
2	M.S. Flats(50 X 10mm)	Kg.	10	48.50	485.00
3	MS Channel 100x50x6 mm	Kg.	46	51.80	2382.80
4	MS angle 50x50x6 mm	Kg.	50	51.80	2590.00
5	33 kv guarding channel MS100x50	Kg.	80.00	51.80	4144.00
6	33 kV Pin Insulators with G.I. Pins	No.	3	541.00	1623.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	322.00	1932.00
8	Disc Insulator 11 KV 70 KN	No.	18	344.00	6192.00
9	H.T.Stay Set	No.	4	598.00	2392.00
10	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	20	57.45	1149.00
11	Earthing Sets H.T	No	2	342.00	684.00
12	G.I.Wire 8 SWG/ 6 SWG	kg.	6	57.40	344.40
13	G.I.Barbed Wire 'A' type.	kg.	7	64.27	449.89
14	Danger Board in yard.	No.	2	50.00	100.00
15	Black Bituminus Paint	Ltr.	1	85.00	85.00
16	Red Oxide Paint for 2 coats	Ltr.	3	85.00	255.00
17	Aluminium Paint for 1 coat	Ltr.	2	113.00	226.00
18	Concreting ration 1:3:6	Cmt.	2	3027.00	6054.00
19	Sundries	LS	1	810.00	810.00

Cost of material **54520.09**

1	Transportation on material	4.00%	2181
2	T&P on material cost	1.00%	545
3	Contingencies on material	2.50%	1363
5	Erection cost on material	15.00%	8178
6	Contractor supervision charges on material	5.00%	2726
7	Insurance , Labour & Finance Cost	3.00%	1636

Service Cost **16629**

Sub-Total **71149**

8	Turnkey Charges	5.00%	3557
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Total **74706**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	94876	74706
Total Cost of the Estimate	94876	74706



Item Code No. 0714

SINGLE POLE CUT POINT STRUCTURE FOR 33KV LINE ON RSJ 13 M POLE

S.N.	Description of material	Unit	Qty.	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	1	21562.00	21562.00
2	RSJ 152x152, 12 m long	No.	1	19903.00	19903.00
3	MS Channel 100x50x6 mm	Kg.	35	51.80	1813.00
4	MS angle 50x50x6 mm	Kg.	50	51.80	2590.00
5	33 kv guarding channel MS100x50	Kg.	40.00	51.80	2072.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	322.00	1932.00
7	Disc Insulator 11 KV 70 KN	No.	18	344.00	6192.00
8	H.T.Stay Set	No.	2	598.00	1196.00
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	10	57.45	574.50
10	Earthing Sets H.T	No.	1	342.00	342.00
11	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	57.40	114.80
12	G.I.Barbed Wire 'A' type.	Kg.	2	64.27	128.54
13	Danger Board in yard.	No.	1	50.00	50.00
14	Concreting ration 1:3:6	Cmt.	1.5	3027.00	4540.50
15	Black Bituminus Paint	Ltr.	0.5	85.00	42.50
16	Red Oxide Paint for 2 coats	Ltr.	1.5	85.00	127.50
17	Aluminium Paint for 1 coat	Ltr.	1	113.00	113.00
18	Sundries	LS	1	810.00	810.00

Cost of material

64103.34

1	Transportation on material	4.00%	2564
2	T&P on material cost	1.00%	641
3	Contingencies on material	2.50%	1603
5	Erection cost on material	15.00%	9616
6	Contractor supervision charges on material	5.00%	3205
7	Insurance , Labour & Finance Cost	3.00%	1923
Service Cost			19552
Sub-Total			83655
8	Turnkey Charges	5.00%	4183

Total

87838

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	111553	87838
Total Cost of the Estimate	111553	87838

Item Code No. 0715

SINGLE POLE CUT POINT STRUCTURE FOR 33KV LINE ON RSJ 11 M POLE

S.N.	Description of material	Unit	Qty.	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 11 m long	No.	1	18245.00	18245.00
2	RSJ 152x152, 10 m long	No.	1	16586.00	16586.00
3	MS Channel 100x50x6 mm	Kg.	35	51.80	1813.00
4	MS angle 50x50x6 mm	Kg.	50	51.80	2590.00
5	33 kv guarding channel MS100x50	Kg.	40.00	51.80	2072.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	322.00	1932.00
7	Disc Insulator 11 KV 70 KN	No.	18	344.00	6192.00
8	H.T.Stay Set	No.	2	598.00	1196.00
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	10	57.45	574.50
10	Earthing Sets H.T	No.	1	342.00	342.00
11	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	57.40	114.80
12	G.I.Barbed Wire 'A' type.	Kg.	2	64.27	128.54
13	Danger Board in yard.	No.	1	50.00	50.00
14	Concreting ration 1:3:6	Cmt.	1.5	3027.00	4540.50
15	Black Bituminus Paint	Ltr.	0.5	85.00	42.50
16	Red Oxide Paint for 2 coats	Ltr.	1.5	85.00	127.50
17	Aluminium Paint for 1 coat	Ltr.	1	113.00	113.00
18	Sundries	LS	1	810.00	810.00

Cost of material

57469.34

1	Transportation on material	4.00%	2299
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2	T&P on material cost	1.00%	575
3	Contingencies on material	2.50%	1437
5	Erection cost on material	15.00%	8620
6	Contractor supervision charges on material	5.00%	2873
7	Insurance , Labour & Finance Cost	3.00%	1724
	Service Cost		17528
	Sub-Total		74997
8	Turnkey Charges	5.00%	3750

Total **78747**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	100008	78747
Total Cost of the Estimate	100008	78747

Item Code No. 0718

Cost data for 33 KV S/C Line Pin type with 100 mm² AAAC lines on 100 X 116 mm 11 mtr. RSJ Poles

Sr.No	Particulars	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 11 m long	No.	17.00	11311.00	192287.00
2	RSJ 116x100, 10 m long	No.	2.00	10283.00	20566.00
3	MS Channel 100x50x6 mm	Kg.	132.00	51.80	6837.60
4	M.S.Channel 75x40x6 mm	Kg.	91.00	51.80	4713.80
5	MS angle 50x50x6 mm	Kg.	54.00	51.80	2797.20
6	M.S. Flats(50 X 10mm)	Kg.	36.00	48.50	1746.00
7	33 kV Pin Insulators with G.I. Pins	No.	42.00	541.00	22722.00
8	33 KV V Cross Arms	No.	14.00	906.00	12684.00
9	33 KV Top Fitting	No.	14.00	382.00	5348.00
10	G.I.Nut Bolts	Kg.	80.00	82.90	6632.00
11	Disc Insulator 11 KV 70 KN	No.	54.00	344.00	18576.00
12	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	18.00	322.00	5796.00
13	AAAC 100 mm ²	Rmt	3150.00	51.82	163233.00
14	H.T.Stay Set	No.	6.00	598.00	3588.00
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	60.00	57.45	3447.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	130.00	57.40	7462.00
17	Sleve Joints	No.	3.00	115.00	345.00
18	Danger Board in yard.	No.	17.00	50.00	850.00
19	Earthing Sets H.T	No.	17.00	342.00	5814.00
20	Concreting ration 1:3:6	cmt.	17.50	3027.00	52972.50
21	G.I.Barbed Wire 'A' type.	Kg.	80.00	64.27	5141.60
22	Black bituminous paint	Ltr.	6.00	85.00	510.00
23	Red Oxide Paint for 2 coats	Ltr.	20.00	85.00	1700.00
24	Aluminium Paint for 1 coat	Ltr.	9.00	113.00	1017.00
25	Sundries	LS	LS	810.00	810.00
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	18	559.00	10062.00

Cost of material **557657.70**

1	Transportation on material	4.00%	22306
2	T&P on material cost	1.00%	5577
3	Contingencies on material	2.50%	13941
5	Erection cost on material	15.00%	83649
6	Contractor supervision charges on material	5.00%	27883
7	Insurance , Labour & Finance Cost	3.00%	16730
	Service Cost		170086
	Sub-Total		727743
8	Turnkey Charges	5.00%	36387

Total **764130**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%



Cost with overheads on Material	970436	764130
Total Cost of the Estimate	970436	764130

Assumption-

- 1) 3- cut points (including 1- rightangle cut point in 1 km.)
- 2) 1- line deviations upto 60°
- 3) 2-Strut support
- 4) Average span length - 60 mtrs.
- 5) concreting for all poles, struts & stages. (1:3:6)

Item Code No. 0720					
33 kV Pin type line with 100 sq. mm AAAC conductor on 152 X 152mm, 13 mtr RSJ pole					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	RSJ 152x152, 13 m long	No	17	21562.00	366554.00
2	RSJ 116x100, 12 m long	No	2	12339.00	24678.00
3	33 KV V Cross Arms	No	14	906.00	12684.00
4	Clamps for 152 x 152 mm RSJ Pole Stay	Pair	34	252.00	8568.00
5	Clamps for 100 x 116 mm RSJ Pole Stay	Pair	4	170.00	680.00
6	33 KV Top Fitting	No	14	382.00	5348.00
7	33 kV Pin Insulators with G.I. Pins	No	42	541.00	22722.00
8	Disc Insulator 11 KV 70 KN	No	54	344.00	18576.00
9	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	18	322.00	5796.00
10	H.T.Stay Set	Set	6	598.00	3588.00
11	MS Channel 100x50x6 mm	Kg	105	51.80	5439.00
12	33 kv guarding channel MS100x50	Kg.	250.00	51.80	12950.00
13	G.I.Nut Bolts	Kg	100	82.90	8290.00
14	Earthing Sets H.T	Set	32	342.00	10944.00
15	AAAC 100 mm2	Rmt	2000	51.82	103640.00
16	Danger Board in yard.	No	32	50.00	1600.00
17	Red Oxide Paint for 2 coats	Ltr	30	85.00	2550.00
18	Aluminium Paint for 1 coat	Ltr	30	113.00	3390.00
19	Sundries	LS	1	810.00	810.00
20	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	18	559.00	10062.00
Cost of Material					617997.00

1	Transportation on material	4.00%	24720
2	T&P on material cost	1.00%	6180
3	Contingencies on material	2.50%	15450
5	Erection cost on material	15.00%	92700
6	Contractor supervision charges on material	5.00%	30900
7	Insurance , Labour & Finance Cost	3.00%	18540
Service Cost			188489
Sub-Total			806486
8	Turnkey Charges	5.00%	40324

Total 846810

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1075438	846810
Total Cost of the Estimate	1075438	846810

Item Code No. 0721					
33 kV Tapping structure using 100 X 116, 11 mtr RSJ pole.					
Sr.No	Description of Material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 11 m long	No	4	11311.00	45244.00
2	RSJ 116x100, 10 m long	No	0	10283.00	0.00
3	MS Channel 100x50x6 mm	Kg	204	51.80	10567.20
4	M.S.Channel 75x40x6 mm	Kg	300	51.80	15540.00
5	MS angle 50x50x6 mm	Kg	45	51.80	2331.00
6	M.S. Flats(50 X 10mm)	Kg	35	48.50	1697.50
7	33 kV Pin Insulators with G.I. Pins	No	3	541.00	1623.00
8	G.I.Nut Bolts	Kg	10	82.90	829.00



9	Disc Insulator 11 KV 70 KN	No	18	344.00	6192.00
10	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	6	322.00	1932.00
11	H.T.Stay Set	Set	4	598.00	2392.00
12	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	40.00	57.45	2298.00
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	15.000	57.40	861.00
14	Aluminium Jointing Sleeve for 100 Sq mm AAAC	No	6	118.00	708.00
15	Danger Board in yard.	No	4	50.00	200.00
16	Earthing Sets H.T	Set	4	342.00	1368.00
17	G.I.Barbed Wire 'A' type.	Kg.	10.00	64.27	642.70
18	33 KV Isolators without EB (800 Amp.)	Set	1.00	50510.00	50510.00
19	Sundries such as N/B, Washers, Welding etc.	LS	1.00	2900.00	2900.00

Cost of Material 147835.40

1	Transportation on material	4.00%	5913
2	T&P on material cost	1.00%	1478
3	Contingencies on material	2.50%	3696
5	Erection cost on material	15.00%	22175
6	Contractor supervision charges on material	5.00%	7392
7	Insurance , Labour & Finance Cost	3.00%	4435

Service Cost 45090

Sub-Total 192925

8	Turnkey Charges	5.00%	9646
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Total 202571

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	257263	202571
Total Cost of the Estimate	257263	202571

Item Code No. 0725					
Express/Highway Crossing with 232 sqmm AAAC Cooductor on 152 X 152, 13 mtr RSJ Poles					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	21562.00	86248.00
2	M.S.Channel 75x40x6 mm	Kg.	80	51.80	4144.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
5	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
6	AAAC 232 mm2	mtr.	100	127.40	12740.00
6	33 kV Pin Insulators with G.I. Pins	NO.	6	541.00	3246.00
7	Disc Insulator 11 KV 45 KN	NO.	36	244.00	8784.00
8	Strain Hardware for AAAC232 sq.mm.	No.	12	603.00	7236.00
9	H.T.Stay Set	No	4	598.00	2392.00
10	G.I.Stay Wire 7/4mm(8 SWG)	kg.	20	57.45	1149.00
11	Earthing Sets H.T	No.	4	342.00	1368.00
12	Danger Board in yard.	No.	4	50.00	200.00
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
14	G.I.Barbed Wire 'A' type.	kg.	30	64.27	1928.10
15	Black Bituminus Paint	Ltr.	2	85.00	170.00
16	Red Oxide Paint for 2 coats	Ltr.	6	85.00	510.00
17	Aluminium Paint for 1 coat	Ltr.	4	113.00	452.00
18	Concreting ration 1:3:6	CMT.	4	3027.00	12108.00
19	Sundries	L.S.	1	810.00	810.00
20	Wedge connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	No	12	718.00	8616.00

Cost of material 161019.70

1	Transportation on material	4.00%	6441
2	T&P on material cost	1.00%	1610
3	Contingencies on material	2.50%	4025
5	Erection cost on material	15.00%	24153
6	Contractor supervision charges on material	5.00%	8051
7	Insurance , Labour & Finance Cost	3.00%	4831

Service Cost 49111



Sub-Total

210131

8 Turnkey Charges

5.00%

10507

Total

220637

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	280206	220637
Total Cost of the Estimate	280206	220637

Item Code No. 0726

Road Crossing with 232 sqmm AAAC Conductor on 152 X 152, 10 mtr RSJ Poles

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 10 m long	No.	4	16586.00	66344.00
2	M.S.Channel 75x40x6 mm	Kg.	80	51.80	4144.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
5	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
6	AAAC 232 mm2	m	100	127.40	12740.00
6	33 kV Pin Insulators with G.I. Pins	NO.	6	541.00	3246.00
7	Disc Insulator 11 KV 45 KN	NO.	36	244.00	8784.00
8	Strain Hardware for AAAC232 sq.mm.	No.	12	603.00	7236.00
9	H.T.Stay Set	No	4	598.00	2392.00
10	G.I.Stay Wire 7/4mm(8 SWG)	kg.	20	57.45	1149.00
11	Earthing Sets H.T	No.	4	342.00	1368.00
12	Danger Board in yard.	No.	4	50.00	200.00
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
14	G.I.Barbed Wire 'A' type.	kg.	30	64.27	1928.10
15	Black Bituminous Paint	Ltr.	2	85.00	170.00
16	Red Oxide Paint for 2 coats	Ltr.	6	85.00	510.00
17	Aluminium Paint for 1 coat	Ltr.	4	113.00	452.00
18	Concreting ration 1:3:6	CMT.	4	3027.00	12108.00
19	Sundries	L.S.	1	810.00	810.00
20	Wedge connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	No	12	718.00	8616.00

Cost of material

141115.70

1	Transportation on material	4.00%	5645
2	T&P on material cost	1.00%	1411
3	Contingencies on material	2.50%	3528
5	Erection cost on material	15.00%	21167
6	Contractor supervision charges on material	5.00%	7056
7	Insurance , Labour & Finance Cost	3.00%	4233
	Service Cost		43040
	Sub-Total		184156
8	Turnkey Charges	5.00%	9208

Total

193364

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	245570	193364
Total Cost of the Estimate	245570	193364

Item Code No.801

Cost data for Pin type, 22 KV, ACSR Weasel conductor on 116 X 100 mm,11 mtr long RSJ Poles

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 11 m long	No.	15	11311.00	169665.00
2	RSJ 116x100, 9 m long	No.	2	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg.	177	51.80	9168.60
4	M.S.Channel 75x40x6 mm	Kg.	122	51.80	6319.60



5	MS angle 50x50x6 mm	Kg.	72	51.80	3729.60
6	M.S. Flats(50 X 10mm)	Kg.	34	48.50	1649.00
7	22 KV V cross arm with clamp	No.	13.00	906.00	11778.00
8	22 KV Top Fitting	No.	13.00	382.00	4966.00
9	G.I.Nut Bolts	Kg.	80	82.90	6632.00
10	22 kV Pin Insulators with G.I. Pins	No.	33	336.00	11088.00
11	Disc Insulator 11 KV 45 KN	No.	48	244.00	11712.00
12	Strain Hardware forWeasel/Squirrel	Set	24	179.00	4296.00
13	ACSR Weasel	Rmt	3150	18.50	58275.00
14	H.T.Stay Set	Set	8	598.00	4784.00
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
16	Earthing Sets H.T	Set	15	342.00	5130.00
17	G.I.Barbed Wire 'A' type.	Kg.	66	64.27	4241.82
18	Danger Board in yard.	No.	15	50.00	750.00
19	Black Bituminous Paint	Ltr.	6	85.00	510.00
20	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
21	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
22	Concreting ration 1:3:6	Cmt.	17.5	3027.00	52972.50
23	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
24	Sundries	LS	1	810.00	810.00
25	Wedge connectors				
a)	WEASEL TO WEASEL or equivalent AAAC	No	24	114.00	2736.00

Cost of material

404496.12

1	Transportation on material	4.00%	16180
2	T&P on material cost	1.00%	4045
3	Contingencies on material	2.50%	10112
5	Erection cost on material	15.00%	60674
6	Contractor supervision charges on material	5.00%	20225
7	Insurance , Labour & Finance Cost	3.00%	12135
Service Cost			123371
Sub-Total			527867
8	Turnkey Charges	5.00%	26393

Total

554261

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	703904	554261
Total Cost of the Estimate	703904	554261

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) 2- line deviations upto 60°
- 3) 2 Strut support
- 4) 5 Spans carpet guarding.
- 5) Average span lengthe - 70 mtrs.
- 6) Conceriting for all poles, struts & stages. (1:4:8)

Item Code No. 0804

Cost data for 22 KV Single circuit Suspension type with 100sq.mm AAAC lines on 152x152 mm 11 mtr RSJ poles

(A) HT Line :

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 152x152, 11 m long	No.	17	18245.00	310165.00
2	RSJ 116x100, 10 m long	No.	2	10283.00	20566.00
3	MS Channel 100x50x6 mm	Kg.	607	51.80	31442.60
4	M.S.Channel 75x40x6 mm	Kg.	122	51.80	6319.60
5	MS angle 50x50x6 mm	Kg.	248	51.80	12846.40
6	M.S. Flats(50 X 10mm)	Kg.	107	48.50	5189.50
7	G.I.Nut Bolts	Kg.	90	82.90	7461.00
8	Disc Insulator 11 KV 45 KN	No.	126	244.00	30744.00
9	SSN Hardware for 0.1 Dog or AAAC 100 Sq.mm	No.	39.00	225.00	8775.00
10	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	24.00	322.00	7728.00
11	AAAC 100 mm2	Rmt	3150	51.82	163233.00
12	Sleve Joints	No.	3	115.00	345.00



13	H.T.Stay Set	Set	8	598.00	4784.00
14	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
15	Earthing Sets H.T	Set	17	342.00	5814.00
16	G.I.Barbed Wire 'A' type.	Kg.	77	64.27	4948.79
17	Danger Board in yard.	No.	17	50.00	850.00
18	Concreting ration 1:3:6	Cmt.	20	3027.00	60540.00
19	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
20	Black Bituminus Paint	Ltr.	6	85.00	510.00
21	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
22	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
23	Sundries	LS	1	810.00	810.00
24	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	559.00	13416.00

Cost of material

711262.89

1	Transportation on material	4.00%	28451
2	T&P on material cost	1.00%	7113
3	Contigencies on material	2.50%	17782
5	Erection cost on material	15.00%	106689
6	Contractor supervision charges on material	5.00%	35563
7	Insurance , Labour & Finance Cost	3.00%	21338

Service Cost

216935

Sub-Total

928198

8	Turnkey Charges	5.00%	46410
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Total

974608

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1237740	974608
Total Cost of the Estimate	1237740	974608

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 5 strut support considered.

Item Code No. 0805

Cost data for 22 KV Single circuit suspenstion type with 100sq.mm AAAC lines on 152x152 mm 13 mtr RSJ poles

(A) HT Line :

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 152x152, 13 m long	No.	17	21562.00	366554.00
2	RSJ 116x100, 11 m long	No.	2	11311.00	22622.00
3	MS Channel 100x50x6 mm	Kg.	607	51.80	31442.60
4	M.S.Channel 75x40x6 mm	Kg.	122	51.80	6319.60
5	MS angle 50x50x6 mm	Kg.	248	51.80	12846.40
6	M.S. Flats(50 X 10mm)	Kg.	107	48.50	5189.50
7	G.I.Nut Bolts	Kg.	90	82.90	7461.00
8	Disc Insulator 11 KV 45 KN	No.	126	244.00	30744.00
9	SSN Hardware for 0.1 Dog or AAAC 100 Sq.mm	No.	39.00	225.00	8775.00
10	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	24.00	322.00	7728.00
11	AAAC 100 mm2	Rmt	3150	51.82	163233.00
12	Sieve Joints	No.	3	115.00	345.00
13	H.T.Stay Set	Set	8	598.00	4784.00
14	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
15	Earthing Sets H.T	Set	17	342.00	5814.00
16	G.I.Barbed Wire 'A' type.	Kg.	77	64.27	4948.79
17	Danger Board in yard.	No.	17	50.00	850.00
18	Concreting ration 1:3:6	Cmt.	20	3027.00	60540.00
19	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
20	Black Bituminus Paint	Ltr.	6	85.00	510.00
21	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
22	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00



23	Sundries	LS	1	810.00	810.00
24	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	559.00	13416.00
Cost of material					769707.89

1	Transportation on material	4.00%	30788
2	T&P on material cost	1.00%	7697
3	Contingencies on material	2.50%	19243
5	Erection cost on material	15.00%	115456
6	Contractor supervision charges on material	5.00%	38485
7	Insurance , Labour & Finance Cost	3.00%	23091
Service Cost			234761
Sub-Total			1004469
8	Turnkey Charges	5.00%	50223

Total **1054692**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	1339446	1054692
Total Cost of the Estimate	1339446	1054692

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Concentering for all poles, struts & stages. (1:4:8)
- 4) 2 strut support considered.

Item Code No. 0806					
Cost data for 22 KV Single circuit Pin type with 100sq.mm AAAC lines on 152x152 mm 11 mtr RSJ poles					
(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 152x152, 11 m long	No.	17	18245.00	310165.00
2	RSJ 116x100, 10 m long	No.	2	10283.00	20566.00
3	MS Channel 100x50x6 mm	Kg.	177	51.80	9168.60
4	M.S.Channel 75x40x6 mm	Kg.	122	51.80	6319.60
5	MS angle 50x50x6 mm	Kg.	72	51.80	3729.60
6	M.S. Flats(50 X 10mm)	Kg.	37	48.50	1794.50
7	22 KV V cross arm with clamp	No.	13.00	906.00	11778.00
8	22 KV Top Fitting	No.	13.00	382.00	4966.00
9	G.I.Nut Bolts	Kg.	90	82.90	7461.00
10	22 kv Pin Insulators with G.I. Pins	No.	39	336.00	13104.00
11	Disc Insulator 11 KV 45 KN	No.	48	244.00	11712.00
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	24	322.00	7728.00
13	AAAC 100 mm2	Rmt	3150	51.82	163233.00
14	Sleeve Joints	No.	3	115.00	345.00
15	H.T.Stay Set	Set	8	598.00	4784.00
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
17	Earthing Sets H.T	Set	17	342.00	5814.00
18	G.I.Barbed Wire 'A' type.	Kg.	77	64.27	4948.79
19	Danger Board in yard.	No.	17	50.00	850.00
20	Concreting ration 1:3:6	Cmt.	20	3027.00	60540.00
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
22	Black Bituminus Paint	Ltr.	6	85.00	510.00
23	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
24	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
25	Sundries	LS	1	810.00	810.00
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	559.00	13416.00
Cost of material					678518.09

1	Transportation on material	4.00%	27141
2	T&P on material cost	1.00%	6785
3	Contingencies on material	2.50%	16963
5	Erection cost on material	15.00%	101778



6	Contractor supervision charges on material	5.00%	33926
7	Insurance , Labour & Finance Cost	3.00%	20356
	Service Cost		206948
	Sub-Total		885466
8	Turnkey Charges	5.00%	44273

Total **929739**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1180757	929739
Total Cost of the Estimate	1180757	929739

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 2 strut support considered.

Item Code No. 0807					
Cost data for 22 KV Single circuit Pin type with 100sq.mm AAAC lines on 100x116 mm 10 mtr RSJ poles					
(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 10 m long	No.	17	10283.00	174811.00
2	RSJ 116x100, 9 m long	No.	2	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg.	177	51.80	9168.60
4	M.S.Channel 75x40x6 mm	Kg.	122	51.80	6319.60
5	MS angle 50x50x6 mm	Kg.	72	51.80	3729.60
6	M.S. Flats(50 X 10mm)	Kg.	37	48.50	1794.50
7	22 KV V cross arm with clamp	No.	13.00	906.00	11778.00
8	22 KV Top Fitting	No.	13.00	382.00	4966.00
9	G.I.Nut Bolts	Kg.	90	82.90	7461.00
10	22 KV Pin Insulators with G.I. Pins	No.	39	336.00	13104.00
11	Disc Insulator 11 KV 45 KN	No.	48	244.00	11712.00
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	24	322.00	7728.00
13	AAAC 100 mm2	Rmt	3150	51.82	163233.00
14	Sleve Joints	No.	3	115.00	345.00
15	H.T.Stay Set	Set	8	598.00	4784.00
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
17	Earthing Sets H.T	Set	17	342.00	5814.00
18	G.I.Barbed Wire 'A' type.	Kg.	77	64.27	4948.79
19	Danger Board in yard.	No.	17	50.00	850.00
20	Concreting ration 1:3:6	Cmt.	20	3027.00	60540.00
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
22	Black Bituminus Paint	Ltr.	6	85.00	510.00
23	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
24	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
25	Sundries	LS	1	810.00	810.00
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	559.00	13416.00
Cost of material					541106.09

1	Transportation on material	4.00%	21644
2	T&P on material cost	1.00%	5411
3	Contingencies on material	2.50%	13528
5	Erection cost on material	15.00%	81166
6	Contractor supervision charges on material	5.00%	27055
7	Insurance , Labour & Finance Cost	3.00%	16233
	Service Cost		165037
	Sub-Total		706143
8	Turnkey Charges	5.00%	35307

Total **741451**

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Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	941633	741451
Total Cost of the Estimate	941633	741451

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Concentering for all poles, struts & stages. (1:4:8)
- 4) 5 strut support considered.

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Item Code No. 0808
Cost data for 22 kV Single Circuit pin type with ACSR Weasel on 9 mtr PSC 200 kg poles

For Wind pressure Zone : 50/75/100 Kg./m2

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	PSC Pole 9 Mtr (200 KG)	No.	18	2260.00	40680.00
2	M.S. Flats(50 X 10mm)	Kg.	39	48.50	1891.50
3	M.S.Channel 75x40x6 mm	Kg.	122	51.80	6319.60
4	MS Channel 100x50x6 mm	Kg.	177	51.80	9168.60
5	22 KV V cross arm with clamp	No.	14.00	906.00	12684.00
6	22 KV Top Fitting	No.	14.00	382.00	5348.00
7	22 kV Pin Insulators with G.I. Pins	No.	42	336.00	14112.00
8	Disc Insulator 11 KV 45 KN	No.	48	244.00	11712.00
9	Strain Hardware forWeasel/Squirrel	Set	24	179.00	4296.00
10	ACSR Weasel	Rmt	3150	18.50	58275.00
11	Sieve Joints	No.	3	115.00	345.00
12	H.T.Stay Set	No.	8	598.00	4784.00
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
14	Earthing Sets H.T	No	18	342.00	6156.00
15	G.I.Barbed Wire 'A' type.	Kg.	30	64.27	1928.10
16	Danger Board in yard.	No.	18	50.00	900.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
18	Concreting ration 1:3:6	No.	10	3027.00	30270.00
19	Black Bituminus Paint	Ltr.	6	85.00	510.00
20	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
21	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
22	Sundries	LS	1	810.00	810.00
23	Wedge connectors				
a)	WEASEL TO WEASEL or equivalent AAAC	No	24	114.00	2736.00

Cost of material

227700.80

1	Transportation on material	4.00%	9108
2	T&P on material cost	1.00%	2277
3	Contingencies on material	2.50%	5693
5	Erection cost on material	15.00%	34155
6	Contractor supervision charges on material	5.00%	11385
7	Insurance , Labour & Finance Cost	3.00%	6831
	Service Cost		69449
	Sub-Total		297150
8	Turnkey Charges	5.00%	14857

Total

312007

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	396245	312007
Total Cost of the Estimate	396245	312007

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Item Code No. 0809
Cost data for 22 kV Single Circuit Express/Highway Crossing with AAAC 100 sqmm conductor on Double 152 X 152 RSJ 13 mtr Poles

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
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1	RSJ 152x152, 13 m long	No.	4	21562.00	86248.00
2	M.S.Channel 75x40x6 mm	Kg.	60	51.80	3108.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
5	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
6	AAAC 100 mm2	m	100	51.82	5182.00
7	22 kV Pin Insulators with G.I. Pins	NO.	6	336.00	2016.00
8	Disc Insulator 11 KV 45 KN	NO.	24	244.00	5856.00
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	322.00	3864.00
10	H.T.Stay Set	No	4	598.00	2392.00
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
12	Earthing Sets H.T	No.	4	342.00	1368.00
13	Danger Board in yard.	No.	4	50.00	200.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
15	G.I.Barbed Wire 'A' type.	kg.	30	64.27	1928.10
16	Concreting ration 1:3:6	CMT.	4	3027.00	12108.00
17	Black Bituminus Paint	Ltr.	2	85.00	170.00
18	Red Oxide Paint for 2 coats	Ltr.	6	85.00	510.00
19	Aluminium Paint for 1 coat	Ltr.	4	113.00	452.00
20	Sundries	L.S.	1	810.00	810.00
21	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	12	559.00	6708.00

Cost of material

143274.95

1	Transportation on material	4.00%	5731
2	T&P on material cost	1.00%	1433
3	Contingencies on material	2.50%	3582
5	Erection cost on material	15.00%	21491
6	Contractor supervision charges on material	5.00%	7164
7	Insurance , Labour & Finance Cost	3.00%	4298
Service Cost			43699
Sub-Total			186974
8	Turnkey Charges	5.00%	9349

Total

196323

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	249327	196323
Total Cost of the Estimate	249327	196323

Item Code No. 0810

Cost data for Road crossing with AAAC 100 sqmm conductor on 100 X 116mm,10 mtr RSJ Poles

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 10 m long	No.	4	10283.00	41132.00
2	M.S.Channel 75x40x6 mm	Kg.	60	51.80	3108.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
5	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
6	AAAC 100 mm2	m	100	51.82	5182.00
7	22 kV Pin Insulators with G.I. Pins	NO.	4	336.00	1344.00
8	Disc Insulator 11 KV 45 KN	NO.	24	244.00	5856.00
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	322.00	3864.00
10	H.T.Stay Set	No	4	598.00	2392.00
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
12	Earthing Sets H.T	No.	4	342.00	1368.00
13	Danger Board in yard.	No.	4	50.00	200.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
15	G.I.Barbed Wire 'A' type.	kg.	30	64.27	1928.10
16	Concreting ration 1:3:6	CMT.	4	3027.00	12108.00
17	Black Bituminus Paint	Ltr.	2	85.00	170.00
18	Red Oxide Paint for 2 coats	Ltr.	6	85.00	510.00
19	Aluminium Paint for 1 coat	Ltr.	4	113.00	452.00
20	Sundries	L.S.	1	810.00	810.00



21	Wedge connectors			0.00	0.00
a)	DOG TO DOG or equivalent AAAC	No	12	559.00	6708.00

Cost of material **97486.95**

1	Transportation on material	5.00%	4874
2	T&P on material cost	1.00%	975
3	Contingencies on material	2.50%	2437
5	Erection cost on material	15.00%	14623
6	Contractor supervision charges on material	5.00%	4874
7	Insurance , Labour & Finance Cost	3.00%	2925

Service Cost **30708**

Sub-Total **128195**

8	Turnkey Charges	5.00%	6410
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Total **134605**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	169647	133581
Total Cost of the Estimate	169647	133581

Item Code No.0811

Cost Data for laying of 1 Km. 22 KV 3 C 95 mm 2 XLPE under ground Cable

Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount
1	XLPE Cable 22 KV, 3 C / 95 mm sq.	Rmt	1000.00	846.00	846000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	RCC Tiles (0.6 x 0.5) Mtrs.	No.	940.00	104.00	97760.00
4	22 KV st. through joints for 3 C / 95 mm sq.	No	2.00	12077.00	24154.00
5	22 KV Termination joint (OD) for 3 C / 95 mm sq.	No.	2.00	7381.00	14762.00
6	Sand	Cmt	250.00	222.00	55500.00
7	Misc. for XLPE U/G Cable	LS	1.00	1050.00	1050.00

Cost of material **1056386.00**

1	Transportation on material	4.00%	42255
2	T&P on material cost	1.00%	10564
3	Contingencies on material	2.50%	26410
5	Erection cost on material	15.00%	158458
6	Contractor supervision charges on material	5.00%	52819
7	Insurance , Labour & Finance Cost	3.00%	31692

Service Cost **322198**

Sub-Total **1378584**

8	Turnkey Charges	5.00%	68929
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Total **1447513**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1838323	1447513
Total Cost of the Estimate	1838323	1447513

Item Code No. 0813

Cost Data for laying of 1 Km. 22 KV 3 C 300 Sqmm XLPE under ground Cable

Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount
1	XLPE Cable 22 KV, 3 C / 300 mm sq.	Rmt	1000.00	1464.00	1464000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	110.00	103400.00
4	22 kV Heat shrik Straight through joint (AI) kit for XLPE 3 C X 300 sqmm	No.	2.00	24600.00	49200.00
5	22 kV Heat shrik Outdoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	2.00	13715.00	27430.00
6	Sand	Cmt	250.00	222.00	55500.00



7	Misc. for XLPE U/G Cable	LS	1.00	1050.00	1050.00
Cost of material					1717740.00
1	Transportation on material		4.00%		68710
2	T&P on material cost		1.00%		17177
3	Contingencies on material		2.50%		42944
5	Erection cost on material		15.00%		257661
6	Contractor supervision charges on material		5.00%		85887
7	Insurance , Labour & Finance Cost		3.00%		51532
Service Cost					523911
Sub-Total					2241651
8	Turnkey Charges		5.00%		112083
Total					2353733

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	2989211	2353733
Total Cost of the Estimate	2989211	2353733

Item Code No. 0814					
22 kV 3 X 300 sqmm XLPE Underground Cable for Railway line crossing as per Sketch					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	21562.00	86248.00
2	M.S.Channel 75x40x6 mm	Kg.	60	51.80	3108.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
5	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
6	22KV A.B.Switch, 400 A	Set	2	14447.00	28894.00
7	22KV H.G.Fuses	Set	2	4467.00	8934.00
8	AAAC 100 mm2	Rmt	100	51.82	5182.00
9	XLPE Cable 22 KV, 3 C / 300 mm sq.	Rmt	160.00	1464.00	234240.00
10	R.C.C. Pipe 150 mm 2 M	No	60.00	572.00	34320.00
11	22 kV Heat shrik Outdoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	4.00	13715.00	54860.00
12	Sand	Cmt	500.00	222.00	111000.00
13	Black Bituminus Paint	Ltr.	2	85.00	170.00
14	Red Oxide Paint for 2 coats	Ltr.	6	85.00	510.00
15	Aluminium Paint for 1 coat	Ltr.	4	113.00	452.00
16	Misc. for XLPE U/G Cable	LS	2.00	1050.00	2100.00
Cost of material					577501.60
1	Transportation on material		4.00%		23100
2	T&P on material cost		1.00%		5775
3	Contingencies on material		2.50%		14438
5	Erection cost on material		15.00%		86625
6	Contractor supervision charges on material		5.00%		28875
7	Insurance , Labour & Finance Cost		3.00%		17325
Service Cost					176138
Sub-Total					753640
8	Turnkey Charges		5.00%		37682
Total					791322

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	1004968	791322
Total Cost of the Estimate	1004968	791322

Item Code No. 0815	
Cost data for RIVER Crossing with 100sqmm conductor on 152 X 152 RSJ 13 mtr H Poles	



S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	21562.00	86248.00
2	M.S.Channel 75x40x6 mm	Kg.	60	51.80	3108.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
5	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
6	AAAC 100 mm2	m	100	51.82	5182.00
7	22 kV Pin Insulators with G.I. Pins	NO.	6	336.00	2016.00
8	Disc Insulator 11 KV 45 KN	NO.	24	244.00	5856.00
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	322.00	3864.00
10	H.T.Stay Set	No	4	598.00	2392.00
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
12	Earthing Sets H.T	No.	4	342.00	1368.00
13	Danger Board in yard.	No.	4	50.00	200.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
15	G.I.Barbed Wire 'A' type.	kg.	30	64.27	1928.10
16	Concreting ration 1:3:6	CMT.	4	3027.00	12108.00
17	Black Bituminus Paint	Ltr.	2	85.00	170.00
18	Red Oxide Paint for 2 coats	Ltr.	6	85.00	510.00
19	Aluminium Paint for 1 coat	Ltr.	4	113.00	452.00
20	Sundries	L.S.	1	810.00	810.00
21	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	12	559.00	6708.00

Cost of material

143274.95

1	Transportation on material	4.00%	5731
2	T&P on material cost	1.00%	1433
3	Contingencies on material	2.50%	3582
5	Erection cost on material	15.00%	21491
6	Contractor supervision charges on material	5.00%	7164
7	Insurance , Labour & Finance Cost	3.00%	4298

Service Cost

43699

Sub-Total

186974

8	Turnkey Charges	5.00%	9349
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Total

196323

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	249327	196323
Total Cost of the Estimate	249327	196323

Item Code No. 0816

COST DATA FOR DOUPLE POLE STRUCTURE(cut point) OF- 22 KV LINE USING13 M LONG RSJ POLE

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	2	21562.00	43124.00
2	M.S. Flats(50 X 10mm)	Kg.	10	48.50	485.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	Kg.	60	51.80	3108.00
5	MS angle 50x50x6 mm	Kg.	50	51.80	2590.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	322.00	1932.00
7	Disc Insulator 11 KV 70 KN	No.	12	344.00	4128.00
8	H.T.Stay Set	No.	2	598.00	1196.00
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	57.45	1436.25
10	Earthing Sets H.T	No	2	342.00	684.00
11	G.I.Wire 8 SWG/ 6 SWG	kg.	6	57.40	344.40
12	G.I.Barbed Wire 'A' type.	kg.	7	64.27	449.89
13	Danger Board in yard.	No.	2	50.00	100.00
14	Black Bituminus Paint	Ltr.	1	85.00	85.00
15	Red Oxide Paint for 2 coats	Ltr.	3	85.00	255.00
16	Aluminium Paint for 1 coat	Ltr.	2	113.00	226.00
17	Concreting ration 1:3:6	Cmt.	2	3027.00	6054.00
18	Sundries	L.S.	1	810.00	810.00

Cost of material

72187.54



1	Transportation on material	4.00%	2888
2	T&P on material cost	1.00%	722
3	Contingencies on material	2.50%	1805
5	Erection cost on material	15.00%	10828
6	Contractor supervision charges on material	5.00%	3609
7	Insurance , Labour & Finance Cost	3.00%	2166
	Service Cost		22017
	Sub-Total		94205
8	Turnkey Charges	5.00%	4710

Total **98915**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	125621	98915
Total Cost of the Estimate	125621	98915

Item Code No. 0817

COST DATA FOR DOUPLE POLE STRUCTURE(cut point) OF- 22 KV LINE USING11 M LONG RSJ POLE

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 11 m long	No.	2	18245.00	36490.00
2	M.S. Flats(50 X 10mm)	Kg.	10	48.50	485.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	Kg.	60	51.80	3108.00
5	MS angle 50x50x6 mm	Kg.	50	51.80	2590.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	322.00	1932.00
7	Disc Insulator 11 KV 70 KN	No.	12	344.00	4128.00
8	H.T.Stay Set	No.	2	598.00	1196.00
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	57.45	1436.25
10	Earthing Sets H.T	No	2	342.00	684.00
11	G.I.Wire 8 SWG/ 6 SWG	kg.	6	57.40	344.40
12	G.I.Barbed Wire `A` type.	kg.	7	64.27	449.89
13	Danger Board in yard.	No.	2	50.00	100.00
14	Black Bituminus Paint	Ltr.	1	85.00	85.00
15	Red Oxide Paint for 2 coats	Ltr.	3	85.00	255.00
16	Aluminium Paint for 1 coat	Ltr.	2	113.00	226.00
17	Concreting ration 1:3:6	Cmt.	2	3027.00	6054.00
18	Sundries	L.S.	1	810.00	810.00

Cost of material **65553.54**

1	Transportation on material	4.00%	2622
2	T&P on material cost	1.00%	656
3	Contingencies on material	2.50%	1639
5	Erection cost on material	15.00%	9833
6	Contractor supervision charges on material	5.00%	3278
7	Insurance , Labour & Finance Cost	3.00%	1967
	Service Cost		19994
	Sub-Total		85547
8	Turnkey Charges	5.00%	4277

Total **89825**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	114076	89825
Total Cost of the Estimate	114076	89825

Item Code No. 0818

COST DATA FOR DOUPLE POLE STRUCTURE(cut point) OF- 22 KV LINE USING11 M LONG RSJ POLE

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
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1	RSJ 116x100, 11 m long	No.	2	11311.00	22622.00
2	M.S. Flats(50 X 10mm)	Kg.	10	48.50	485.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	Kg.	60	51.80	3108.00
5	MS angle 50x50x6 mm	Kg.	50	51.80	2590.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	322.00	1932.00
7	Disc Insulator 11 KV 70 KN	No.	12	344.00	4128.00
8	H.T.Stay Set	No.	2	598.00	1196.00
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	57.45	1436.25
10	Earthing Sets H.T	No	2	342.00	684.00
11	G.I.Wire 8 SWG/ 6 SWG	kg.	6	57.40	344.40
12	G.I.Barbed Wire 'A' type.	kg.	7	64.27	449.89
13	Danger Board in yard.	No.	2	50.00	100.00
14	Black Bituminus Paint	Ltr.	1	85.00	85.00
15	Red Oxide Paint for 2 coats	Ltr.	3	85.00	255.00
16	Aluminium Paint for 1 coat	Ltr.	2	113.00	226.00
17	Concreting ration 1:3:6	Cmt.	2	3027.00	6054.00
18	Sundries	L.S.	1	810.00	810.00

Cost of material

51685.54

1	Transportation on material	4.00%	2067
2	T&P on material cost	1.00%	517
3	Contigencies on material	2.50%	1292
5	Erection cost on material	15.00%	7753
6	Contractor supervision charges on material	5.00%	2584
7	Insurance , Labour & Finance Cost	3.00%	1551

Service Cost

15764

Sub-Total

67450

8	Turnkey Charges	5.00%	3372
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Total

70822

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	89943	70822
Total Cost of the Estimate	89943	70822

Item Code No. 0819

COST DATA FOR SINGLE POLE CUT POINT STRUCTURE FOR 22KV LINE ON RSJ 9 M POLE

S.N.	Description of material	Unit	Qty.	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 9 m long	No.	1	9254.00	9254.00
2	MS angle 50x50x6 mm	Kg.	50	51.80	2590.00
3	MS Channel 100x50x6 mm	Kg.	35	51.80	1813.00
4	M.S.Channel 75x40x6 mm	Kg.	25	51.80	1295.00
5	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	322.00	1932.00
6	Disc Insulator 11 KV 70 KN	No.	12	344.00	4128.00
7	H.T.Stay Set	No.	1	598.00	598.00
8	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	13	57.45	746.85
9	Earthing Sets H.T	No.	1	342.00	342.00
10	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	57.40	114.80
11	G.I.Barbed Wire 'A' type.	Kg.	2	64.27	128.54
12	Danger Board in yard.	No.	1	50.00	50.00
13	Concreting ration 1:3:6	Cmt.	1.5	3027.00	4540.50
14	Black Bituminus Paint	Ltr.	0.5	85.00	42.50
15	Red Oxide Paint for 2 coats	Ltr.	1.5	85.00	127.50
16	Aluminium Paint for 1 coat	Ltr.	1	113.00	113.00
17	Sundries	LS	1	810.00	810.00

Cost of material

28625.69

1	Transportation on material	4.00%	1145
2	T&P on material cost	1.00%	286
3	Contigencies on material	2.50%	716
5	Erection cost on material	15.00%	4294
6	Contractor supervision charges on material	5.00%	1431



7	Insurance , Labour & Finance Cost	3.00%	859
	Service Cost		8731
	Sub-Total		37357
8	Turnkey Charges	5.00%	1868

Total **39224**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	49814	39224
Total Cost of the Estimate	49814	39224

Item Code No. 0820					
COST DATA FOR SINGLE POLE CUT POINT STRUCTURE FOR 22KV LINE ON RSJ 11 M POLE					
S.N.	Description of material	Unit	Qty.	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 11 m long	No.	1	18245.00	18245.00
2	MS angle 50x50x6 mm	Kg.	50	51.80	2590.00
3	MS Channel 100x50x6 mm	Kg.	35	51.80	1813.00
4	M.S.Channel 75x40x6 mm	Kg.	25	51.80	1295.00
5	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	322.00	1932.00
6	Disc Insulator 11 KV 70 KN	No.	12	344.00	4128.00
7	H.T.Stay Set	No.	1	598.00	598.00
8	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	13	57.45	746.85
9	Earthing Sets H.T	No.	1	342.00	342.00
10	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	57.40	114.80
11	G.I.Barbed Wire 'A' type.	Kg.	2	64.27	128.54
12	Danger Board in yard.	No.	1	50.00	50.00
13	Concreting ration 1:3:6	Cmt.	1.5	3027.00	4540.50
14	Black Bituminous Paint	Ltr.	0.5	85.00	42.50
15	Red Oxide Paint for 2 coats	Ltr.	1.5	85.00	127.50
16	Aluminium Paint for 1 coat	Ltr.	1	113.00	113.00
17	Sundries	LS	1	810.00	810.00
Cost of material					37616.69

1	Transportation on material	4.00%	1505
2	T&P on material cost	1.00%	376
3	Contingencies on material	2.50%	940
5	Erection cost on material	15.00%	5643
6	Contractor supervision charges on material	5.00%	1881
7	Insurance , Labour & Finance Cost	3.00%	1129
	Service Cost		11473
	Sub-Total		49090
8	Turnkey Charges	5.00%	2454

Total **51544**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	65461	51544
Total Cost of the Estimate	65461	51544

Item code No. 0821					
COST DATA FOR SINGLE POLE CUT POINT STRUCTURE FOR 22KV LINE ON PSC 9 M POLE					
S.N.	Description of material	Unit	Qty.	RT/U.Rs.	Amt Rs.
1	PSC Pole 9 Mtr (200 KG)	No.	1	2260.00	2260.00
2	MS angle 50x50x6 mm	Kg.	50	51.80	2590.00
3	MS Channel 100x50x6 mm	Kg.	35	51.80	1813.00
4	M.S.Channel 75x40x6 mm	Kg.	25	51.80	1295.00
5	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	322.00	1932.00
6	Disc Insulator 11 KV 70 KN	No.	12	344.00	4128.00
7	H.T.Stay Set	No.	1	598.00	598.00



8	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	13	57.45	746.85
9	Earthing Sets H.T	No.	1	342.00	342.00
10	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	57.40	114.80
11	G.I.Barbed Wire 'A' type.	Kg.	2	64.27	128.54
12	Danger Board in yard.	No.	1	50.00	50.00
13	Concreting ration 1:3:6	Cmt.	1.5	3027.00	4540.50
14	Black Bituminus Paint	Ltr.	0.5	85.00	42.50
15	Red Oxide Paint for 2 coats	Ltr.	1.5	85.00	127.50
16	Aluminium Paint for 1 coat	Ltr.	1	113.00	113.00
17	Sundries	LS	1	810.00	810.00

Cost of material

21631.69

1	Transportation on material	4.00%	865
2	T&P on material cost	1.00%	216
3	Contingencies on material	2.50%	541
5	Erection cost on material	15.00%	3245
6	Contractor supervision charges on material	5.00%	1082
7	Insurance , Labour & Finance Cost	3.00%	649

Service Cost

6598

Sub-Total

28229

8	Turnkey Charges	5.00%	1411
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Total

29641

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	37643	29641
Total Cost of the Estimate	37643	29641

Item Code No. 0822					
Cost data for 22 KV Single circuit suspension type with 232sq.mm AAAC lines on 152x152 mm 13 mtr RSJ poles					
(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 152x152, 13 m long	No.	17	21562.00	366554.00
2	RSJ 116x100, 11 m long	No.	2	11311.00	22622.00
3	G.I.Channel 100x50x6mm	Kg.	607	70.08	42538.56
4	G.I.Channel 75x40x6mm	Kg.	122	70.08	8549.76
5	G.I.Angle 50x50x6mm	Kg.	248	70.08	17379.84
6	G.I Flat 50x10 mm	Kg.	107	66.78	7145.46
7	G.I.Nut Bolts	Kg.	90	82.90	7461.00
8	22 KV Pin Insulators with G.I. Pins	No.	3	336.00	1008.00
9	Disc Insulator 11 KV 45 KN	No.	126	244.00	30744.00
10	Suspension Hardware for 0.2 ACSR or equivalent AAAC	No.	39.00	339.00	13221.00
11	Strain Hardware for AAAC232 sq.mm.	No.	24.00	603.00	14472.00
12	AAAC 232 mm2	Rmt	3100	127.40	394940.00
13	Jointing Sleeves for Conductor.	No.	3	37.00	111.00
14	H.T.Stay Set	Set	11	598.00	6578.00
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
16	Earthing Sets H.T	Set	18	342.00	6156.00
17	G.I.Barbed Wire 'A' type.	Kg.	77	64.27	4948.79
18	Danger Board in yard.	No.	18	50.00	900.00
19	Concreting ration 1:3:6	Cmt.	20	3027.00	60540.00
20	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
21	Black Bituminus Paint	Ltr.	7	85.00	595.00
22	Red Oxide Paint for 2 coats	Ltr.	23	85.00	1955.00
23	Aluminium Paint for 1 coat	Ltr.	12	113.00	1356.00
24	Sundries	LS	1	810.00	810.00
25	Wedge connectors				
	PANTHER TO PANTHER or equivalent AAAC	No	24	718.00	17232.00

Cost of material

1022643.41

1	Transportation on material	4.00%	40906
2	T&P on material cost	1.00%	10226
3	Contingencies on material	2.50%	25566



5	Erection cost on material	15.00%	153397
6	Contractor supervision charges on material	5.00%	51132
7	Insurance , Labour & Finance Cost	3.00%	30679
	Service Cost		311906
	Sub-Total		1334550
8	Turnkey Charges	5.00%	66727

Total

1401277

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1779604	1401277
Total Cost of the Estimate	1779604	1401277

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 5 strut support considered.

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Item Code No. 0823					
Single Circuit Pin type with 232sq.mm AAAC lines on 152x152 mm 13 mtr RSJ poles					
(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 152x152, 13 m long	No.	17	21562.00	366554.00
2	RSJ 152x152, 12 m long	No.	2	19903.00	39806.00
3	MS Channel 100x50x6 mm	Kg.	177	51.80	9168.60
4	M.S.Channel 75x40x6 mm	Kg.	122	51.80	6319.60
5	22 KV V cross arm with clamp	No.	13	906.00	11778.00
6	22 KV Top Fitting	No.	13	382.00	4966.00
7	MS angle 50x50x6 mm	Kg.	72	51.80	3729.60
8	M.S. Flats(50 X 10mm)	Kg.	37	48.50	1794.50
9	G.I.Nut Bolts	Kg.	90	82.90	7461.00
10	22 kV Pin Insulators with G.I. Pins	No.	39	336.00	13104.00
11	Disc Insulator 11 KV 45 KN	No.	48	244.00	11712.00
12	Strain Hardware for AAAC232 sq.mm.	Set	24	603.00	14472.00
13	AAAC 232 mm2	Rmt	3150	127.40	401310.00
14	Sieve Joints	No.	3	115.00	345.00
15	H.T.Stay Set	Set	8	598.00	4784.00
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
17	Earthing Sets H.T	Set	17	342.00	5814.00
18	G.I.Barbed Wire 'A' type.	Kg.	77	64.27	4948.79
19	Danger Board in yard.	No.	17	50.00	850.00
20	Concreting ration 1:3:6	Cmt.	20	3027.00	60540.00
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
22	Black Bituminus Paint	Ltr.	6	85.00	510.00
23	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
24	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
25	Sundries	LS	1	810.00	810.00
26	Wedge connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	No	24	718.00	17232.00

Cost of material

1002784.09

1	Transportation on material	4.00%	40111
2	T&P on material cost	1.00%	10028
3	Contigencies on material	2.50%	25070
5	Erection cost on material	15.00%	150418
6	Contractor supervision charges on material	5.00%	50139
7	Insurance , Labour & Finance Cost	3.00%	30084
	Service Cost		305849
	Sub-Total		1308633
8	Turnkey Charges	5.00%	65432

Total

1374065

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Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	1745045	1374065
Total Cost of the Estimate	1745045	1374065

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Concentering for all poles, struts & stages. (1:4:8)
- 4) 5 strut support considered.

Item Code No. 0824					
Single Circuit Express/Highway Crossing with AAAC 232 sqmm conductor on Double 152 X 152 RSJ 13 mtr Poles					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	21562.00	86248.00
2	M.S.Channel 75x40x6 mm	Kg.	60	51.80	3108.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
5	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
6	AAAC 232 mm2	m	100	127.40	12740.00
7	22 kV Pin Insulators with G.I. Pins	NO.	6	336.00	2016.00
8	Disc Insulator 11 KV 45 KN	NO.	24	244.00	5856.00
9	Strain Hardware for AAAC232 sq.mm.	No.	12	603.00	7236.00
10	H.T.Stay Set	No	4	598.00	2392.00
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
12	Earthing Sets H.T	No.	4	342.00	1368.00
13	Danger Board in yard.	No.	4	50.00	200.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
15	G.I.Barbed Wire 'A' type.	kg.	30	64.27	1928.10
16	Concreting ration 1:3:6	CMT.	4	3027.00	12108.00
17	Black Bituminus Paint	Ltr.	2	85.00	170.00
18	Red Oxide Paint for 2 coats	Ltr.	6	85.00	510.00
19	Aluminium Paint for 1 coat	Ltr.	4	113.00	452.00
20	Sundries	L.S.	1	810.00	810.00
21	Wedge connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	No	12	718.00	8616.00

Cost of material

156112.95

1	Transportation on material	4.00%	6245
2	T&P on material cost	1.00%	1561
3	Contigencies on material	2.50%	3903
5	Erection cost on material	15.00%	23417
6	Contractor supervision charges on material	5.00%	7806
7	Insurance , Labour & Finance Cost	3.00%	4683
	Service Cost		47614
	Sub-Total		203727
8	Turnkey Charges	5.00%	10186

Total

213914

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	271668	213914
Total Cost of the Estimate	271668	213914

Item Code No. 0825					
Road crossing with AAAC 232 sqmm conductor on 152 X 152mm,13 mtr RSJ Poles					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	21562.00	86248.00
2	M.S.Channel 75x40x6 mm	Kg.	60	51.80	3108.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	MS angle 50x50x6 mm	kg.	22	51.80	1139.60



5	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
6	AAAC 232 mm2	m	100	127.40	12740.00
7	22 kV Pin Insulators with G.I. Pins	NO.	4	336.00	1344.00
8	Disc Insulator 11 KV 45 KN	NO.	24	244.00	5856.00
9	Strain Hardware for AAAC232 sq.mm.	No.	12	603.00	7236.00
10	H.T.Stay Set	No	4	598.00	2392.00
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
12	Earthing Sets H.T	No.	4	342.00	1368.00
13	Danger Board in yard.	No.	4	50.00	200.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
15	G.I.Barbed Wire `A` type.	kg.	30	64.27	1928.10
16	Concreting ration 1:3:6	CMT.	4	3027.00	12108.00
17	Black Bituminus Paint	Ltr.	2	85.00	170.00
18	Red Oxide Paint for 2 coats	Ltr.	6	85.00	510.00
19	Aluminium Paint for 1 coat	Ltr.	4	113.00	452.00
20	Sundries	L.S.	1	810.00	810.00
21	Wedge connectors			0.00	0.00
a)	PANTHER TO PANTHER or equivalent AAAC	No	12	718.00	8616.00

Cost of material **155440.95**

1	Transportation on material	4.00%	6218
2	T&P on material cost	1.00%	1554
3	Contingencies on material	2.50%	3886
5	Erection cost on material	15.00%	23316
6	Contractor supervision charges on material	5.00%	7772
7	Insurance , Labour & Finance Cost	3.00%	4663

Service Cost **47409**

Sub-Total **202850**

8	Turnkey Charges	5.00%	10143
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Total **212993**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	270498	212993
Total Cost of the Estimate	270498	212993

Item Code No. 0826

Cost Data for Supply, Erection, Testing & Commissioning of HT Pillar

Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount
1	HT Pillar 22 KV	No.	1.00	69145.00	69145.00

Cost of material **69145.00**

1	Transportation on material	4.00%	2766
2	T&P on material cost	1.00%	691
3	Contingencies on material	2.50%	1729
5	Erection cost on material	15.00%	10372
6	Contractor supervision charges on material	5.00%	3457
7	Insurance , Labour & Finance Cost	3.00%	2074

Service Cost **21089**

Sub-Total **90234**

8	Turnkey Charges	5.00%	4512
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Total **94746**

9	HT Pillar Foundation		1.00	12554.93	12555
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Total Cost of Estimate **107301**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	120326	94746
HT Pillar Foundation	15962	12555
Total Cost of the Estimate	136289	107301



Item Code No. 0827

Cost Data for Supply, Erection, Testing & Commissioning of HT Cable Joint Chamber

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	HT Cable Joint Chamber (Civil)	No.	1.00	1149.00	1149.00
Cost of material					1149.00
1	Transportation on material		4.00%		46
2	T&P on material cost		1.00%		11
3	Contingencies on material		2.50%		29
5	Erection cost on material		15.00%		172
6	Contractor supervision charges on material		5.00%		57
7	Insurance , Labour & Finance Cost		3.00%		34
Service Cost					350
Sub-Total					1499
8	Turnkey Charges		5.00%		75
Total					1574

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1999	1574
Total Cost of the Estimate	1999	1574

Item Code No.830

Pin type, 22 KV, AAAC 55 mm². conductor on 116 X 100 mm,9 mtr long RSJ Poles

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 9 m long	No.	15	9254.00	138810.00
2	RSJ 116x100, 8 m long	No.	2	8226.00	16452.00
3	MS Channel 100x50x6 mm	Kg.	177	51.80	9168.60
4	M.S.Channel 75x40x6 mm	Kg.	122	51.80	6319.60
5	MS angle 50x50x6 mm	Kg.	72	51.80	3729.60
6	22 KV V cross arm with clamp	No.	11	906.00	9966.00
7	22 KV Top Fitting	No.	11	382.00	4202.00
8	M.S. Flats(50 X 10mm)	Kg.	34	48.50	1649.00
9	G.I.Nut Bolts	Kg.	80	82.90	6632.00
10	22 KV Pin Insulators with G.I. Pins	No.	33	336.00	11088.00
11	Disc Insulator 11 KV 45 KN	No.	48	244.00	11712.00
12	Strain Hardware for Weasel/Squirrel	Set	24	179.00	4296.00
13	AAAC 55 mm ²	Rmt	3150	28.56	89964.00
14	H.T.Stay Set	Set	8	598.00	4784.00
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
16	Earthing Sets H.T	Set	15	342.00	5130.00
17	G.I.Barbed Wire 'A' type.	Kg.	66	64.27	4241.82
18	Danger Board in yard.	No.	15	50.00	750.00
19	Black Bituminous Paint	Ltr.	6	85.00	510.00
20	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
21	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
22	Concreting ration 1:3:6	Cmt.	17.5	3027.00	52972.50
23	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
24	Sundries	LS	1	810.00	810.00
25	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.00	2736.00
Cost of material					400698.12

1	Transportation on material	4.00%	16028
2	T&P on material cost	1.00%	4007
3	Contingencies on material	2.50%	10017
5	Erection cost on material	15.00%	60105
6	Contractor supervision charges on material	5.00%	20035
7	Insurance , Labour & Finance Cost	3.00%	12021
Service Cost			122213
Sub-Total			522911



8 Turnkey Charges

5.00%

26146

Total

549057

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
	Cost with overheads on Material	697295
Total Cost of the Estimate	697295	549057

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) 2- line deviations upto 60°
- 3) 2 Strut support
- 4) 5 Spans carpet guarding.
- 5) Average span lengthe - 70 mtrs.
- 6) Conceriting for all poles, struts & stages. (1:4:8)

Item Code No.831					
Pin type, 22 KV, AAAC 55 mm ² . conductor on 116 X 100 mm,11 mtr long RSJ Poles					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 11 m long	No.	15	11311.00	169665.00
2	RSJ 116x100, 10 m long	No.	2	10283.00	20566.00
3	MS Channel 100x50x6 mm	Kg.	177	51.80	9168.60
4	M.S.Channel 75x40x6 mm	Kg.	122	51.80	6319.60
5	MS angle 50x50x6 mm	Kg.	72	51.80	3729.60
6	M.S. Flats(50 X 10mm)	Kg.	34	48.50	1649.00
7	22 KV V cross arm with clamp	No.	11	906.00	9966.00
8	22 KV Top Fitting	No.	11	382.00	4202.00
9	G.I.Nut Bolts	Kg.	80	82.90	6632.00
10	22 kV Pin Insulators with G.I. Pins	No.	33	336.00	11088.00
11	Disc Insulator 11 KV 45 KN	No.	48	244.00	11712.00
12	Strain Hardware forWeasel/Squirrel	Set	24	179.00	4296.00
13	AAAC 55 mm ²	Rmt	3150	28.56	89964.00
14	H.T.Stay Set	Set	8	598.00	4784.00
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
16	Earthing Sets H.T	Set	15	342.00	5130.00
17	G.I.Barbed Wire 'A' type.	Kg.	66	64.27	4241.82
18	Danger Board in yard.	No.	15	50.00	750.00
19	Black Bituminus Paint	Ltr.	6	85.00	510.00
20	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
21	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
22	Concreting ration 1:3:6	Cmt.	17.5	3027.00	52972.50
23	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
24	Sundries	LS	1	810.00	810.00
25	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.00	2736.00

Cost of material

435667.12

1	Transportation on material	4.00%	17427
2	T&P on material cost	1.00%	4357
3	Contigencies on material	2.50%	10892
5	Erection cost on material	15.00%	65350
6	Contractor supervision charges on material	5.00%	21783
7	Insurance , Labour & Finance Cost	3.00%	13070
	Service Cost		132878
	Sub-Total		568546
8	Turnkey Charges	5.00%	28427

Total

596973

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
	Cost with overheads on Material	758148



Total Cost of the Estimate	758148	596973
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Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) 2- line deviations upto 60°
- 3) 2 Strut support
- 4) 5 Spans carpet guarding.
- 5) Average span lengthe - 70 mtrs.
- 6) Conceriting for all poles, struts & stages. (1:4:8)

Item Code No.832					
Pin type, 22 KV, ACSR Weasel conductor on 116 X 100 mm,9 mtr long RSJ Poles					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 9 m long	No.	15	9254.00	138810.00
2	RSJ 116x100, 8 m long	No.	2	8226.00	16452.00
3	MS Channel 100x50x6 mm	Kg.	177	51.80	9168.60
4	M.S.Channel 75x40x6 mm	Kg.	122	51.80	6319.60
5	MS angle 50x50x6 mm	Kg.	72	51.80	3729.60
6	M.S. Flats(50 X 10mm)	Kg.	34	48.50	1649.00
7	22 KV V cross arm with clamp	No.	11	906.00	9966.00
8	22 KV Top Fitting	No.	11	382.00	4202.00
9	G.I.Nut Bolts	Kg.	80	82.90	6632.00
10	22 kV Pin Insulators with G.I. Pins	No.	33	336.00	11088.00
11	Disc Insulator 11 KV 45 KN	No.	48	244.00	11712.00
12	Strain Hardware forWeasel/Squirrel	Set	24	179.00	4296.00
13	ACSR Weasel	Rmt	3150	18.50	58275.00
14	H.T.Stay Set	Set	8	598.00	4784.00
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
16	Earthing Sets H.T	Set	15	342.00	5130.00
17	G.I.Barbed Wire 'A' type.	Kg.	66	64.27	4241.82
18	Danger Board in yard.	No.	15	50.00	750.00
19	Black Bituminus Paint	Ltr.	6	85.00	510.00
20	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
21	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
22	Concreting ration 1:3:6	Cmt.	17.5	3027.00	52972.50
23	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
24	Sundries	LS	1	810.00	810.00
25	Wedge connectors				
a)	WEASEL TO WEASEL or equivalent AAC	No	24	114.00	2736.00

Cost of material **369009.12**

1	Transportation on material	4.00%	14760
2	T&P on material cost	1.00%	3690
3	Contingencies on material	2.50%	9225
5	Erection cost on material	15.00%	55351
6	Contractor supervision charges on material	5.00%	18450
7	Insurance , Labour & Finance Cost	3.00%	11070
	Service Cost		112548
	Sub-Total		481557
8	Turnkey Charges	5.00%	24078

Total **505635**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	642150	505635
Total Cost of the Estimate	642150	505635

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) 2- line deviations upto 60°
- 3) 2 Strut support
- 4) 5 Spans carpet guarding.
- 5) Average span lengthe - 70 mtrs.
- 6) Conceriting for all poles, struts & stages. (1:4:8)



Item Code No. 0901					
11 KV Pin type line with ACSR weasel Conductor & 200 Kg PSC Poles					
Wind Pressure Zone: 50/75/100 Kg./m2					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	PSC Pole 9 Mtr (200 KG)	No.	18	2260.00	40680.00
2	M.S. Flats(50 X 10mm)	Kg.	39	48.50	1891.50
3	11 KV V cross arm with clamp	No.	12	639.00	7668.00
4	11 KV Top fitting with clamp	No.	12	91.00	1092.00
5	M.S.Channel 75x40x6 mm	Kg.	122	51.80	6319.60
6	11 kv guarding channel MS 75x40	Kg.	104	51.80	5387.20
7	Disc Insulator 11 KV 70 KN	No.	24	344.00	8256.00
8	11 kV Pin Insulators with G.I. Pins	No.	42	135.00	5670.00
9	ACSR Weasel	Rmt	3150	18.50	58275.00
10	Strain Hardware forWeasel/Squirrel	Set	24	179.00	4296.00
11	Sleeve Joints	No.	3	115.00	345.00
12	H.T.Stay Set	No.	8	598.00	4784.00
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
14	Earthing Sets H.T	No	18	342.00	6156.00
15	G.I.Barbed Wire 'A' type.	Kg.	30	64.27	1928.10
16	Danger Board in yard.	No.	18	50.00	900.00
17	Black Bituminus Paint	Ltr.	6	85.00	510.00
18	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
19	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
20	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
21	Concreting ration 1:3:6	LS	1	3027.00	3027.00
22	Sundries	LS	2	810.00	1620.00
23	Wedge connectors				
a)	WEASEL TO WEASEL or equivalent AAC	No	24	114.00	2736.00

Cost of material **176316.40**

1	Transportation on material	4.00%	7053
2	T&P on material cost	1.00%	1763
3	Contingencies on material	2.50%	4408
5	Erection cost on material	15.00%	26447
6	Contractor supervision charges on material	5.00%	8816
7	Insurance , Labour & Finance Cost	3.00%	5289

Service Cost **53777**

Sub-Total **230093**

8	Turnkey Charges	5.00%	11505
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Total **241598**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	306826	241598
Total Cost of the Estimate	306826	241598

Item Code No.0903					
Cost data for 1.0 Km. pin type 11 KV line in town with ACSR Weasel conductor on RSJ Pole.					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 11 m long	No.	17	11311.00	192287.00
2	RSJ 116x100, 9 m long	No.	2	9254.00	18508.00
3	11 kv guarding channel MS 75x40	Kg.	104	51.80	5387.20
4	M.S.Channel 75x40x6 mm	Kg.	122	51.80	6319.60
5	MS angle 50x50x6 mm	Kg.	72	51.80	3729.60
6	M.S. Flats(50 X 10mm)	Kg.	37	48.50	1794.50
7	11 KV V cross arm with clamp	No.	13	639.00	8307.00
8	11 KV Top fitting with clamp	No.	13	91.00	1183.00
9	11 kV Pin Insulators with G.I. Pins	No.	39	135.00	5265.00
10	Disc Insulator 11 KV 70 KN	No.	24	344.00	8256.00
11	Strain Hardware for 34 Sq.mm AAC	Set	24	140.00	3360.00



12	ACSR Weasel	Rmt	3150	18.50	58275.00
13	H.T.Stay Set	Set	8	598.00	4784.00
14	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
15	Earthing Sets H.T	Set	17	342.00	5814.00
16	G.I.Barbed Wire 'A' type.	Kg.	66	64.27	4241.82
17	Danger Board in yard.	No.	17	50.00	850.00
18	Black Bituminus Paint	Ltr.	6	85.00	510.00
19	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
20	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
21	Concreting ration 1:3:6	Cmt.	17	3027.00	51459.00
22	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
23	G.I.Nut Bolts	Kg.	80	82.90	6632.00
24	Wedge connectors				
a)	WEASEL TO WEASEL or equivalent AAAC	No	24	114.00	2736.00
Cost of material					404473.72

1	Transportation on material	4.00%	16179
2	T&P on material cost	1.00%	4045
3	Contingencies on material	2.50%	10112
5	Erection cost on material	15.00%	60671
6	Contractor supervision charges on material	5.00%	20224
7	Insurance , Labour & Finance Cost	3.00%	12134
Service Cost			123364
Sub-Total			527838
8	Turnkey Charges	5.00%	26392

Total

554230

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	703865	554230
Total Cost of the Estimate	703865	554230

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) 2- line deviations upto 60 *
- 3) 2 Strut support
- 4) Average span lengthe - 60 mtrs.
- 5) Conceriting for all poles, struts & stages. (1:4:8)

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Item Code No. 0905

Cost data for 11 KV Single circuit Pin type with 100sq.mm AAAC lines on 152x152 mm 11 mtr RSJ poles

(A) HT Line :

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 152x152, 11 m long	No.	17	18245.00	310165.00
2	RSJ 116x100, 10 m long	No.	2	10283.00	20566.00
3	11 kv guarding channel MS 75x40	Kg.	104	51.80	5387.20
4	M.S.Channel 75x40x6 mm	Kg.	122	51.80	6319.60
5	11 KV V cross arm with clamp	No.	13	639.00	8307.00
6	11 KV Top fitting with clamp	No.	13	91.00	1183.00
7	MS angle 50x50x6 mm	Kg.	72	51.80	3729.60
8	M.S. Flats(50 X 10mm)	Kg.	37	48.50	1794.50
9	G.I.Nut Bolts	Kg.	90	82.90	7461.00
10	11 kv Pin Insulators with G.I. Pins	No.	39	135.00	5265.00
11	Disc Insulator 11 KV 70 KN	No.	24	344.00	8256.00
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	24	322.00	7728.00
13	AAAC 100 mm2	Rmt	3150	51.82	163233.00
14	Sleeve Joints	No.	3	115.00	345.00
15	H.T.Stay Set	Set	8	598.00	4784.00
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
17	Earthing Sets H.T	Set	17	342.00	5814.00
18	G.I.Barbed Wire 'A' type.	Kg.	71	64.27	4563.17
19	Danger Board in yard.	No.	17	50.00	850.00
20	Concreting ration 1:3:6	Cmt.	18	3027.00	54486.00



21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
22	Black Bituminus Paint	Ltr.	6	85.00	510.00
23	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
24	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
25	Sundries	LS	1	810.00	810.00
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	559.00	13416.00

Cost of material

649748.07

1	Transportation on material	4.00%	25990
2	T&P on material cost	1.00%	6497
3	Contingencies on material	2.50%	16244
5	Erection cost on material	15.00%	97462
6	Contractor supervision charges on material	5.00%	32487
7	Insurance , Labour & Finance Cost	3.00%	19492

Service Cost

198173

Sub-Total

847921

8	Turnkey Charges	5.00%	42396
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Total

890317

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1130692	890317
Total Cost of the Estimate	1130692	890317

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 4 strut support considered.

Item Code No. 0906

Cost data for 11 KV Single circuit Pin type with 100sq.mm AAAC lines on 100x116 mm 10 mtr RSJ poles

(A) HT Line :

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 10 m long	No.	17	10283.00	174811.00
2	RSJ 116x100, 9 m long	No.	2	9254.00	18508.00
3	11 kv guarding channel MS 75x40	Kg.	104	51.80	5387.20
4	M.S.Channel 75x40x6 mm	Kg.	122	51.80	6319.60
5	MS angle 50x50x6 mm	Kg.	72	51.80	3729.60
6	M.S. Flats(50 X 10mm)	Kg.	37	48.50	1794.50
7	11 KV V cross arm with clamp	No.	13	639.00	8307.00
8	11 KV Top fitting with clamp	No.	13	91.00	1183.00
9	G.I.Nut Bolts	Kg.	90	82.90	7461.00
10	11 kV Pin Insulators with G.I. Pins	No.	39	135.00	5265.00
11	Disc Insulator 11 KV 70 KN	No.	24	344.00	8256.00
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	24	322.00	7728.00
13	AAAC 100 mm2	Rmt	3150	51.82	163233.00
14	Sleve Joints	No.	3	115.00	345.00
15	H.T.Stay Set	Set	8	598.00	4784.00
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
17	Earthing Sets H.T	Set	17	342.00	5814.00
18	G.I.Barbed Wire 'A' type.	Kg.	77	64.27	4948.79
19	Danger Board in yard.	No.	17	50.00	850.00
20	Concreting ration 1:3:6	Cmt.	20	3027.00	60540.00
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
22	Black Bituminus Paint	Ltr.	6	85.00	510.00
23	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
24	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
25	Sundries	LS	1	810.00	810.00
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	559.00	13416.00

Cost of material

518775.69



1	Transportation on material	4.00%	20751
2	T&P on material cost	1.00%	5188
3	Contingencies on material	2.50%	12969
5	Erection cost on material	15.00%	77816
6	Contractor supervision charges on material	5.00%	25939
7	Insurance , Labour & Finance Cost	3.00%	15563
	Service Cost		158227
	Sub-Total		677002
8	Turnkey Charges	5.00%	33850

Total **710852**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	902773	710852
Total Cost of the Estimate	902773	710852

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Concentering for all poles, struts & stages. (1:4:8)
- 4) 2strut support considered.

Item Code No. 0907					
Cost data for 11 KV Single circuit Pin type with 55sq.mm AAAC lines on 100x116 mm 9 mtr RSJ poles					
(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 9 m long	No.	17	9254.00	157318.00
2	RSJ 116x100, 8 m long	No.	2	8226.00	16452.00
3	11 kv guarding channel MS 75x40	Kg.	104	51.80	5387.20
4	M.S.Channel 75x40x6 mm	Kg.	122	51.80	6319.60
5	MS angle 50x50x6 mm	Kg.	72	51.80	3729.60
6	M.S. Flats(50 X 10mm)	Kg.	37	48.50	1794.50
7	11 KV V cross arm with clamp	No.	13	639.00	8307.00
8	11 KV Top fitting with clamp	No.	13	91.00	1183.00
9	G.I.Nut Bolts	Kg.	90	82.90	7461.00
10	11 kv Pin Insulators with G.I. Pins	No.	39	135.00	5265.00
11	Disc Insulator 11 KV 70 KN	No.	24	344.00	8256.00
12	Strain Hardware for 55 Sq.mm AAAC	Set	24	140.00	3360.00
13	AAAC 55 mm ²	Rmt	3150	28.56	89964.00
14	Sieve Joints	No.	3	115.00	345.00
15	H.T.Stay Set	Set	8	598.00	4784.00
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
17	Earthing Sets H.T	Set	17	342.00	5814.00
18	G.I.Barbed Wire 'A' type.	Kg.	71	64.27	4563.17
19	Danger Board in yard.	No.	17	50.00	850.00
20	Concreting ration 1:3:6	Cmt.	18	3027.00	54486.00
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
22	Black Bituminus Paint	Ltr.	6	85.00	510.00
23	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
24	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
25	Sundries	LS	1	810.00	810.00
26	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.00	2736.00

Cost of material **404470.07**

1	Transportation on material	4.00%	16179
2	T&P on material cost	1.00%	4045
3	Contingencies on material	2.50%	10112
5	Erection cost on material	15.00%	60671
6	Contractor supervision charges on material	5.00%	20224
7	Insurance , Labour & Finance Cost	3.00%	12134
	Service Cost		123363
	Sub-Total		527833



8 Turnkey Charges

5.00%

26392

Total

554225

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
	Cost with overheads on Material	703859
Total Cost of the Estimate	703859	554225

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 4 strut support considered.

Item Code No. 0908

Cost data for 11 KV Single circuit Pin type with 55sq.mm AAAC lines on 100x116 mm 9 mtr PSC poles

(A) HT Line :

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	PSC Pole 9 Mtr (200 KG)	No.	18	2260.00	40680.00
2	11 kv guarding channel MS 75x40	Kg.	104	51.80	5387.20
3	M.S.Channel 75x40x6 mm	Kg.	122	51.80	6319.60
4	MS angle 50x50x6 mm	Kg.	72	51.80	3729.60
5	11 KV V cross arm with clamp	No.	12	639.00	7668.00
6	11 KV Top fitting with clamp	No.	12	91.00	1092.00
7	M.S. Flats(50 X 10mm)	Kg.	39	48.50	1891.50
8	11 kv Pin Insulators with G.I. Pins	No.	42	135.00	5670.00
9	Disc Insulator 11 KV 70 KN	No.	24	344.00	8256.00
10	Strain Hardware for 55 Sq.mm AAAC	Set	24	140.00	3360.00
11	AAAC 55 mm2	Rmt mm2	3150	28.56	89964.00
12	Sleve Joints	No.	3	115.00	345.00
13	H.T.Stay Set	Set	8	598.00	4784.00
14	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
15	Earthing Sets H.T	Set	18	342.00	6156.00
16	G.I.Barbed Wire 'A' type.	Kg.	71	64.27	4563.17
17	Danger Board in yard.	No.	18	50.00	900.00
18	Concreting ration 1:3:6	Cmt.	18	3027.00	54486.00
19	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
20	Black Bituminus Paint	Ltr.	6	85.00	510.00
21	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
22	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
23	G.I.Nut Bolts	Kg.	90	82.90	7461.00
24	Sundries	LS	1	810.00	810.00
25	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.00	2736.00

Cost of material

271544.07

1	Transportation on material	4.00%	10862
2	T&P on material cost	1.00%	2715
3	Contingencies on material	2.50%	6789
5	Erection cost on material	15.00%	40732
6	Contractor supervision charges on material	5.00%	13577
7	Insurance , Labour & Finance Cost	3.00%	8146
	Service Cost		82821
	Sub-Total		354365
8	Turnkey Charges	5.00%	17718

Total

372083

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
	Cost with overheads on Material	472541
Total Cost of the Estimate	472541	372083



Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)

Item Code No. 0909					
Cost for 1.0 Km. Suspension type 11 KV line (for feeder) with AAAC 100 sqmm and RSJ 100 X 116 mm - 11 mtr. Long.					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 11 m long	No.	17	11311.00	192287.00
2	RSJ 116x100, 10 m long	No.	2	10283.00	20566.00
3	M.S.Channel 75x40x6 mm	Kg.	524	51.80	27143.20
4	MS angle 50x50x6 mm	Kg.	248	51.80	12846.40
5	M.S. Flats(50 X 10mm)	Kg.	107	48.50	5189.50
6	Disc Insulator 11 KV 70 KN	No.	63	344.00	21672.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	24	322.00	7728.00
8	SSN Hardware for 0.1 Dog or AAAC 100 Sq.mm	Set	39	225.00	8775.00
9	AAAC 100 mm2	Rmt	3150	51.82	163233.00
10	Sleve Joints	No.	3	115.00	345.00
11	H.T.Stay Set	Set	8	598.00	4784.00
12	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
13	Earthing Sets H.T	Set	17	342.00	5814.00
14	G.I.Barbed Wire 'A' type.	Kg.	71	64.27	4563.17
15	Danger Board in yard.	No.	17	50.00	850.00
16	Concreting ration 1:3:6	Cmt.	18	3027.00	54486.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
18	Black Bituminus Paint	Ltr.	6	85.00	510.00
19	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
20	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
21	G.I.Nut Bolts	Kg.	90	82.90	7461.00
22	Sundries	LS	1	810.00	810.00
23	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	559.00	13416.00
Cost of material					567254.27

1	Transportation on material	4.00%	22690
2	T&P on material cost	1.00%	5673
3	Contingencies on material	2.50%	14181
5	Erection cost on material	15.00%	85088
6	Contractor supervision charges on material	5.00%	28363
7	Insurance , Labour & Finance Cost	3.00%	17018
Service Cost			173013
Sub-Total			740267
8	Turnkey Charges	5.00%	37013

Total **777280**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	987136	777280
Total Cost of the Estimate	987136	777280

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 4 strut support considered.

Item Code No. 0910					
Cost data for 11 KV Single circuit Suspension type with 55sq.mm AAAC lines on 100x116 mm 11 mtr RSJ poles					
(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 11 m long	No.	17	11311.00	192287.00
2	RSJ 116x100, 10 m long	No.	2	10283.00	20566.00
3	M.S.Channel 75x40x6 mm	Kg.	524	51.80	27143.20



4	MS angle 50x50x6 mm	Kg.	248	51.80	12846.40
5	M.S. Flats(50 X 10mm)	Kg.	107	48.50	5189.50
6	Disc Insulator 11 KV 70 KN	No.	63	344.00	21672.00
7	Strain Hardware for 55 Sq.mm AAAC	Set	24	140.00	3360.00
8	Suspension Hardware for 55 sq mm Condr.	No.	39.00	150.00	5850.00
9	AAAC 55 mm2	Rmt	3150	28.56	89964.00
10	Sieve Joints	No.	3	115.00	345.00
11	H.T.Stay Set	Set	8	598.00	4784.00
12	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
13	Earthing Sets H.T	Set	17	342.00	5814.00
14	G.I.Barbed Wire 'A' type.	Kg.	71	64.27	4563.17
15	Danger Board in yard.	No.	17	50.00	850.00
16	Concreting ration 1:3:6	Cmt.	18	3027.00	54486.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
18	Black Bituminus Paint	Ltr.	6	85.00	510.00
19	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
20	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
21	G.I.Nut Bolts	Kg.	90	82.90	7461.00
22	Sundries	LS	1	810.00	810.00
23	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.00	2736.00

Cost of material

476012.27

1	Transportation on material	4.00%	19040
2	T&P on material cost	1.00%	4760
3	Contingencies on material	2.50%	11900
5	Erection cost on material	15.00%	71402
6	Contractor supervision charges on material	5.00%	23801
7	Insurance , Labour & Finance Cost	3.00%	14280

Service Cost

145184

Sub-Total

621196

8	Turnkey Charges	5.00%	31060
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Total

652256

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	828357	652256
Total Cost of the Estimate	828357	652256

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 2 strut support considered.

Item Code No. 0911					
11 kV Single Circuit Express/Highway Crossing with 55 sqmm AAAC line on100X116MM, 11 mtr RSJ Poles					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 11 m long	No.	4	11311.00	45244.00
2	M.S.Channel 75x40x6 mm	Kg.	160	51.80	8288.00
3	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
4	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
5	AAAC 55 mm2	m	100	28.56	2856.00
6	11 kV Pin Insulators with G.I. Pins	NO.	6	135.00	810.00
7	Disc Insulator 11 KV 45 KN	NO.	12	244.00	2928.00
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	322.00	1932.00
9	H.T.Stay Set	No	4	598.00	2392.00
10	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
11	Earthing Sets H.T	No.	4	342.00	1368.00
12	Danger Board in yard.	No.	4	50.00	200.00
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
14	G.I.Barbed Wire 'A' type.	kg.	30	64.27	1928.10
15	Concreting ration 1:3:6	CMT.	4	3027.00	12108.00
16	Black Bituminus Paint	Ltr.	1	85.00	85.00



17	Red Oxide Paint for 2 coats	Ltr.	3	85.00	255.00
18	Aluminium Paint for 1 coat	Ltr.	2	113.00	226.00
19	Sundries	L.S.	1	810.00	810.00
20	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	12	114.00	1368.00

Cost of material **87972.95**

1	Transportation on material	4.00%	3519
2	T&P on material cost	1.00%	880
3	Contingencies on material	2.50%	2199
5	Erection cost on material	15.00%	13196
6	Contractor supervision charges on material	5.00%	4399
7	Insurance , Labour & Finance Cost	3.00%	2639

Service Cost **26832**

Sub-Total **114805**

8	Turnkey Charges	5.00%	5740
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Total **120545**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	153091	120545
Total Cost of the Estimate	153091	120545

Item Code No. 0912

11 kV Single Circuit Express/Highway Crossing with 100 sqmm AAAC line on 152X152MM, 13 mtr RSJ Poles

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	21562.00	86248.00
2	M.S.Channel 75x40x6 mm	Kg.	160	51.80	8288.00
3	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
4	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
5	AAAC 100 mm2	m	100	51.82	5182.00
6	11 kV Pin Insulators with G.I. Pins	NO.	6	135.00	810.00
7	Disc Insulator 11 KV 45 KN	NO.	12	244.00	2928.00
8	Strain Hardware for Dog.0.1 or Equ.AAAC.	No.	12	322.00	3864.00
9	H.T.Stay Set	No	4	598.00	2392.00
10	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
11	Earthing Sets H.T	No.	4	342.00	1368.00
12	Danger Board in yard.	No.	4	50.00	200.00
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
14	G.I.Barbed Wire 'A' type.	kg.	30	64.27	1928.10
15	Concreting ration 1:3:6	CMT.	4	3027.00	12108.00
16	Black Bituminus Paint	Ltr.	2	85.00	170.00
17	Red Oxide Paint for 2 coats	Ltr.	6	85.00	510.00
18	Aluminium Paint for 1 coat	Ltr.	4	113.00	452.00
19	Sundries	L.S.	1	810.00	810.00
20	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	12	559.00	6708.00

Cost of material **139140.95**

1	Transportation on material	4.00%	5566
2	T&P on material cost	1.00%	1391
3	Contingencies on material	2.50%	3479
5	Erection cost on material	15.00%	20871
6	Contractor supervision charges on material	5.00%	6957
7	Insurance , Labour & Finance Cost	3.00%	4174

Service Cost **42438**

Sub-Total **181579**

8	Turnkey Charges	5.00%	9079
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Total **190658**

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Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	242133	190658
Total Cost of the Estimate	242133	190658

Item Code No. 0913
Cost Data for laying of 1 Km. 11 KV 3 C 300 mm 2 XLPE under ground Cable

Sr.No.	Particulars	Unit	Qty.	RT/U.Rs.	Amount
1	XLPE Cable 11 KV, 3 C / 300 mm sq.	Rmt	1000.00	1194.00	1194000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	RCC Tiles (0.6 x 0.5) Mtrs.	No.	940.00	104.00	97760.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 300 sqmm	No	2.00	5289.00	10578.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 300 sqmm	No.	2.00	2030.00	4060.00
6	Sand	Cmt	250.00	222.00	55500.00
7	Misc. for XLPE U/G Cable	LS	1.00	1050.00	1050.00

Cost of material **1380108.00**

1	Transportation on material	4.00%	55204
2	T&P on material cost	1.00%	13801
3	Contingencies on material	2.50%	34503
5	Erection cost on material	15.00%	207016
6	Contractor supervision charges on material	5.00%	69005
7	Insurance , Labour & Finance Cost	3.00%	41403

Service Cost **420933**

Sub-Total **1801041**

8	Turnkey Charges	5.00%	90052
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Total **1891093**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	2401664	1891093
Total Cost of the Estimate	2401664	1891093

Item Code No.0915
Cost Data for laying of 1 Km. 11 KV 3 C 185 mm 2 XLPE under ground Cable

Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount
1	XLPE Cable 11 KV, 3 C / 185 mm sq.	Rmt	1000.00	858.00	858000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	110.00	103400.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 185 sqmm	No.	2.00	5043.00	10086.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 185 sqmm	No.	2.00	1907.00	3814.00
6	Sand	Cmt	250.00	222.00	55500.00
7	Misc. for XLPE U/G Cable	LS	1.00	1050.00	1050.00

Cost of material **1049010.00**

1	Transportation on material	4.00%	41960
2	T&P on material cost	1.00%	10490
3	Contingencies on material	2.50%	26225
5	Erection cost on material	15.00%	157352
6	Contractor supervision charges on material	5.00%	52451
7	Insurance , Labour & Finance Cost	3.00%	31470

Service Cost **319948**

Sub-Total **1368958**

8	Turnkey Charges	5.00%	68448
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Total **1437406**

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Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	1825487	1437406
Total Cost of the Estimate	1825487	1437406

Item Code No.0916
Estimate for laying of 1 Km. 11 KV 3 C 95 mm 2 XLPE under ground Cable

Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount
1	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	1000.00	592.00	592000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	110.00	103400.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 95 sqmm	No.	2.00	4182.00	8364.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 95 sqmm	No.	2.00	1459.00	2918.00
6	Sand	Cmt	250.00	222.00	55500.00
7	Misc. for XLPE U/G Cable	LS	1.00	1050.00	1050.00

Cost of material **780392.00**

1	Transportation on material	4.00%	31216
2	T&P on material cost	1.00%	7804
3	Contingencies on material	2.50%	19510
5	Erection cost on material	15.00%	117059
6	Contractor supervision charges on material	5.00%	39020
7	Insurance , Labour & Finance Cost	3.00%	23412

Service Cost **238020**

Sub-Total **1018412**

8	Turnkey Charges	5.00%	50921
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Total **1069332**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	1358038	1069332
Total Cost of the Estimate	1358038	1069332

Item Code No. 0917
Conversion of 11 kV line by 3 core 185 sqmm Cable

Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount
1	XLPE Cable 11 KV, 3 C / 185 mm sq.	Rmt	1000.00	858.00	858000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	110.00	103400.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 185 sqmm	No	2.00	5043.00	10086.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 185 sqmm	No.	2.00	1907.00	3814.00
6	Sand	Cmt	250.00	222.00	55500.00
7	Misc. for XLPE U/G Cable	LS	1.00	1050.00	1050.00

Cost of material **1049010.00**

1	Transportation on material	4.00%	41960
2	T&P on material cost	1.00%	10490
3	Contingencies on material	2.50%	26225
5	Erection cost on material	15.00%	157352
6	Contractor supervision charges on material	5.00%	52451
7	Insurance , Labour & Finance Cost	3.00%	31470

Service Cost **319948**

Sub-Total **1368958**

8	Turnkey Charges	5.00%	68448
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Total **1437406**

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Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	1825487	1437406
Total Cost of the Estimate	1825487	1437406

Item Code No. 0918					
Conversion of 11 kV line by 3 core 95 sqmm Cable					
Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount
1	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	1000.00	592.00	592000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	110.00	103400.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 95 sqmm	No	2.00	4182.00	8364.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 95 sqmm	No.	2.00	1459.00	2918.00
6	Sand	Cmt	250.00	222.00	55500.00
7	Misc. for XLPE U/G Cable	LS	1.00	1050.00	1050.00

Cost of material **780392.00**

1	Transportation on material	4.00%	31216
2	T&P on material cost	1.00%	7804
3	Contingencies on material	2.50%	19510
5	Erection cost on material	15.00%	117059
6	Contractor supervision charges on material	5.00%	39020
7	Insurance , Labour & Finance Cost	3.00%	23412

Service Cost

Sub-Total

8	Turnkey Charges	5.00%	50921
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Total

1069332

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	1358038	1069332
Total Cost of the Estimate	1358038	1069332

Item Code No. 0919					
Cost data for Major river crossing with 55 sqmm overhead conductor on 152X152MM,13 mtr RSJ pole as per sketch for one span of 100 mtr.					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	21562.00	86248.00
2	M.S.Channel 75x40x6 mm	Kg.	75	51.80	3885.00
3	MS Channel 100x50x6 mm	Kg.	110	51.80	5698.00
4	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
5	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
6	AAAC 55 mm2	Rmt	330	28.56	9424.80
7	11 kV Pin Insulators with G.I. Pins	NO.	6	135.00	810.00
8	Disc Insulator 11 KV 45 KN	NO.	12	244.00	2928.00
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	322.00	3864.00
10	H.T.Stay Set	No	4	598.00	2392.00
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
12	Earthing Sets H.T	No.	4	342.00	1368.00
13	Danger Board in yard.	No.	4	50.00	200.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
15	G.I.Barbed Wire 'A' type.	kg.	30	64.27	1928.10
16	Black Bituminus Paint	Ltr.	2	85.00	170.00
17	Red Oxide Paint for 2 coats	Ltr.	6	85.00	510.00
18	Aluminium Paint for 1 coat	Ltr.	4	113.00	452.00
19	Concreting ration 1:3:6	CMT.	4	3027.00	12108.00
20	Sundries	L.S.	1	810.00	810.00
21	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	12	114.00	1368.00



Cost of material

139338.75

1	Transportation on material	4.00%	5574
2	T&P on material cost	1.00%	1393
3	Contingencies on material	2.50%	3483
5	Erection cost on material	15.00%	20901
6	Contractor supervision charges on material	5.00%	6967
7	Insurance , Labour & Finance Cost	3.00%	4180
	Service Cost		42498
	Sub-Total		181837
8	Turnkey Charges	5.00%	9092

Total

190929

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	242477	190929
Total Cost of the Estimate	242477	190929

Item Code No. 0920

DOUPLE POLE STRUCTURE(cut point) OF- 11 KV LINE USING13 M LONG RSJ POLE

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	2	21562.00	43124.00
2	M.S. Flats(50 X 10mm)	Kg.	10	48.50	485.00
3	MS Channel 100x50x6 mm	Kg.	110	51.80	5698.00
4	M.S.Channel 75x40x6 mm	Kg.	75	51.80	3885.00
5	MS angle 50x50x6 mm	Kg.	50	51.80	2590.00
6	Strain Hardware for Dog.0.1 or Equ.AAAC.	No.	6	322.00	1932.00
7	Disc Insulator 11 KV 70 KN	No.	6	344.00	2064.00
8	H.T.Stay Set	No.	2	598.00	1196.00
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	57.45	1436.25
10	Earthing Sets H.T	No	2	342.00	684.00
11	G.I.Wire 8 SWG/ 6 SWG	kg.	6	57.40	344.40
12	G.I.Barbed Wire 'A' type.	kg.	7	64.27	449.89
13	Danger Board in yard.	No.	2	50.00	100.00
14	Red Oxide Paint for 2 coats	Ltr.	6	85.00	510.00
15	Aluminium Paint for 1 coat	Ltr.	4	113.00	452.00
16	Black Bituminus Paint	Ltr.	2	85.00	170.00
17	Concreting ration 1:3:6	Cmt.	2	3027.00	6054.00
18	Sundries	L.S.	1	810.00	810.00

Cost of material

71984.54

1	Transportation on material	4.00%	2879
2	T&P on material cost	1.00%	720
3	Contingencies on material	2.50%	1800
5	Erection cost on material	15.00%	10798
6	Contractor supervision charges on material	5.00%	3599
7	Insurance , Labour & Finance Cost	3.00%	2160
	Service Cost		21955
	Sub-Total		93940
8	Turnkey Charges	5.00%	4697

Total

98637

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	125267	98637
Total Cost of the Estimate	125267	98637

Item Code No. 0921

DOUPLE POLE STRUCTURE(cut point) OF- 11 KV LINE USING11 M LONG RSJ POLE



S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 11 m long	No.	2	18245.00	36490.00
2	M.S. Flats(50 X 10mm)	Kg.	10	48.50	485.00
3	MS Channel 100x50x6 mm	Kg.	110	51.80	5698.00
4	M.S.Channel 75x40x6 mm	Kg.	75	51.80	3885.00
5	MS angle 50x50x6 mm	Kg.	50	51.80	2590.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	322.00	1932.00
7	Disc Insulator 11 KV 70 KN	No.	6	344.00	2064.00
8	H.T.Stay Set	No.	2	598.00	1196.00
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	57.45	1436.25
10	Earthing Sets H.T	No	2	342.00	684.00
11	G.I.Wire 8 SWG/ 6 SWG	kg.	6	57.40	344.40
12	G.I.Barbed Wire 'A' type.	kg.	7	64.27	449.89
13	Danger Board in yard.	No.	2	50.00	100.00
14	Black Bituminus Paint	Ltr.	2	85.00	170.00
15	Red Oxide Paint for 2 coats	Ltr.	6	85.00	510.00
16	Aluminium Paint for 1 coat	Ltr.	4	113.00	452.00
17	Concreting ration 1:3:6	Cmt.	2	3027.00	6054.00
18	Sundries	L.S.	1	810.00	810.00

Cost of material **65350.54**

1	Transportation on material	4.00%	2614
2	T&P on material cost	1.00%	654
3	Contingencies on material	2.50%	1634
5	Erection cost on material	15.00%	9803
6	Contractor supervision charges on material	5.00%	3268
7	Insurance , Labour & Finance Cost	3.00%	1961

Service Cost **19932**

Sub-Total **85282**

8	Turnkey Charges	5.00%	4264
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Total **89547**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	113723	89547
Total Cost of the Estimate	113723	89547

Item Code No. 0922

DOUPLE POLE STRUCTURE(cut point) OF- 11 KV LINE USING11 M LONG RSJ POLE

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 11 m long	No.	2	11311.00	22622.00
2	M.S. Flats(50 X 10mm)	Kg.	10	48.50	485.00
3	MS Channel 100x50x6 mm	Kg.	110	51.80	5698.00
4	M.S.Channel 75x40x6 mm	Kg.	75	51.80	3885.00
5	MS angle 50x50x6 mm	Kg.	50	51.80	2590.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	322.00	1932.00
7	Disc Insulator 11 KV 70 KN	No.	6	344.00	2064.00
8	H.T.Stay Set	No.	2	598.00	1196.00
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	57.45	1436.25
10	Earthing Sets H.T	No	2	342.00	684.00
11	G.I.Wire 8 SWG/ 6 SWG	kg.	6	57.40	344.40
12	G.I.Barbed Wire 'A' type.	kg.	7	64.27	449.89
13	Danger Board in yard.	No.	2	50.00	100.00
14	Black Bituminus Paint	Ltr.	2	85.00	170.00
15	Red Oxide Paint for 2 coats	Ltr.	6	85.00	510.00
16	Aluminium Paint for 1 coat	Ltr.	4	113.00	452.00
17	Concreting ration 1:3:6	Cmt.	2	3027.00	6054.00
18	Sundries	L.S.	1	810.00	810.00

Cost of material **51482.54**

1	Transportation on material	4.00%	2059
2	T&P on material cost	1.00%	515
3	Contingencies on material	2.50%	1287



5	Erection cost on material	15.00%	7722
6	Contractor supervision charges on material	5.00%	2574
7	Insurance , Labour & Finance Cost	3.00%	1544
	Service Cost		15702
	Sub-Total		67185
8	Turnkey Charges	5.00%	3359

Total			70544
Particulars	DPR Amount	Tender/ Estimate Amount	
	74.02%	37.025%	
Cost with overheads on Material	89590	70544	
Total Cost of the Estimate	89590	70544	

Item code No. 0923
SINGLE POLE CUT POINT STRUCTURE FOR 11KV LINE ON RSJ 9 M POLE

S.N.	Description of material	Unit	Qty.	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 9 m long	No.	1	9254.00	9254.00
2	M.S.Channel 75x40x6 mm	Kg.	40	51.80	2072.00
3	MS angle 50x50x6 mm	Kg.	25	51.80	1295.00
4	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	322.00	1932.00
5	Disc Insulator 11 KV 70 KN	No.	6	344.00	2064.00
6	H.T.Stay Set	No.	2	598.00	1196.00
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	13	57.45	746.85
8	Earthing Sets H.T	No.	1	342.00	342.00
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	57.40	114.80
10	G.I.Barbed Wire 'A' type.	Kg.	2	64.27	128.54
11	Danger Board in yard.	No.	1	50.00	50.00
12	Black Bituminous Paint	Ltr.	0.5	85.00	42.50
13	Red Oxide Paint for 2 coats	Ltr.	1.5	85.00	127.50
14	Aluminium Paint for 1 coat	Ltr.	1	113.00	113.00
15	Concreting ration 1:3:6	Cmt.	1.5	3027.00	4540.50
16	Sundries	LS	1	810.00	810.00

Cost of material **24828.69**

1	Transportation on material	4.00%	993
2	T&P on material cost	1.00%	248
3	Contingencies on material	2.50%	621
5	Erection cost on material	15.00%	3724
6	Contractor supervision charges on material	5.00%	1241
7	Insurance , Labour & Finance Cost	3.00%	745
	Service Cost		7573
	Sub-Total		32401
8	Turnkey Charges	5.00%	1620

Total			34022
Particulars	DPR Amount	Tender/ Estimate Amount	
	74.02%	37.025%	
Cost with overheads on Material	43207	34022	
Total Cost of the Estimate	43207	34022	

Item code No. 0924
SINGLE POLE CUT POINT STRUCTURE FOR 11KV LINE ON RSJ 11 M POLE

S.N.	Description of material	Unit	Qty.	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 11 m long	No.	1	18245.00	18245.00
2	M.S.Channel 75x40x6 mm	Kg.	40	51.80	2072.00
3	MS angle 50x50x6 mm	Kg.	25	51.80	1295.00
4	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	322.00	1932.00
5	Disc Insulator 11 KV 70 KN	No.	6	344.00	2064.00
6	H.T.Stay Set	No.	2	598.00	1196.00



7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	13	57.45	746.85
8	Earthing Sets H.T	No.	1	342.00	342.00
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	57.40	114.80
10	G.I.Barbed Wire 'A' type.	Kg.	2	64.27	128.54
11	Black Bituminus Paint	Ltr.	0.5	85.00	42.50
12	Red Oxide Paint for 2 coats	Ltr.	1.5	85.00	127.50
13	Aluminium Paint for 1 coat	Ltr.	1	113.00	113.00
14	Danger Board in yard.	No.	1	50.00	50.00
15	Concreting ration 1:3:6	Cmt.	1.5	3027.00	4540.50
16	Sundries	LS	1	810.00	810.00

Cost of material **33819.69**

1	Transportation on material	4.00%	1353
2	T&P on material cost	1.00%	338
3	Contingencies on material	2.50%	845
5	Erection cost on material	15.00%	5073
6	Contractor supervision charges on material	5.00%	1691
7	Insurance , Labour & Finance Cost	3.00%	1015

Service Cost **10315**

Sub-Total **44135**

8	Turnkey Charges	5.00%	2207
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Total **46341**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	58853	46341
Total Cost of the Estimate	58853	46341

Item code No. 0925					
SINGLE POLE CUT POINT STRUCTURE FOR 11KV LINE ON PSC 9 M POLE					
S.N.	Description of material	Unit	Qty.	RT/U.Rs.	Amt Rs.
1	PSC Pole 9 Mtr (200 KG)	No.	1	2260.00	2260.00
2	M.S.Channel 75x40x6 mm	Kg.	40	51.80	2072.00
3	MS angle 50x50x6 mm	Kg.	25	51.80	1295.00
4	Strain Hardware for Dog.0.1 or Equ.AAAC.	No.	6	322.00	1932.00
5	Disc Insulator 11 KV 70 KN	No.	6	344.00	2064.00
6	H.T.Stay Set	No.	2	598.00	1196.00
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	13	57.45	746.85
8	Earthing Sets H.T	No.	1	342.00	342.00
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	57.40	114.80
10	G.I.Barbed Wire 'A' type.	Kg.	2	64.27	128.54
11	Danger Board in yard.	No.	1	50.00	50.00
12	Black Bituminus Paint	Ltr.	0.5	85.00	42.50
13	Red Oxide Paint for 2 coats	Ltr.	1.5	85.00	127.50
14	Aluminium Paint for 1 coat	Ltr.	1	113.00	113.00
15	Concreting ration 1:3:6	Cmt.	1.5	3027.00	4540.50
16	Sundries	LS	1	810.00	810.00

Cost of material **17834.69**

1	Transportation on material	4.00%	713
2	T&P on material cost	1.00%	178
3	Contingencies on material	2.50%	446
5	Erection cost on material	15.00%	2675
6	Contractor supervision charges on material	5.00%	892
7	Insurance , Labour & Finance Cost	3.00%	535

Service Cost **5440**

Sub-Total **23274**

8	Turnkey Charges	5.00%	1164
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Total **24438**

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Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	31036	24438
Total Cost of the Estimate	31036	24438

Item Code No. 0929
11 KV Single circuit Pin type with 100sq.mm AAAC lines on 100x116 mm 11 mtr RSJ poles

(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 11 m long	No.	17	11311.00	192287.00
2	RSJ 116x100, 10 m long	No.	2	10283.00	20566.00
3	11 kv guarding channel MS 75x40	Kg.	104	51.80	5387.20
4	11 KV V cross arm with clamp	No.	13	639.00	8307.00
5	11 KV Top fitting with clamp	No.	13	91.00	1183.00
6	M.S.Channel 75x40x6 mm	Kg.	122	51.80	6319.60
7	MS angle 50x50x6 mm	Kg.	72	51.80	3729.60
8	M.S. Flats(50 X 10mm)	Kg.	37	48.50	1794.50
9	G.I.Nut Bolts	Kg.	90	82.90	7461.00
10	11 kV Pin Insulators with G.I. Pins	No.	39	135.00	5265.00
11	Disc Insulator 11 KV 70 KN	No.	24	344.00	8256.00
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	24	322.00	7728.00
13	AAAC 100 mm2	Rmt	3150	51.82	163233.00
14	Sieve Joints	No.	3	115.00	345.00
15	H.T.Stay Set	Set	8	598.00	4784.00
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	57.45	4596.00
17	Earthing Sets H.T	Set	17	342.00	5814.00
18	G.I.Barbed Wire 'A' type.	Kg.	77	64.27	4948.79
19	Danger Board in yard.	No.	17	50.00	850.00
20	Concreting ration 1:3:6	Cmt.	20	3027.00	60540.00
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	57.40	7462.00
22	Black Bituminous Paint	Ltr.	6	85.00	510.00
23	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
24	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
25	Sundries	LS	1	810.00	810.00
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	559.00	13416.00

Cost of material **538309.69**

1	Transportation on material	4.00%	21532
2	T&P on material cost	1.00%	5383
3	Contingencies on material	2.50%	13458
5	Erection cost on material	15.00%	80746
6	Contractor supervision charges on material	5.00%	26915
7	Insurance , Labour & Finance Cost	3.00%	16149
Service Cost			164184
Sub-Total			702494
8	Turnkey Charges	5.00%	35125

Total **737619**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	936767	737619
Total Cost of the Estimate	936767	737619

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Concentering for all poles, struts & stages. (1:4:8)
- 4) 2 strut support considered.

Item Code No. 0933



Cost Data for Supply, Erection, Testing & Commissioning of HT Pillar

Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount
1	11 KV Feeder Pillar 4 Way	No.	1.00	76198.00	76198.00
Cost of material					76198.00
1	Transportation on material		4.00%		3048
2	T&P on material cost		1.00%		762
3	Contingencies on material		2.50%		1905
5	Erection cost on material		15.00%		11430
6	Contractor supervision charges on material		5.00%		3810
7	Insurance , Labour & Finance Cost		3.00%		2286
Service Cost					23240
Sub-Total					99438
8	Turnkey Charges		5.00%		4972
Total					104410
9	HT Pillar Foundation		1.00	12554.93	12555
Total Cost of Estimate					116965

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	132600	104410
HT Pillar Foundation	12555	12555
Total Cost of the Estimate	145155	116965

Item Code No. 1001

22 KV ,25 KVA Dist. Transformer centers on 9 mtrs RSJ poles with MCCB Dist box.

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Distribution T/F 22 / .433 KV 25 KVA O/D	No.	1	75787.00	75787.00
2	RSJ 116x100, 9 m long	No.	2	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	kg.	44	51.80	2279.20
5	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
7	22 kV Pin Insulators with G.I. Pins	NO.	3	336.00	1008.00
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	322.00	966.00
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	12270.00	12270.00
10	L.A.s 22KV (Gapless type) with disconnecter	Set.	1	2280.00	2280.00
11	H.T.Stay Set	No	4	598.00	2392.00
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
13	Earthing Sets H.T	No.	3	342.00	1026.00
14	22KV H.G.Fuses	Set.	1	4467.00	4467.00
15	22KV A.B.Switch, 400 A	No.	1	14447.00	14447.00
16	Danger Board in yard.	No.	2	50.00	100.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
18	G.I.Barbed Wire 'A' type.	kg.	15	64.27	964.05
19	Concreting ration 1:3:6	CMT.	2	3027.00	6054.00
20	Painting/Hardware & support with numbering of pole	L.S.	1	225.00	225.00
21	DTC Metring with Box, single core L.T. XLPE cable (16 sq.mm., 120 mtr length) and other allied material.	No.	1	7514.00	7514.00
22	Sundries	L.S.	1	810.00	810.00
Cost of material					161452.10

1	Transportation on material	4.00%	6458
2	T&P on material cost	1.00%	1615
3	Contingencies on material	2.50%	4036
5	Erection cost on material	15.00%	24218
6	Contractor supervision charges on material	5.00%	8073
7	Insurance , Labour & Finance Cost	3.00%	4844
Service Cost			49243
Sub-Total			210695
8	Turnkey Charges	5.00%	10535



Total

221230

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	280959	221230
Total Cost of the Estimate	280959	221230

Item Code No. 1002

22 KV ,63 KVA Dist. Transformer centers on 9 mtrs RSJ poles with MCCB Dist box.

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Dist. transformer 63kva,22/0.4kv	No.	1	151370.00	151370.00
2	RSJ 116x100, 9 m long	No	2	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	kg.	44	51.80	2279.20
5	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
7	22 kV Pin Insulators with G.I. Pins	NO.	3	336.00	1008.00
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	322.00	966.00
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	12270.00	12270.00
10	L.A.s 22KV (Gapless type) with disconnecter	Set.	1	2280.00	2280.00
11	H.T.Stay Set	No	4	598.00	2392.00
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
13	Earthing Sets H.T	No.	3	342.00	1026.00
14	22KV H.G.Fuses	Set.	1	4467.00	4467.00
15	22KV A.B.Switch, 400 A	No.	1	14447.00	14447.00
16	Danger Board in yard.	No.	2	50.00	100.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
18	G.I.Barbed Wire 'A' type.	kg.	15	64.27	964.05
19	Concreting ration 1:3:6	CMT.	2	3027.00	6054.00
20	Painting/Hardware & support with numbering of pole	L.S.	1	225.00	225.00
21	DTC Metring with Box, single core L.T. XLPE cable (35 sq.mm., 120 mtr length) and other allied material.	No.	1	7514.00	7514.00
22	Sundries	L.S.	1	810.00	810.00

Cost of material

237035.10

1	Transportation on material	4.00%	9481
2	T&P on material cost	1.00%	2370
3	Contigencies on material	2.50%	5926
5	Erection cost on material	15.00%	35555
6	Contractor supervision charges on material	5.00%	11852
7	Insurance , Labour & Finance Cost	3.00%	7111

Service Cost

72296

Sub-Total

309331

8	Turnkey Charges	5.00%	15467
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Total

324797

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	412488	324797
Total Cost of the Estimate	412488	324797

Item Code No. 1004

POLE MOUNTED DISTRIBUTION TRANSFORMER SUB-STATION 100KVA, 22/0.433 KV ON RSJ POLE

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Dist.transformer 100kva,22/0.4kv	No.	1	202380.00	202380.00
2	RSJ 116x100, 9 m long	No	2	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	kg.	44	51.80	2279.20
5	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00



7	22 kV Pin Insulators with G.I. Pins	NO.	3	336.00	1008.00
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	322.00	966.00
9	L.T.Dist.Boxes 100 KVA with MCCB	No.	1	12822.00	12822.00
10	L.A.s 22KV (Gapless type) with disconnecter	Set.	1	2280.00	2280.00
11	H.T.Stay Set	No	4	598.00	2392.00
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
13	Earthing Sets H.T	No.	3	342.00	1026.00
14	22KV H.G.Fuses	Set.	1	4467.00	4467.00
15	22KV A.B.Switch, 400 A	No.	1	14447.00	14447.00
16	Danger Board in yard.	No.	2	50.00	100.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
18	G.I.Barbed Wire 'A' type.	kg.	15	64.27	964.05
19	Concreting ration 1:3:6	CMT.	2	3027.00	6054.00
20	Painting/Hardware & support with numbering of pole	L.S.	1	225.00	225.00
21	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	No.	1	7529.20	7529.20
22	Sundries	L.S.	1	810.00	810.00

Cost of material

288612.30

1	Transportation on material	4.00%	11544
2	T&P on material cost	1.00%	2886
3	Contingencies on material	2.50%	7215
5	Erection cost on material	15.00%	43292
6	Contractor supervision charges on material	5.00%	14431
7	Insurance , Labour & Finance Cost	3.00%	8658

Service Cost

88027

Sub-Total

376639

8	Turnkey Charges	5.00%	18832
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Total

395471

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	502243	395471
Total Cost of the Estimate	502243	395471

Item Code No. 1005

22 KV ,200 KVA Dist. Transformer centers on 100x116mm, 9 mtrs RSJ poles with MCCB Dist box.

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Dist.transformer 200kva,22/0.4kv	No.	1	306520.00	306520.00
2	RSJ 116x100, 9 m long	No	2	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	kg.	44	51.80	2279.20
5	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
7	22 kV Pin Insulators with G.I. Pins	NO.	3	336.00	1008.00
8	Disc Insulator 11 KV 45 KN	No.	6	244.00	1464.00
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	322.00	966.00
10	L.T.Dist.Boxes 200 KVA with MCCB	No.	1	24768.00	24768.00
11	L.A.s 22KV (Gapless type) with disconnecter	Set.	1	2280.00	2280.00
12	H.T.Stay Set	No	4	598.00	2392.00
13	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
14	Earthing Sets H.T	No.	3	342.00	1026.00
15	22KV H.G.Fuses	Set.	1	4467.00	4467.00
16	22KV A.B.Switch, 400 A	No.	1	14447.00	14447.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
19	G.I.Barbed Wire 'A' type.	kg.	15	64.27	964.05
20	Concreting ration 1:3:6	CMT.	2	3027.00	6054.00
21	Painting/Hardware & support with numbering of pole	L.S.	1	225.00	225.00
22	DTC Metring with Box, single core L.T. XLPE cable (185 sq.mm., 200 mtr length) and other allied material.	No.	1	7613.00	7613.00
23	Sundries	L.S.	1	810.00	810.00

Cost of material

406246.10



1	Transportation on material	4.00%	16250
2	T&P on material cost	1.00%	4062
3	Contingencies on material	2.50%	10156
5	Erection cost on material	15.00%	60937
6	Contractor supervision charges on material	5.00%	20312
7	Insurance , Labour & Finance Cost	3.00%	12187
	Service Cost		123905
	Sub-Total		530151
8	Turnkey Charges	5.00%	26508

Total **556659**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	706949	556659
Total Cost of the Estimate	706949	556659

Item Code No. 1006

Cost data for Pole mounted Distribution Transformer Sub-station 200 KVA, 22/0.433 kv.

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist.transformer 200kva,22/0.4kv	No.	1	306520.00	306520.00
2	RSJ 116x100, 11 m long	No.	2	11311.00	22622.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	Kg.	44	51.80	2279.20
5	MS angle 50x50x6 mm	Kg.	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	Kg.	24	48.50	1164.00
7	22 kV Pin Insulators with G.I. Pins	No.	3	336.00	1008.00
8	Disc Insulator 11 KV 45 KN	No.	6	244.00	1464.00
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	L.T.Dist.Boxes 200 KVA with MCCB	No.	1	24768.00	24768.00
11	L.A.s 22KV (Gapless type) with disconnecter	No.	1	2280.00	2280.00
12	H.T.Stay Set	No.	2	598.00	1196.00
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	57.45	919.20
14	Earthing Sets H.T	No.	5	342.00	1710.00
15	22KV H.G.Fuses	Set	1	4467.00	4467.00
16	22KV A.B.Switch, 400 A	No.	1	14447.00	14447.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
19	G.I.Barbed Wire 'A' type.	Kg.	10	64.27	642.70
20	Concreting ration 1:3:6	Cmt.	2.3	3027.00	6962.10
21	Painting of Supports & fabricated materials	LS	1	155.00	155.00
22	DTC Metring with Box, single core L.T. XLPE cable (185 sq.mm., 200 mtr length) and other allied material.	No.	1	7613.00	7613.00
23	Sundries	LS	1	810.00	810.00

Cost of material **410538.00**

1	Transportation on material	4.00%	16422
2	T&P on material cost	1.00%	4105
3	Contingencies on material	2.50%	10263
5	Erection cost on material	15.00%	61581
6	Contractor supervision charges on material	5.00%	20527
7	Insurance , Labour & Finance Cost	3.00%	12316
	Service Cost		125214
	Sub-Total		535752
8	Turnkey Charges	5.00%	26788

Total **562540**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	714418	562540
Total Cost of the Estimate	714418	562540



Item Code No. 1007

22 KV ,315 KVA Dist. Transformer centers on 9 mtrs RSJ poles on plinth.

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 315 KVA, 22/0.43 kv	No.	1	460697.00	460697.00
2	RSJ 116x100, 9 m long	No.	2	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg.	124	51.80	6423.20
4	M.S.Channel 75x40x6 mm	Kg.	100	51.80	5180.00
5	MS angle 50x50x6 mm	Kg.	86	51.80	4454.80
6	M.S. Flats(50 X 10mm)	Kg.	56	48.50	2716.00
7	22 kV Pin Insulators with G.I. Pins	No.	3	336.00	1008.00
8	Disc Insulator 11 KV 45 KN	No.	6	244.00	1464.00
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	6 way feeder pillar with ACB	No.	1	61963.00	61963.00
11	L.A.s 22KV (Gapless type) with disconnecter	Set	1	2280.00	2280.00
12	H.T.Stay Set	No.	2	598.00	1196.00
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	57.45	919.20
14	Earthing Sets H.T	No.	5	342.00	1710.00
15	22KV H.G.Fuses	Set	1	4467.00	4467.00
16	22KV A.B.Switch, 400 A	No.	1	14447.00	14447.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
19	G.I.Barbed Wire 'A' type.	Kg.	10	64.27	642.70
20	Concreting ration 1:3:6	Cmt.	10.25	3027.00	31026.75
21	Painting of Supports & fabricated materials	LS	1	155.00	155.00
22	Sundries	LS	1	810.00	810.00
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	1	7676.00	7676.00
24	Minor Fabrication, etc.				

Cost of material

630934.85

1	Transportation on material	4.00%	25237
2	T&P on material cost	1.00%	6309
3	Contingencies on material	2.50%	15773
5	Erection cost on material	15.00%	94640
6	Contractor supervision charges on material	5.00%	31547
7	Insurance , Labour & Finance Cost	3.00%	18928
Service Cost			192435
Sub-Total			823370
8	Turnkey Charges	5.00%	41168

Total

864538

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1097953	864538
Total Cost of the Estimate	1097953	864538

Item Code No. 1008

Cost data for Pole mounted Distribution Transformer Sub-station 315 KVA, 22/0.433 kv.

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 315 KVA, 22/0.43 kv	No.	1	460697.00	460697.00
2	RSJ 116x100, 11 m long	No.	2	11311.00	22622.00
3	MS Channel 100x50x6 mm	Kg.	124	51.80	6423.20
4	M.S.Channel 75x40x6 mm	Kg.	100	51.80	5180.00
5	MS angle 50x50x6 mm	Kg.	86	51.80	4454.80
6	M.S. Flats(50 X 10mm)	Kg.	56	48.50	2716.00
7	11 kV Pin Insulators with G.I. Pins	No.	3	135.00	405.00
8	Disc Insulator 11 KV 45 KN	No.	6	244.00	1464.00
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	6 way feeder pillar with ACB	No.	1	61963.00	61963.00
11	L.A.s 22KV (Gapless type) with disconnecter	Set	1	2280.00	2280.00
12	H.T.Stay Set	No.	2	598.00	1196.00



13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	57.45	919.20
14	Earthing Sets H.T	No.	5	342.00	1710.00
15	22KV H.G.Fuses	Set	1	4467.00	4467.00
16	22KV A.B.Switch, 400 A	No.	1	14447.00	14447.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
19	G.I.Barbed Wire 'A' type.	Kg.	10	64.27	642.70
20	Concreting ration 1:3:6	Cmt.	2.3	3027.00	6962.10
21	Painting of Supports & fabricated materials	LS	1	155.00	155.00
22	Sundries	LS	1	810.00	810.00
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	1	7676.00	7676.00
24	Minor Fabrication, etc.				

Cost of material

610381.20

1	Transportation on material	4.00%	24415
2	T&P on material cost	1.00%	6104
3	Contingencies on material	2.50%	15260
5	Erection cost on material	15.00%	91557
6	Contractor supervision charges on material	5.00%	30519
7	Insurance , Labour & Finance Cost	3.00%	18311

Service Cost

186166

Sub-Total

796547

8	Turnkey Charges	5.00%	39827
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Total

836375

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	1062185
Total Cost of the Estimate	1062185	836375

Item Code No. 1009

Cost data for Plinth mounted Distribution Transformer Sub-station 630 KVA, 22/0.433 kv.

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 630 KVA, 22/0.43 kv	No.	1	682480.00	682480.00
2	RSJ 116x100, 9 m long	No.	2	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg.	180	51.80	9324.00
4	M.S.Channel 75x40x6 mm	Kg.	150	51.80	7770.00
5	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
6	M.S. Flats(50 X 10mm)	Kg.	75	48.50	3637.50
7	22 kv Pin Insulators with G.I. Pins	No.	3	336.00	1008.00
8	Disc Insulator 11 KV 45 KN	No.	6	244.00	1464.00
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	8 way feeder pillar with ACB	No.	1	64190.00	64190.00
11	L.A.s 22KV (Gapless type) with disconnector	Set	1	2280.00	2280.00
12	H.T.Stay Set	No.	2	598.00	1196.00
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	24	57.45	1378.80
14	Earthing Sets H.T	No.	5	342.00	1710.00
15	22KV H.G.Fuses	Set	1	4467.00	4467.00
16	22KV A.B.Switch, 400 A	No.	1	14447.00	14447.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
19	G.I.Barbed Wire 'A' type.	Kg.	10	64.27	642.70
20	Concreting ration 1:3:6	Cmt.	10.25	3027.00	31026.75
21	Painting of Supports & fabricated materials	LS	1	155.00	155.00
22	Sundries	LS	1	810.00	810.00
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 630 KVA	No.	1	8076.00	8076.00

Cost of material

862941.95

1	Transportation on material	4.00%	34518
2	T&P on material cost	1.00%	8629
3	Contingencies on material	2.50%	21574



5	Erection cost on material	15.00%	129441
6	Contractor supervision charges on material	5.00%	43147
7	Insurance , Labour & Finance Cost	3.00%	25888
	Service Cost		263197
	Sub-Total		1126139
8	Turnkey Charges	5.00%	56307

Total **1182446**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1501692	1182446
Total Cost of the Estimate	1501692	1182446

Item Code No. 1010
Cost data for Pole mounted Distribution Transformer Sub-station 630 KVA, 22/0.433 kv.

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 630 KVA, 22/0.43 kv	No.	1	682480.00	682480.00
2	RSJ 116x100, 11 m long	No.	2	11311.00	22622.00
3	MS Channel 100x50x6 mm	Kg.	180	51.80	9324.00
4	M.S.Channel 75x40x6 mm	Kg.	150	51.80	7770.00
5	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
6	M.S. Flats(50 X 10mm)	Kg.	75	48.50	3637.50
7	11 kV Pin Insulators with G.I. Pins	No.	3	135.00	405.00
8	Disc Insulator 11 KV 45 KN	No.	6	244.00	1464.00
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	8 way feeder pillar with ACB	No.	1	64190.00	64190.00
11	L.A.s 22KV (Gapless type) with disconnector	Set	1	2280.00	2280.00
12	H.T.Stay Set	No.	2	598.00	1196.00
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	24	57.45	1378.80
14	Earthing Sets H.T	No.	5	342.00	1710.00
15	22KV H.G.Fuses	Set	1	4467.00	4467.00
16	22KV A.B.Switch, 400 A	No.	1	14447.00	14447.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
19	G.I.Barbed Wire 'A' type.	Kg.	10	64.27	642.70
20	Concreting ration 1:3:6	Cmt.	3.5	3027.00	10594.50
21	Painting of Supports & fabricated materials	LS	1	155.00	155.00
22	Sundries	LS	1	810.00	810.00
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 630 KVA	No.	1	8076.00	8076.00

Cost of material **846020.70**

1	Transportation on material	4.00%	33841
2	T&P on material cost	1.00%	8460
3	Contigencies on material	2.50%	21151
5	Erection cost on material	15.00%	126903
6	Contractor supervision charges on material	5.00%	42301
7	Insurance , Labour & Finance Cost	3.00%	25381
	Service Cost		258036
	Sub-Total		1104057
8	Turnkey Charges	5.00%	55203

Total **1159260**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1472245	1159260
Total Cost of the Estimate	1472245	1159260

Item Code No. 1015
22/0.4 KV ,63 KVA Dist. Transformer centers on RSJ pole 9 mtrs, with kitkat DB.



Sr.No.	Description	Unit	Qty.	Rate	Amount
1	Dist. transformer 63kva,22/0.4kv	No	1	151370.00	151370.00
2	RSJ 116x100, 9 m long	No	2	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	Kg	44	51.80	2279.20
5	MS angle 50x50x6 mm	Kg	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	Kg	24	48.50	1164.00
7	22 kV Pin Insulators with G.I. Pins	No	3	336.00	1008.00
8	Strain Hardware forWeasel/Squirrel	Set	3	179.00	537.00
9	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	11834.00	11834.00
10	L.A.s 22KV (Gapless type) with disconnecter	No	1	2280.00	2280.00
11	H.T.Stay Set	Set	4	598.00	2392.00
12	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	57.45	1436.25
13	Earthing Sets H.T	Set	7	342.00	2394.00
14	22KV H.G.Fuses	Set	1	4467.00	4467.00
15	22KV A.B.Switch, 400 A	Set	1	14447.00	14447.00
16	Danger Board in yard.	No	2	50.00	100.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
18	G.I.Barbed Wire 'A' type.	Kg.	15	64.27	964.05
19	Painting/Hardware & support with numbering of pole	No	1	225.00	225.00
20	DTC Metring with Box, single core L.T. XLPE cable (35 sq.mm., 120 mtr length) and other allied material.	Set	1	7514.00	7514.00
21	Concreting ration 1:3:6	CMT.	2	3027.00	6054.00
22	Sundries	LS	1	810.00	810.00
Cost of Material					237538.10

1	Transportation on material	4.00%	9502
2	T&P on material cost	1.00%	2375
3	Contingencies on material	2.50%	5938
5	Erection cost on material	15.00%	35631
6	Contractor supervision charges on material	5.00%	11877
7	Insurance , Labour & Finance Cost	3.00%	7126
Service Cost			72449
Sub-Total			309987
8	Turnkey Charges	5.00%	15499

Total **325487**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	413364	325487
Total Cost of the Estimate	413364	325487

Item Code No. 1016					
22/0.4 KV ,100 KVA Dist. Transformer centers on RSJ pole 9 mtrs, with kitkat DB.					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	Dist.transformer 100kva,22/0.4kv	No	1	202380.00	202380.00
2	RSJ 116x100, 9 m long	No	2	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	Kg	44	51.80	2279.20
5	MS angle 50x50x6 mm	Kg	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	Kg	24	48.50	1164.00
7	22 kV Pin Insulators with G.I. Pins	No	3	336.00	1008.00
8	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	11834.00	11834.00
9	L.A.s 22KV (Gapless type) with disconnecter	Set	1	2280.00	2280.00
10	H.T.Stay Set	Set	4	598.00	2392.00
11	Earthing Sets H.T	Set	5	342.00	1710.00
12	22KV H.G.Fuses	Set	1	4467.00	4467.00
13	22KV A.B.Switch, 400 A	Set	1	14447.00	14447.00
14	Danger Board in yard.	No	2	50.00	100.00
15	Painting/Hardware & support with numbering of pole	LS	1	225.00	225.00
16	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	No	1	7529.20	7529.20
17	Concreting ration 1:3:6	CMT.	2	3027.00	6054.00



18	Sundries	LS	1	810.00	810.00
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Cost of Material **283507.00**

1	Transportation on material	4.00%	11340
2	T&P on material cost	1.00%	2835
3	Contingencies on material	2.50%	7088
5	Erection cost on material	15.00%	42526
6	Contractor supervision charges on material	5.00%	14175
7	Insurance , Labour & Finance Cost	3.00%	8505

Service Cost **86470**

Sub-Total **369977**

8	Turnkey Charges	5.00%	18499
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Total **388475**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	493359	388475
Total Cost of the Estimate	493359	388475

Item Code No. 1017

22/0.4 KV ,100 KVA Dist. Transformer centers on RSJ pole 11 mtrs, with kitkat DB.

Sr.No.	Description	Unit	Qty.	Rate	Amount
1	Dist.transformer 100kva,22/0.4kv	No	1	202380.00	202380.00
2	RSJ 116x100, 11 m long	No	2	11311.00	22622.00
3	MS Channel 100x50x6 mm	Kg	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	Kg	44	51.80	2279.20
5	MS angle 50x50x6 mm	Kg	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	Kg	24	48.50	1164.00
7	22 kV Pin Insulators with G.I. Pins	No	3	336.00	1008.00
8	Strain Hardware forWeasel/Squirrel	Set	3	179.00	537.00
9	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	11834.00	11834.00
10	L.A.s 22KV (Gapless type) with disconnecter	No	1	2280.00	2280.00
11	H.T.Stay Set	Set	4	598.00	2392.00
12	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	57.45	1436.25
13	Earthing Sets H.T	Set	7	342.00	2394.00
14	22KV H.G.Fuses	Set	1	4467.00	4467.00
15	22KV A.B.Switch, 400 A	Set	1	14447.00	14447.00
16	Danger Board in yard.	No	2	50.00	100.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
18	G.I.Barbed Wire 'A' type.	Kg.	15	64.27	964.05
19	Painting/Hardware & support with numbering of pole	No	1	225.00	225.00
20	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	Set	1	7529.20	7529.20
21	Concreting ration 1:3:6	CMT.	2	3027.00	6054.00
22	Sundries	LS	1	810.00	810.00
Cost of Material					292677.30

1	Transportation on material	4.00%	11707
2	T&P on material cost	1.00%	2927
3	Contingencies on material	2.50%	7317
5	Erection cost on material	15.00%	43902
6	Contractor supervision charges on material	5.00%	14634
7	Insurance , Labour & Finance Cost	3.00%	8780

Service Cost **89267**

Sub-Total **381944**

8	Turnkey Charges	5.00%	19097
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Total **401041**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	509317	401041



Total Cost of the Estimate	509317	401041
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Item Code No. 1101					
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station 22/0.433 kv 100 KVA					

Sr.No	Description of Material	Unit	Qty.	RT/U.Rs.	Amount (Rs.)
1	Dist.transformer 100kva,22/0.4kv	No.	1	202380.00	202380.00
2	L.T.Dist.Boxes 100 KVA with MCCB	No.	1	12822.00	12822.00
3	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt	25	204.00	5100.00
4	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	10	329.00	3290.00
5	Sundries	no	1	810.00	810.00

Cost of material **224402.00**

1	Transportation on material	4.00%	8976
2	T&P on material cost	1.00%	2244
3	Contingencies on material	2.50%	5610
5	Erection cost on material	15.00%	33660
6	Contractor supervision charges on material	5.00%	11220
7	Insurance , Labour & Finance Cost	3.00%	6732

Service Cost **68443**

Sub-Total **292845**

8	Turnkey Charges	5.00%	14642
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Total **307487**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	390504	307487
Total Cost of the Estimate	390504	307487

Item Code No. 1102					
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station 22/0.433 kv 200 KVA with MCCB					

Sr.No	Description of Material	Unit	Qty.	RT/U.Rs.	Amount (Rs.)
1	Dist.transformer 200kva,22/0.4kv	No.	1.00	306520.00	306520.00
2	L.T.Dist.Boxes 200 KVA with MCCB	No.	1.000	24768.00	24768.00
3	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	25.00	329.00	8225.00
4	L.T. XLPE cable 3.5 Core 240 mm2	Rmt	10.00	628.00	6280.00
5	Sundries	LS	1.00	810.00	810.00

Cost of material **346603.00**

1	Transportation on material	4.00%	13864
2	T&P on material cost	1.00%	3466
3	Contingencies on material	2.50%	8665
5	Erection cost on material	15.00%	51990
6	Contractor supervision charges on material	5.00%	17330
7	Insurance , Labour & Finance Cost	3.00%	10398

Service Cost **105714**

Sub-Total **452317**

8	Turnkey Charges	5.00%	22616
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Total **474933**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	603159	474933
Total Cost of the Estimate	603159	474933

Item Code No. 1103					
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station 22/0.433 kv 100 KVA to 22/0.433 kv 315 KVA with MCCB					

Sr.No	Description of Material	Unit	Qty	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 315 KVA, 22/0.43 kv	No.	1	460697.00	460697.00



2	6 way feeder pillar with ACB	No.	1	61963.00	61963.00
3	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	25	329.00	8225.00
4	L.T. XLPE cable 3.5 Core 240 mm2	Rmt	10	628.00	6280.00
5	Sundries	LS	1	810.00	810.00

Cost of Material **537975.00**

1	Transportation on material	4.00%	21519
2	T&P on material cost	1.00%	5380
3	Contingencies on material	2.50%	13449
5	Erection cost on material	15.00%	80696
6	Contractor supervision charges on material	5.00%	26899
7	Insurance , Labour & Finance Cost	3.00%	16139

Service Cost **164082**

Sub-Total **702057**

8	Turnkey Charges	5.00%	35103
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Total **737160**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	936184	737160
Total Cost of the Estimate	936184	737160

Item Code No. 1104
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station
22/0.433 kv. 200 KVA. to 22/0.433 kv. 315 KVA. with MCCB.

Sr.No	Description of Material	Unit	Qty	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 315 KVA, 22/0.43 kv	No.	1	460697.00	460697.00
2	6 way feeder pillar with ACB	No.	1	61963.00	61963.00
3	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	25	329.00	8225.00
4	L.T. XLPE cable 3.5 Core 240 mm2	Rmt	10	628.00	6280.00
5	Sundries	LS	1	810.00	810.00

Cost of Material **537975.00**

1	Transportation on material	4.00%	21519
2	T&P on material cost	1.00%	5380
3	Contingencies on material	2.50%	13449
5	Erection cost on material	15.00%	80696
6	Contractor supervision charges on material	5.00%	26899
7	Insurance , Labour & Finance Cost	3.00%	16139

Service Cost **164082**

Sub-Total **702057**

8	Turnkey Charges	5.00%	35103
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Total **737160**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	936184	737160
Total Cost of the Estimate	936184	737160

Item Code No. 1105
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station
22/0.433 kv. 200 KVA. to 22/0.433 kv. 630 KVA. with MCCB.

Sr.No	Description of Material	Unit	Qty	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 630 KVA, 22/0.43 kv	No.	1	682480.00	682480.00
2	8 way feeder pillar with ACB	No.	1	64190.00	64190.00
3	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	725.00	32625.00
4	Sundries	LS	1	810.00	810.00

Cost of Material **780105.00**

1	Transportation on material	4.00%	31204
2	T&P on material cost	1.00%	7801



3	Contingencies on material	2.50%	19503
5	Erection cost on material	15.00%	117016
6	Contractor supervision charges on material	5.00%	39005
7	Insurance , Labour & Finance Cost	3.00%	23403
	Service Cost		237932
	Sub-Total		1018037
8	Turnkey Charges	5.00%	50902

Total **1068939**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1357539	1068939
Total Cost of the Estimate	1357539	1068939

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Item Code No. 1106					
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station 22/0.433 kv, 200 KVA to 22/0.433 kv, 630 KVA with MCCB					
Sr.No	Description of Material	Unit	Qty	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 630 KVA, 22/0.43 kv	No.	1	682480.00	682480.00
2	8 way feeder pillar with ACB	No.	1	64190.00	64190.00
3	8 way feeder pillar with ACB	No.	1	64190.00	64190.00
4	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	725.00	32625.00
5	Sundries	LS	1	810.00	810.00
Cost of Material					844295.00

1	Transportation on material	4.00%	33772
2	T&P on material cost	1.00%	8443
3	Contingencies on material	2.50%	21107
5	Erection cost on material	15.00%	126644
6	Contractor supervision charges on material	5.00%	42215
7	Insurance , Labour & Finance Cost	3.00%	25329
	Service Cost		257510
	Sub-Total		1101805
8	Turnkey Charges	5.00%	55090

Total **1156895**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1469242	1156895
Total Cost of the Estimate	1469242	1156895

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Item Code No. 1107					
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station 22/0.433 kv, 200 KVA to 22/0.433 kv, 630 KVA with MCCB					
Sr.No	Description of Material	Unit	Qty	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 630 KVA, 22/0.43 kv	No.	1	682480.00	682480.00
2	8 way feeder pillar with ACB	No.	1	64190.00	64190.00
3	8 way feeder pillar with ACB	No.	1	64190.00	64190.00
4	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	725.00	32625.00
5	Sundries	LS	1	810.00	810.00
Cost of Material					844295.00

1	Transportation on material	4.00%	33772
2	T&P on material cost	1.00%	8443
3	Contingencies on material	2.50%	21107
5	Erection cost on material	15.00%	126644
6	Contractor supervision charges on material	5.00%	42215
7	Insurance , Labour & Finance Cost	3.00%	25329
	Service Cost		257510
	Sub-Total		1101805
8	Turnkey Charges	5.00%	55090



Total

1156895

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1469242	1156895
Total Cost of the Estimate	1469242	1156895

Item Code No. 1108

Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station 22/0.433 kv, 100/200/315 KVA to 22/0.433 kv, 630 KVA on plinth

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 630 KVA, 22/0.43 kv	No.	1	682480.00	682480.00
2	8 way feeder pillar with ACB	No.	1	64190.00	64190.00
3	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	725.00	32625.00
4	Sundries	LS	1	810.00	810.00
5	22 KV Lightning Arrestors (Screw type)	Set	1	8568.00	8568.00
6	Earthing Replenishment for DTC	Set	1	12511.00	12511.00

Cost of Material 801184.00

1	Transportation on material	4.00%	32047
2	T&P on material cost	1.00%	8012
3	Contingencies on material	2.50%	20030
5	Erection cost on material	15.00%	120178
6	Contractor supervision charges on material	5.00%	40059
7	Insurance , Labour & Finance Cost	3.00%	24036

Service Cost 244361

Sub-Total 1045545

8	Turnkey Charges	5.00%	52277
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Total 1097822

Concreting ration 1:3:6 10.25 3027.00 31027

Total Cost of Estimate 1128849

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1394220	1097822
Concreting ration 1:3:6	31027	31027
Total Cost of the Estimate	1425247	1128849

Item Code No. 1109

Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station 22/0.433 kv, 100 KVA to 22/0.433 kv, 200 KVA with Kit Kat DB (Rural)

Sr.No	Description of Material	Unit	Qty.	RT/U.Rs.	Amount (Rs.)
1	Dist.transformer 200kva,22/0.4kv	No.	1.00	306520.00	306520.00
2	L.T.Dist.Boxes 200 KVA with KitKat	No.	1.00	23400.00	23400.00
3	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	25.00	329.00	8225.00
4	L.T. XLPE cable 3.5 Core 240 mm2	Rmt	10.00	628.00	6280.00
5	Sundries	LS	1.00	810.00	810.00

Cost of material 345235.00

1	Transportation on material	4.00%	13809
2	T&P on material cost	1.00%	3452
3	Contingencies on material	2.50%	8631
5	Erection cost on material	15.00%	51785
6	Contractor supervision charges on material	5.00%	17262
7	Insurance , Labour & Finance Cost	3.00%	10357

Service Cost 105297

Sub-Total 450532

8	Turnkey Charges	5.00%	22527
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Total 473058

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Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	600778	473058
Total Cost of the Estimate	600778	473058

Item Code No. 1201					
POLE MOUNTED DISTRIBUTION TRANSFORMER SUB-STATION, 25 KVA, 11/0.433 KV ON RSJ POLE with MCCB Dist.Box					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	11 / .433 KV 25 KVA Transformer	No.	1	47113.00	47113.00
2	RSJ 116x100, 9 m long	No	2	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	kg.	44	51.80	2279.20
5	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
7	11 kV Pin Insulators with G.I. Pins	NO.	3	135.00	405.00
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	322.00	966.00
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	12270.00	12270.00
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1268.00	1268.00
11	H.T.Stay Set	No	4	598.00	2392.00
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
13	Earthing Sets H.T	No.	3	342.00	1026.00
14	11KV H.G.Fuses	Set.	1	1964.00	1964.00
	11KV A.B. Switch, 400 A	No.	1	9240.00	9240.00
15	Danger Board in yard.	No.	2	50.00	100.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
17	G.I.Barbed Wire 'A' type.	kg.	15	64.27	964.05
18	Concreting ration 1:3:6	CMT.	2	3027.00	6054.00
19	Painting/Hardware & support with numbering of pole	L.S.	1	225.00	225.00
20	DTC Metring with Box, single core L.T. XLPE cable (16 sq.mm., 120 mtr length) and other allied material.	No.	1	7514.00	7514.00
21	Sundries	L.S.	1	810.00	810.00

Cost of material **123453.10**

1	Transportation on material	4.00%	4938
2	T&P on material cost	1.00%	1235
3	Contingencies on material	2.50%	3086
5	Erection cost on material	15.00%	18518
6	Contractor supervision charges on material	5.00%	6173
7	Insurance , Labour & Finance Cost	3.00%	3704

Service Cost **37653**

8	Turnkey Charges	5.00%	8055
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Total **169162**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	214833	169162
Total Cost of the Estimate	214833	169162

Item Code No. 1202					
POLE MOUNTED DISTRIBUTION TRANSFORMER SUB-STATION 63KVA, 11/0.433 KV ON 9 mtr RSJ POLE					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Dist. transformer 63kva,11/.4kv	No.	1	86216.00	86216.00
2	RSJ 116x100, 9 m long	No	2	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	kg.	44	51.80	2279.20
5	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
7	11 kV Pin Insulators with G.I. Pins	NO.	3	135.00	405.00
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	322.00	966.00
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	12270.00	12270.00
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1268.00	1268.00



11	H.T.Stay Set	No	4	598.00	2392.00
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
13	Earthing Sets H.T	No.	3	342.00	1026.00
14	11KV H.G.Fuses	Set.	1	1964.00	1964.00
	11KV A.B. Switch, 400 A	No.	1	9240.00	9240.00
15	Danger Board in yard.	No.	2	50.00	100.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
17	G.I.Barbed Wire 'A' type.	kg.	15	64.27	964.05
18	Concreting ration 1:3:6	CMT.	2	3027.00	6054.00
19	Painting/Hardware & support with numbering of pole	L.S.	1	225.00	225.00
20	DTC Metring with Box, single core L.T. XLPE cable (35 sq.mm., 120 mtr length) and other allied material.	No.	1	7514.00	7514.00
21	Sundries	L.S.	1	810.00	810.00

Cost of material **162556.10**

1	Transportation on material	4.00%	6502
2	T&P on material cost	1.00%	1626
3	Contingencies on material	2.50%	4064
5	Erection cost on material	15.00%	24383
6	Contractor supervision charges on material	5.00%	8128
7	Insurance , Labour & Finance Cost	3.00%	4877
	Service Cost		49580
	Sub-Total		212136
8	Turnkey Charges	5.00%	10607
	Total		222742
8	Turnkey Charges	5.00%	0
	Total		0
8	Contractor profit on services @ 4% i.e. 0.9% of material (C)	0.90%	1463.00

Total Cost (A+B+C) **168895.79**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	282880	222742
Total Cost of the Estimate	282880	222742

Item Code No. 1203					
POLE MOUNTED DISTRIBUTION TRANSFORMER SUB-STATION 100KVA, 11/0.433 KV ON 9 mtr RSJ POLE					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
2	RSJ 116x100, 9 m long	No	2	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	kg.	44	51.80	2279.20
5	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
7	11 kV Pin Insulators with G.I. Pins	NO.	3	135.00	405.00
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	322.00	966.00
9	L.T.Dist.Boxes 100 KVA with MCCB	No.	1	12822.00	12822.00
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1268.00	1268.00
11	H.T.Stay Set	No	4	598.00	2392.00
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
13	Earthing Sets H.T	No.	3	342.00	1026.00
14	11KV H.G.Fuses	Set.	1	1964.00	1964.00
	11KV A.B. Switch, 400 A	No.	1	9240.00	9240.00
15	Danger Board in yard.	No.	2	50.00	100.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
17	G.I.Barbed Wire 'A' type.	kg.	15	64.27	964.05
18	Concreting ration 1:3:6	CMT.	2	3027.00	6054.00
19	Painting/Hardware & support with numbering of pole	L.S.	1	225.00	225.00
20	Sundries	L.S.	1	810.00	810.00
21	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	No.	1	7529.20	7529.20

Cost of material **189677.30**



1	Transportation on material	4.00%	7587
2	T&P on material cost	1.00%	1897
3	Contingencies on material	2.50%	4742
5	Erection cost on material	15.00%	28452
6	Contractor supervision charges on material	5.00%	9484
7	Insurance , Labour & Finance Cost	3.00%	5690
	Service Cost		57852
	Sub-Total		247529
8	Turnkey Charges	5.00%	12376

Total **259905**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	330076	259905
Total Cost of the Estimate	330076	259905

Item Code No. 1204					
11 KV ,200 KVA Dist. Transformer centers on 100x116mm, 9 mtrs RSJ poles with MCCB Dist box.					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 200 KVA, 11/0.43 kv	No.	1	195137.00	195137.00
2	RSJ 116x100, 9 m long	No.	2	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg.	124	51.80	6423.20
4	M.S.Channel 75x40x6 mm	Kg.	100	51.80	5180.00
5	MS angle 50x50x6 mm	Kg.	86	51.80	4454.80
6	M.S. Flats(50 X 10mm)	Kg.	56	48.50	2716.00
7	11 kV Pin Insulators with G.I. Pins	No.	3	135.00	405.00
8	Disc Insulator 11 KV 45 KN	No.	3	244.00	732.00
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	L.T.Dist.Boxes 200 KVA with MCCB	No.	1	24768.00	24768.00
11	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
12	H.T.Stay Set	No.	2	598.00	1196.00
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	57.45	919.20
14	Earthing Sets H.T	No.	5	342.00	1710.00
15	11KV H.G.Fuses	Set	1	1964.00	1964.00
16	11KV A.B. Switch, 400 A	No.	1	9240.00	9240.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
19	G.I.Barbed Wire 'A' type.	Kg.	10	64.27	642.70
20	Concreting ration 1:3:6	Cmt.	2.3	3027.00	6962.10
21	Painting of Supports & fabricated materials	LS	2	155.00	310.00
22	Sundries	LS	1	810.00	810.00
23	DTC Metring with Box, single core L.T. XLPE cable (185 sq.mm., 200 mtr length) and other allied material.	No.	1	7613.00	7613.00
	Minor Fabrication, etc.				
Cost of material					294150.20

1	Transportation on material	4.00%	11766
2	T&P on material cost	1.00%	2942
3	Contingencies on material	2.50%	7354
5	Erection cost on material	15.00%	44123
6	Contractor supervision charges on material	5.00%	14708
7	Insurance , Labour & Finance Cost	3.00%	8825
	Service Cost		89716
	Sub-Total		383866
8	Turnkey Charges	5.00%	19193

Total **403059**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	511880	403059



Total Cost of the Estimate	511880	403059
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Item Code No. 1205

Cost data for Pole mounted Distribution Transformer Sub-station 200 KVA, 11/0.433 kv.

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 200 KVA, 11/0.43 kv	No.	1	195137.00	195137.00
2	RSJ 116x100, 11 m long	No.	2	11311.00	22622.00
3	MS Channel 100x50x6 mm	Kg.	124	51.80	6423.20
4	M.S.Channel 75x40x6 mm	Kg.	100	51.80	5180.00
5	MS angle 50x50x6 mm	Kg.	86	51.80	4454.80
6	M.S. Flats(50 X 10mm)	Kg.	56	48.50	2716.00
7	11 kV Pin Insulators with G.I. Pins	No.	3	135.00	405.00
8	Disc Insulator 11 KV 45 KN	No.	3	244.00	732.00
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	L.T.Dist.Boxes 200 KVA with MCCB	No.	1	24768.00	24768.00
11	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
12	H.T.Stay Set	No.	2	598.00	1196.00
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	57.45	919.20
14	Earthing Sets H.T	No.	5	342.00	1710.00
15	11KV H.G.Fuses	Set	1	1964.00	1964.00
16	11KV A.B. Switch, 400 A	No.	1	9240.00	9240.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
19	G.I.Barbed Wire 'A' type.	Kg.	10	64.27	642.70
20	Concreting ration 1:3:6	Cmt.	2.3	3027.00	6962.10
21	Painting of Supports & fabricated materials	LS	1	155.00	155.00
22	Sundries	LS	1	810.00	810.00
23	DTC Metring with Box, single core L.T. XLPE cable (185 sq.mm., 200 mtr length) and other allied material.	No.	1	7613.00	7613.00
	Minor Fabrication, etc.				

Cost of material **298109.20**

1	Transportation on material	4.00%	11924
2	T&P on material cost	1.00%	2981
3	Contingencies on material	2.50%	7453
5	Erection cost on material	15.00%	44716
6	Contractor supervision charges on material	5.00%	14905
7	Insurance , Labour & Finance Cost	3.00%	8943
	Service Cost		90923
	Sub-Total		389033
8	Turnkey Charges	5.00%	19452

Total **408484**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	518770	408484
Total Cost of the Estimate	518770	408484

Item Code No. 1206

Cost data for Pole mounted Distribution Transformer Sub-station 315 KVA, 11/0.433 kv.

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 315 KVA, 11/0.43 kv	No.	1	433900.00	433900.00
2	RSJ 116x100, 11 m long	No.	2	11311.00	22622.00
3	MS Channel 100x50x6 mm	Kg.	124	51.80	6423.20
4	M.S.Channel 75x40x6 mm	Kg.	100	51.80	5180.00
5	MS angle 50x50x6 mm	Kg.	86	51.80	4454.80
6	M.S. Flats(50 X 10mm)	Kg.	56	48.50	2716.00
7	11 kV Pin Insulators with G.I. Pins	No.	3	135.00	405.00
8	Disc Insulator 11 KV 45 KN	No.	3	244.00	732.00
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	6 way feeder pillar with ACB	No.	1	61963.00	61963.00
11	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
12	H.T.Stay Set	No.	2	598.00	1196.00
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	57.45	919.20



14	Earthing Sets H.T	No.	5	342.00	1710.00
15	11KV H.G.Fuses	Set	1	1964.00	1964.00
16	11KV A.B. Switch, 400 A	No.	1	9240.00	9240.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
19	G.I.Barbed Wire 'A' type.	Kg.	10	64.27	642.70
20	Concreting ration 1:3:6	Cmt.	2.3	3027.00	6962.10
21	Painting of Supports & fabricated materials	LS	2	155.00	310.00
22	Sundries	LS	1	810.00	810.00
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	1	7676.00	7676.00
	Minor Fabrication, etc.				

Cost of material **574285.20**

1	Transportation on material	4.00%	22971
2	T&P on material cost	1.00%	5743
3	Contingencies on material	2.50%	14357
5	Erection cost on material	15.00%	86143
6	Contractor supervision charges on material	5.00%	28714
7	Insurance , Labour & Finance Cost	3.00%	17229

Service Cost **175157**

Sub-Total **749442**

8	Turnkey Charges	5.00%	37472
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Total **786914**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	999371	786914
Total Cost of the Estimate	999371	786914

Item Code No. 1207					
Cost data for Pole mounted Distribution Transformer Sub-station 315 KVA, 11/0.433 kv.					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 315 KVA, 11/0.43 kv	No.	1	433900.00	433900.00
2	RSJ 116x100, 11 m long	No.	2	11311.00	22622.00
3	MS Channel 100x50x6 mm	Kg.	124	51.80	6423.20
4	M.S.Channel 75x40x6 mm	Kg.	100	51.80	5180.00
5	MS angle 50x50x6 mm	Kg.	86	51.80	4454.80
6	M.S. Flats(50 X 10mm)	Kg.	56	48.50	2716.00
7	11 kv Pin Insulators with G.I. Pins	No.	3	135.00	405.00
8	Disc Insulator 11 KV 45 KN	No.	3	244.00	732.00
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	6 way feeder pillar with ACB	No.	1	61963.00	61963.00
11	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
12	H.T.Stay Set	No.	2	598.00	1196.00
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	57.45	919.20
14	Earthing Sets H.T	No.	5	342.00	1710.00
15	11KV H.G.Fuses	Set	1	1964.00	1964.00
16	11KV A.B. Switch, 400 A	No.	1	9240.00	9240.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
19	G.I.Barbed Wire 'A' type.	Kg.	10	64.27	642.70
20	Concreting ration 1:3:6	Cmt.	2.3	3027.00	6962.10
21	Painting of Supports & fabricated materials	LS	1	155.00	155.00
22	Sundries	LS	1	810.00	810.00
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	1	7676.00	7676.00
	Minor Fabrication, etc.				

Cost of material **574130.20**

1	Transportation on material	4.00%	22965
2	T&P on material cost	1.00%	5741
3	Contingencies on material	2.50%	14353



5	Erection cost on material	15.00%	86120
6	Contractor supervision charges on material	5.00%	28707
7	Insurance , Labour & Finance Cost	3.00%	17224
	Service Cost		175110
	Sub-Total		749240
8	Turnkey Charges	5.00%	37462

Total **786702**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	999101	786702
Total Cost of the Estimate	999101	786702

Item Code No. 1208

Cost data for Plinth mounted Distribution Transformer Sub-station 630 KVA, 11/0.433 kv.

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 630 KVA, 11/0.43 kv	No.	1	619767.00	619767.00
2	RSJ 116x100, 9 m long	No.	2	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg.	180	51.80	9324.00
4	M.S.Channel 75x40x6 mm	Kg.	150	51.80	7770.00
5	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
6	M.S. Flats(50 X 10mm)	Kg.	75	48.50	3637.50
7	11 kV Pin Insulators with G.I. Pins	No.	3	135.00	405.00
8	Disc Insulator 11 KV 45 KN	No.	6	244.00	1464.00
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	8 way feeder pillar with ACB	No.	1	64190.00	64190.00
11	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
12	H.T.Stay Set	No.	2	598.00	1196.00
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	24	57.45	1378.80
14	Earthing Sets H.T	No.	5	342.00	1710.00
15	11KV H.G.Fuses	Set	1	1964.00	1964.00
	11KV A.B. Switch, 400 A	No	1	9240.00	9240.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
19	G.I.Barbed Wire 'A' type.	Kg.	10	64.27	642.70
20	Concreting ration 1:3:6	Cmt.	10.25	3027.00	31026.75
21	Painting of Supports & fabricated materials	LS	1	155.00	155.00
22	Sundries	LS	1	810.00	810.00
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 630 KVA	No.	1	8076.00	8076.00

Cost of material **790903.95**

1	Transportation on material	4.00%	31636
2	T&P on material cost	1.00%	7909
3	Contingencies on material	2.50%	19773
5	Erection cost on material	15.00%	118636
6	Contractor supervision charges on material	5.00%	39545
7	Insurance , Labour & Finance Cost	3.00%	23727
	Service Cost		241226
	Sub-Total		1032130
8	Turnkey Charges	5.00%	51606

Total **1083736**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1376331	1083736
Total Cost of the Estimate	1376331	1083736

Item Code No. 1212



11 KV ,63 KVA Dist. Transformer centers on 9 mtrs 100 X 116 mm RSJ poles with Kit-kat Dist box.

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Dist. transformer 63kva,11/.4kv	No.	1	86216.00	86216.00
2	RSJ 116x100, 9 m long	No.	2	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	kg.	44	51.80	2279.20
5	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
7	11 kV Pin Insulators with G.I. Pins	NO.	3	135.00	405.00
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	322.00	966.00
9	L.T.Dist.Boxes 25/63 KVA with KITKAT	No.	1	10800.00	10800.00
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1268.00	1268.00
11	H.T.Stay Set	No	4	598.00	2392.00
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
13	Earthing Sets H.T	No.	3	342.00	1026.00
14	11KV H.G.Fuses	Set.	1	1964.00	1964.00
	11KV A.B. Switch, 400 A	No.	1	9240.00	9240.00
15	Danger Board in yard.	No.	2	50.00	100.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
17	G.I.Barbed Wire 'A' type.	kg.	15	64.27	964.05
18	Concreting ration 1:3:6	CMT.	2	3027.00	6054.00
19	Painting/Hardware & support with numbering of pole	L.S.	2	225.00	450.00
20	Sundries	L.S.	1	810.00	810.00
21	DTC Metring with Box, single core L.T. XLPE cable (35 sq.mm., 120 mtr length) and other allied material.	No.	1	7514.00	7514.00

Cost of material

161311.10

1	Transportation on material	4.00%	6452
2	T&P on material cost	1.00%	1613
3	Contigencies on material	2.50%	4033
5	Erection cost on material	15.00%	24197
6	Contractor supervision charges on material	5.00%	8066
7	Insurance , Labour & Finance Cost	3.00%	4839
	Service Cost		49200
	Sub-Total		210511
8	Turnkey Charges	5.00%	10526

Total

221037

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	280714	221037
Total Cost of the Estimate	280714	221037

Item Code No. 1213

11 KV ,100 KVA Dist. Transformer centers on 9 mtrs 100 X 116 mm RSJ poles with Kit-kat Dist box.

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
2	RSJ 116x100, 9 m long	No.	2	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	kg.	44	51.80	2279.20
5	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
7	11 kV Pin Insulators with G.I. Pins	NO.	3	135.00	405.00
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	322.00	966.00
9	L.T.Dist.Boxes 100 KVA with KITKAT	No.	1	11834.00	11834.00
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1268.00	1268.00
11	H.T.Stay Set	No	4	598.00	2392.00
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
13	Earthing Sets H.T	No.	3	342.00	1026.00
14	11KV H.G.Fuses	Set.	1	1964.00	1964.00
	11KV A.B. Switch, 400 A	No.	1	9240.00	9240.00
15	Danger Board in yard.	No.	2	50.00	100.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00



17	G.I.Barbed Wire 'A' type.	kg.	15	64.27	964.05
18	Concreting ration 1:3:6	CMT.	2	3027.00	6054.00
19	Painting/Hardware & support with numbering of pole	L.S.	2	225.00	450.00
20	Sundries	L.S.	1	810.00	810.00
21	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	No.	1	7529.20	7529.20

Cost of material **188914.30**

1	Transportation on material	4.00%	7557
2	T&P on material cost	1.00%	1889
3	Contingencies on material	2.50%	4723
5	Erection cost on material	15.00%	28337
6	Contractor supervision charges on material	5.00%	9446
7	Insurance , Labour & Finance Cost	3.00%	5667

Service Cost **57619**

Sub-Total **246533**

8	Turnkey Charges	5.00%	12327
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Total **258860**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	328749	258860
Total Cost of the Estimate	328749	258860

Item Code No. 1214

Cost data for Pole mounted Distribution Transformer Sub-station 315 KVA, 11/0.433 kv.

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 315 KVA, 11/0.43 kv	No.	1	433900.00	433900.00
2	RSJ 116x100, 9 m long	No.	2	9254.00	18508.00
3	G.I.Channel 100x50x6mm	Kg.	124	70.08	8689.92
4	G.I.Channel 75x40x6mm	Kg.	100	70.08	7008.00
5	G.I.Angle 50x50x6mm	Kg.	86	70.08	6026.88
6	G.I Flat 50x10 mm	Kg.	56	66.78	3739.68
7	11 kV Pin Insulators with G.I. Pins	No.	3	135.00	405.00
8	Disc Insulator 11 KV 45 KN	No.	3	244.00	732.00
9	Strain Hardware forWeasel/Squirrel	No.	3	179.00	537.00
10	6 way feeder pillar with ACB	No.	1	61963.00	61963.00
11	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
12	H.T.Stay Set	No.	2	598.00	1196.00
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	57.45	919.20
14	Earthing Sets H.T	No.	5	342.00	1710.00
15	11KV H.G.Fuses	Set	1	1964.00	1964.00
16	11KV A.B. Switch, 400 A	No.	1	9240.00	9240.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
19	G.I.Barbed Wire 'A' type.	Kg.	10	64.27	642.70
20	Concreting ration 1:3:6	Cmt.	2.3	3027.00	6962.10
21	Painting of Supports & fabricated materials	LS	1	155.00	155.00
22	Sundries	LS	1	810.00	810.00
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	1	7676.00	7676.00

Cost of Material **576823.68**

1	Transportation on material	4.00%	23073
2	T&P on material cost	1.00%	5768
3	Contingencies on material	2.50%	14421
5	Erection cost on material	15.00%	86524
6	Contractor supervision charges on material	5.00%	28841
7	Insurance , Labour & Finance Cost	3.00%	17305

Service Cost **175931**

Sub-Total **752755**

8	Turnkey Charges	5.00%	37638
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Total

790393

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1003789	790393
Total Cost of the Estimate	1003789	790393

Item Code No. 1215

POLE MOUNTED DISTRIBUTION TRANSFORMER SUB-STATION 63KVA, 11/0.433 KV ON 11 mtr RSJ POLE

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Dist. transformer 63kva,11/.4kv	No.	1	86216.00	86216.00
2	RSJ 116x100, 11 m long	No	2	11311.00	22622.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	kg.	44	51.80	2279.20
5	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
7	11 kV Pin Insulators with G.I. Pins	NO.	3	135.00	405.00
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	322.00	966.00
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	12270.00	12270.00
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1268.00	1268.00
11	H.T.Stay Set	No	4	598.00	2392.00
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
13	Earthing Sets H.T	No.	3	342.00	1026.00
14	11KV H.G.Fuses	Set.	1	1964.00	1964.00
	11KV A.B. Switch, 400 A	No.	1	9240.00	9240.00
15	Danger Board in yard.	No.	2	50.00	100.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
17	G.I.Barbed Wire 'A' type.	kg.	15	64.27	964.05
18	Concreting ration 1:3:6	CMT.	2	3027.00	6054.00
19	Painting/Hardware & support with numbering of pole	L.S.	1	225.00	225.00
20	DTC Metring with Box, single core L.T. XLPE cable (35 sq.mm., 120 mtr length) and other allied material.	No.	1	7514.00	7514.00
21	Sundries	L.S.	1	810.00	810.00

Cost of material

166670.10

1	Transportation on material	4.00%	6667
2	T&P on material cost	1.00%	1667
3	Contingencies on material	2.50%	4167
5	Erection cost on material	15.00%	25001
6	Contractor supervision charges on material	5.00%	8334
7	Insurance , Labour & Finance Cost	3.00%	5000
	Service Cost		50834
	Sub-Total		217504
8	Turnkey Charges	5.00%	10875

Total

228380

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	290039	228380
Total Cost of the Estimate	290039	228380

Item Code No. 1216

POLE MOUNTED DISTRIBUTION TRANSFORMER SUB-STATION 100KVA, 11/0.433 KV ON 11 mtr RSJ POLE

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
2	RSJ 116x100, 11 m long	No	2	11311.00	22622.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	kg.	44	51.80	2279.20
5	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
7	11 kV Pin Insulators with G.I. Pins	NO.	3	135.00	405.00



8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	322.00	966.00
9	L.T.Dist.Boxes 100 KVA with MCCB	No.	1	12822.00	12822.00
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1268.00	1268.00
11	H.T.Stay Set	No	4	598.00	2392.00
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
13	Earthing Sets H.T	No.	3	342.00	1026.00
14	11KV H.G.Fuses	Set.	1	1964.00	1964.00
	11KV A.B. Switch, 400 A	No.	1	9240.00	9240.00
15	Danger Board in yard.	No.	2	50.00	100.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
17	G.I.Barbed Wire 'A' type.	kg.	15	64.27	964.05
18	Concreting ration 1:3:6	CMT.	2	3027.00	6054.00
19	Painting/Hardware & support with numbering of pole	L.S.	1	225.00	225.00
20	Sundries	L.S.	1	810.00	810.00
21	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	No.	1	7529.20	7529.20

Cost of material

193791.30

1	Transportation on material	4.00%	7752
2	T&P on material cost	1.00%	1938
3	Contingencies on material	2.50%	4845
5	Erection cost on material	15.00%	29069
6	Contractor supervision charges on material	5.00%	9690
7	Insurance , Labour & Finance Cost	3.00%	5814

Service Cost

59106

Sub-Total

252898

8	Turnkey Charges	5.00%	12645
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Total

265543

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	337236	265543
Total Cost of the Estimate	337236	265543

Item Code No. 1217					
11/0.4 KV ,25 KVA Dist. Transformer centers on RSJ , 100 X 116 mm, 11 mtr with MCCB Dist box.					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	11 / .433 KV 25 KVA Transformer	No	1	47113.00	47113.00
2	RSJ 116x100, 11 m long	No	2	11311.00	22622.00
3	MS Channel 100x50x6 mm	Kg	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	Kg	80	51.80	4144.00
5	MS angle 50x50x6 mm	Kg	60	51.80	3108.00
6	M.S. Flats(50 X 10mm)	Kg	24	48.50	1164.00
7	11 kV Pin Insulators with G.I. Pins	No	3	135.00	405.00
8	Disc Insulator 11 KV 45 KN	No	3	244.00	732.00
9	Strain Hardware forWeasel/Squirrel	Set	3	179.00	537.00
10	L.T.Dist.Boxes 25/63 KVA with MCCB	No	1	12270.00	12270.00
11	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
12	H.T.Stay Set	Set	2	598.00	1196.00
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	57.45	919.20
14	Earthing Sets H.T	Set	5	342.00	1710.00
15	11KV H.G.Fuses	Set	1	1964.00	1964.00
16	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
17	Danger Board in yard.	No	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg	40	66.78	2671.20
19	G.I.Barbed Wire 'A' type.	Kg.	10	64.27	642.70
20	DTC Metring with Box, single core L.T. XLPE cable (16 sq.mm., 120 mtr length) and other allied material.	No	1	7514.00	7514.00
21	Painting of Supports & fabricated materials	LS	1	155.00	155.00
22	Sundries	LS	1	810.00	810.00

Cost of material

125465.10

1	Transportation on material	4.00%	5019
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2	T&P on material cost	1.00%	1255
3	Contingencies on material	2.50%	3137
5	Erection cost on material	15.00%	18820
6	Contractor supervision charges on material	5.00%	6273
7	Insurance , Labour & Finance Cost	3.00%	3764
	Service Cost		38267
	Sub-Total		163732
8	Turnkey Charges	5.00%	8187

Total **171919**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	218334	171919
Total Cost of the Estimate	218334	171919

Item Code No. 1218

11/0.4 KV ,25 KVA Dist. Transformer centers on RSJ , 100 X 116 mm, 9 mtr with Kitkat Dist box.

Sr.No	Description	Unit	Qty.	Rate	Amount
1	11 / .433 KV 25 KVA Transformer	No	1	47113.00	47113.00
2	RSJ 116x100, 9 m long	No	2	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	Kg	44	51.80	2279.20
5	MS angle 50x50x6 mm	Kg	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	Kg	24	48.50	1164.00
7	11 kV Pin Insulators with G.I. Pins	No	3	135.00	405.00
8	L.T.Dist.Boxes 25/63 KVA with KITKAT	No	1	10800.00	10800.00
9	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
10	H.T.Stay Set	Set	4	598.00	2392.00
11	Earthing Sets H.T	Set	5	342.00	1710.00
12	11KV H.G.Fuses	Set	1	1964.00	1964.00
13	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
14	Danger Board in yard.	No	2	50.00	100.00
15	Painting/Hardware & support with numbering of pole	LS	1	225.00	225.00
16	DTC Metring with Box, single core L.T. XLPE cable (16 sq.mm., 120 mtr length) and other allied material.	No	1	7514.00	7514.00
17	Sundries	LS	1	810.00	810.00

Cost of Material **111811.80**

1	Transportation on material	4.00%	4472
2	T&P on material cost	1.00%	1118
3	Contingencies on material	2.50%	2795
5	Erection cost on material	15.00%	16772
6	Contractor supervision charges on material	5.00%	5591
7	Insurance , Labour & Finance Cost	3.00%	3354
	Service Cost		34103
	Sub-Total		145914
8	Turnkey Charges	5.00%	7296

Total **153210**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	194575	153210
Total Cost of the Estimate	194575	153210

Item Code No. 1219

11/0.4 KV ,63 KVA Dist. Transformer centers on RSJ , 100 X 116 mm, 11 mtr with Kitkat Dist box.

Sr.No	Description	Unit	Qty.	Rate	Amount
1	Dist. transformer 63kva,11/.4kv	No	1	86216.00	86216.00
2	RSJ 116x100, 11 m long	No	2	11311.00	22622.00
3	MS Channel 100x50x6 mm	Kg	100	51.80	5180.00



4	M.S.Channel 75x40x6 mm	Kg	44	51.80	2279.20
5	MS angle 50x50x6 mm	Kg	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	Kg	24	48.50	1164.00
7	11 kV Pin Insulators with G.I. Pins	No	3	135.00	405.00
8	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	11834.00	11834.00
9	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
10	H.T.Stay Set	Set	4	598.00	2392.00
11	Earthing Sets H.T	Set	5	342.00	1710.00
12	11KV H.G.Fuses	Set	1	1964.00	1964.00
13	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
14	Danger Board in yard.	No	2	50.00	100.00
15	Painting/Hardware & support with numbering of pole	LS	1	225.00	225.00
16	DTC Metring with Box, single core L.T. XLPE cable (35 sq.mm., 120 mtr length) and other allied material.	No	1	7514.00	7514.00
17	Sundries	LS	1	810.00	810.00
Cost of Material					156062.80

1	Transportation on material	4.00%	6243
2	T&P on material cost	1.00%	1561
3	Contingencies on material	2.50%	3902
5	Erection cost on material	15.00%	23409
6	Contractor supervision charges on material	5.00%	7803
7	Insurance , Labour & Finance Cost	3.00%	4682
Service Cost			47599
Sub-Total			203662
8	Turnkey Charges	5.00%	10183

Total **213845**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	271580	213845
Total Cost of the Estimate	271580	213845

Item Code No. 1220					
11/0.4 KV ,100 KVA Dist. Transformer centers on RSJ , 100 X 116 mm, 11 mtr with Kitkat Dist box.					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	Dist. Transformer 100 KVA, 11/0.43 kv	No	1	112770.00	112770.00
2	RSJ 116x100, 11 m long	No	2	11311.00	22622.00
3	MS Channel 100x50x6 mm	Kg	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	Kg	44	51.80	2279.20
5	MS angle 50x50x6 mm	Kg	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	Kg	24	48.50	1164.00
7	11 kV Pin Insulators with G.I. Pins	No	3	135.00	405.00
8	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	11834.00	11834.00
9	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
10	H.T.Stay Set	Set	4	598.00	2392.00
11	Earthing Sets H.T	Set	5	342.00	1710.00
12	11KV H.G.Fuses	Set	1	1964.00	1964.00
13	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
14	Danger Board in yard.	No	2	50.00	100.00
15	Painting/Hardware & support with numbering of pole	LS	1	225.00	225.00
16	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	No	1	7529.20	7529.20
17	Sundries	LS	1	810.00	810.00
Cost of Material					182632.00

1	Transportation on material	4.00%	7305
2	T&P on material cost	1.00%	1826
3	Contingencies on material	2.50%	4566
5	Erection cost on material	15.00%	27395
6	Contractor supervision charges on material	5.00%	9132
7	Insurance , Labour & Finance Cost	3.00%	5479
Service Cost			55703



Sub-Total

238335

8 Turnkey Charges

5.00%

11917

Total

250251

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	317816	250251
Total Cost of the Estimate	317816	250251

Item Code No. 1221

Cost Data for 11/0.44 DTC new 1 X 630 KVA, Indoor type DTC with RMU

Sr.No	Particulars	Unit	Qty	Rate	Amount
1	Dist. Transformer 630 KVA, 11/0.43 kv	No.	1	619767.00	619767.00
2	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso + 1 Br	No.	1	349751.00	349751.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	15	592.00	8880.00
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	2	1169.00	2338.00
5	8 way feeder pillar with ACB	No.	1	64190.00	64190.00
6	Earthing with GI pipe	L.S.	4	291.00	1164.00
7	Earthing with GI plate	L.S.	4	1698.00	6792.00
8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 630 KVA	No.	1	8076.00	8076.00
9	Sundries	L.S.	1	810.00	810.00
Cost of Material					1061768.00

1	Transportation on material	4.00%	42471
2	T&P on material cost	1.00%	10618
3	Contingencies on material	2.50%	26544
5	Erection cost on material	15.00%	159265
6	Contractor supervision charges on material	5.00%	53088
7	Insurance , Labour & Finance Cost	3.00%	31853
Service Cost			323839
Sub-Total			1385607
8	Turnkey Charges	5.00%	69280

Total

1454888

9	Civil Works 20 Sq. Mtr	LS	1	284608.13	284608
Total Cost of Estimate					1739496

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1847689	1454888
Civil Works 20 Sq. Mtr	284608	284608
Total Cost of the Estimate	2132297	1739496

Item Code No. 1222

Cost Data for 11/0.44 DTC new 2 X 630 KVA, Indoor type DTC with RMU

Sr.No	Particulars	Unit	Qty	Rate	Amount
1	Dist. Transformer 630 KVA, 11/0.43 kv	No.	2	619767.00	1239534.00
2	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso + 1 Br	No.	1	349751.00	349751.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	30	592.00	17760.00
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	4	1169.00	4676.00
5	8 way feeder pillar with ACB	No.	2	64190.00	128380.00
6	Earthing with GI pipe	L.S.	8	291.00	2328.00
7	Earthing with GI plate	L.S.	8	1698.00	13584.00
8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 630 KVA	No.	2	8076.00	16152.00
9	Sundries	L.S.	2	810.00	1620.00



Cost of Material

1773785.00

1	Transportation on material	4.00%	70951
2	T&P on material cost	1.00%	17738
3	Contingencies on material	2.50%	44345
5	Erection cost on material	15.00%	266068
6	Contractor supervision charges on material	5.00%	88689
7	Insurance , Labour & Finance Cost	3.00%	53214
	Service Cost		541004
	Sub-Total		2314789
8	Turnkey Charges	5.00%	115739

Total

2430529

9	Civil Works 20 Sq. Mtr	LS	2	284608.13	569216
	Total Cost of Estimate				2999745

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	3086741	2430529
Civil Works 20 Sq. Mtr	569216	569216
Total Cost of the Estimate	3655957	2999745

Item Code No. 1223

Cost Data for 11/0.44 DTC Additional 1 X 630 KVA, Indoor type DTC with RMU without room

Sr.No	Particulars	Unit	Qty	Rate	Amount
1	Dist. Transformer 630 KVA, 11/0.43 kv	No.	1	619767.00	619767.00
2	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso + 1 Br	No.	1	349751.00	349751.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	15	592.00	8880.00
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	2	1169.00	2338.00
5	8 way feeder pillar with ACB	No.	1	64190.00	64190.00
6	Earthing with GI pipe	L.S.	4	291.00	1164.00
7	Earthing with GI plate	L.S.	4	1698.00	6792.00
8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 630 KVA	No.	1	8076.00	8076.00
9	Sundries	L.S.	1	810.00	810.00

Cost of Material

1061768.00

1	Transportation on material	4.00%	42471
2	T&P on material cost	1.00%	10618
3	Contingencies on material	2.50%	26544
5	Erection cost on material	15.00%	159265
6	Contractor supervision charges on material	5.00%	53088
7	Insurance , Labour & Finance Cost	3.00%	31853
	Service Cost		323839
	Sub-Total		1385607
8	Turnkey Charges	5.00%	69280

Total

1454888

9	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	L.S.	1	23907.23	23907
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Total Cost of Estimate

1478795

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1847689	1454888
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	23907	23907
Total Cost of the Estimate	1871596	1478795



Item Code No. 1224

Cost Data for 11/0.44 DTC Additional 2 X 630 KVA, Indoor type DTC with RMU without room

Sr.No	Particulars	Unit	Qty	Rate	Amount
1	Dist. Transformer 630 KVA, 11/0.43 kv	No.	2	619767.00	1239534.00
2	11 kv SF6, Motorized, SCADA Compatible RMU 2 Iso + 2 Br	No.	1	492900.00	492900.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	30	592.00	17760.00
4	11 kv heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	4	1169.00	4676.00
5	8 way feeder pillar with ACB	No.	2	64190.00	128380.00
6	Earthing with GI pipe	L.S.	8	291.00	2328.00
7	Earthing with GI plate	L.S.	8	1698.00	13584.00
8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 630 KVA	No.	2	8076.00	16152.00
9	Sundries	L.S.	2	810.00	1620.00

Cost of Material **1916934.00**

1	Transportation on material	4.00%	76677
2	T&P on material cost	1.00%	19169
3	Contingencies on material	2.50%	47923
5	Erection cost on material	15.00%	287540
6	Contractor supervision charges on material	5.00%	95847
7	Insurance , Labour & Finance Cost	3.00%	57508

Service Cost **584665**

Sub-Total **2501599**

8	Turnkey Charges	5.00%	125080
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Total **2626679**

9	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	L.S.	2	23907.23	47814
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Total Cost of Estimate **2674493**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	3335849	2626679
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	47814	47814
Total Cost of the Estimate	3383663	2674493

Item Code No. 1225

Cost Data for 11/0.44 DTC Additional 1 X 315 KVA, Indoor type DTC with RMU without room

Sr.No	Particulars	Unit	Qty	Rate	Amount
1	Dist. Transformer 315 KVA, 11/0.43 kv	No.	1	433900.00	433900.00
2	11 kv SF6, Motorized, SCADA Compatible RMU 2 Iso + 1 Br	No.	1	349751.00	349751.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	15	592.00	8880.00
4	11 kv heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	2	1169.00	2338.00
5	6 way feeder pillar with ACB	No.	1	61963.00	61963.00
6	Earthing with GI pipe	L.S.	4	291.00	1164.00
7	Earthing with GI plate	L.S.	4	1698.00	6792.00
8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	1	7676.00	7676.00
9	Sundries	L.S.	1	810.00	810.00

Cost of Material **873274.00**

1	Transportation on material	4.00%	34931
2	T&P on material cost	1.00%	8733
3	Contingencies on material	2.50%	21832
5	Erection cost on material	15.00%	130991
6	Contractor supervision charges on material	5.00%	43664
7	Insurance , Labour & Finance Cost	3.00%	26198

Service Cost **266349**

Sub-Total **1139623**

8	Turnkey Charges	5.00%	56981
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Total

1196604

9 Civil Works - Foundation Structure for Feeder Pillar, RMU & L.S. Transformer 2 23907.23 47814

Total Cost of Estimate

1244418

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1519671	1196604
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	47814	47814
Total Cost of the Estimate	1567486	1244418

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Item Code No. 1226					
Cost Data for 11/0.44 DTC Additional 2 X 315 KVA, Indoor type DTC with RMU without room					
Sr.No	Particulars	Unit	Qty	Rate	Amount
1	Dist. Transformer 315 KVA, 11/0.43 kv	No.	2	433900.00	867800.00
2	11 kv SF6, Motorized, SCADA Compatible RMU 2 Iso + 2 Br	No.	1	492900.00	492900.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	30	592.00	17760.00
4	11 kv heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	4	1169.00	4676.00
5	6 way feeder pillar with ACB	No.	2	61963.00	123926.00
6	Earthing with GI pipe	L.S.	8	291.00	2328.00
7	Earthing with GI plate	L.S.	8	1698.00	13584.00
8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	2	7676.00	15352.00
9	Sundries	L.S.	2	810.00	1620.00

Cost of Material

1539946.00

1	Transportation on material	4.00%	61598
2	T&P on material cost	1.00%	15399
3	Contingencies on material	2.50%	38499
5	Erection cost on material	15.00%	230992
6	Contractor supervision charges on material	5.00%	76997
7	Insurance , Labour & Finance Cost	3.00%	46198

Service Cost

469684

Sub-Total

2009630

8	Turnkey Charges	5.00%	100481
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Total

2110111

9 Civil Works - Foundation Structure for Feeder Pillar, RMU & L.S. Transformer 2 23907.23 47814

Total Cost of Estimate

2157925

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	2679814	2110111
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	47814	47814
Total Cost of the Estimate	2727628	2157925

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Item Code No. 1227					
Cost Data for 11/0.44 DTC new 315 KVA, Indoor type DTC with RMU					
Sr.No	Particulars	Unit	Qty	Rate	Amount
1	Dist. Transformer 315 KVA, 11/0.43 kv	No.	1	433900.00	433900.00
2	11 kv SF6, Motorized, SCADA Compatible RMU 2 Iso + 1 Br	No.	1	349751.00	349751.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	15	592.00	8880.00
4	11 kv heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	2	1169.00	2338.00
5	6 way feeder pillar with ACB	No.	1	61963.00	61963.00
6	Earthing with GI pipe	L.S.	4	291.00	1164.00
7	Earthing with GI plate	L.S.	4	1698.00	6792.00



8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	L.S.	1 Set	7676.00	7676.00
9	Sundries	L.S.	1	810.00	810.00

Cost of Material 873274.00

1	Transportation on material	4.00%	34931
2	T&P on material cost	1.00%	8733
3	Contingencies on material	2.50%	21832
5	Erection cost on material	15.00%	130991
6	Contractor supervision charges on material	5.00%	43664
7	Insurance , Labour & Finance Cost	3.00%	26198

Service Cost 266349

Sub-Total 1139623

8	Turnkey Charges	5.00%	56981
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Total 1196604

9	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	L.S.	1	23907.23	23907
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Total Cost of Estimate 1220511

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1519671	1196604
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	23907	23907
Total Cost of the Estimate	1543579	1220511

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Item Code No. 1228
Cost Data for 11/0.44 DTC new 630 KVA, Indoor type DTC with RMU

Sr.No	Particulars	Unit	Qty	Rate	Amount
1	Dist. Transformer 630 KVA, 11/0.43 kv	No.	1	619767.00	619767.00
2	11 kv SF6, Motorized, SCADA Compatible RMU 2 Iso + 1 Br	No.	1	349751.00	349751.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	15	592.00	8880.00
4	11 kv heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	2	1169.00	2338.00
5	8 way feeder pillar with ACB	No.	1	64190.00	64190.00
6	Earthing with GI pipe	L.S.	4	291.00	1164.00
7	Earthing with GI plate	L.S.	4	1698.00	6792.00
8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 630 KVA	L.S.	1 Set	8076.00	8076.00
9	Sundries	L.S.	1	810.00	810.00

Cost of Material 1061768.00

1	Transportation on material	4.00%	42471
2	T&P on material cost	1.00%	10618
3	Contingencies on material	2.50%	26544
5	Erection cost on material	15.00%	159265
6	Contractor supervision charges on material	5.00%	53088
7	Insurance , Labour & Finance Cost	3.00%	31853

Service Cost 323839

Sub-Total 1385607

8	Turnkey Charges	5.00%	69280
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Total 1454888

9	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	L.S.	1	23907.23	23907
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Total Cost of Estimate 1478795

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1847689	1454888



Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	23907	23907
Total Cost of the Estimate	1871596	1478795

Item Code No. 1229					
Cost Data for 11/0.44 DTC new 995 KVA, Indoor type DTC with RMU					
Sr.No	Particulars	Unit	Qty	Rate	Amount
1	Dist. Transformer 995 KVA, 11/0.4 kv	No.	1	869654.00	869654.00
2	11 kv SF6, Motorized, SCADA Compatible RMU 2 Iso + 1 Br	No.	1	349751.00	349751.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	15	592.00	8880.00
4	11 kv heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	2	1169.00	2338.00
5	8 way feeder pillar with ACB	No.	1	64190.00	64190.00
6	Earthing with GI pipe	L.S.	4	291.00	1164.00
7	Earthing with GI plate	L.S.	4	1698.00	6792.00
8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 995 KVA	L.S.	1 Set	8476.00	8476.00
9	Sundries	L.S.	1	810.00	810.00
Cost of Material					1312055.00

1	Transportation on material	4.00%	52482
2	T&P on material cost	1.00%	13121
3	Contingencies on material	2.50%	32801
5	Erection cost on material	15.00%	196808
6	Contractor supervision charges on material	5.00%	65603
7	Insurance , Labour & Finance Cost	3.00%	39362
Service Cost			400177
Sub-Total			1712232
8	Turnkey Charges	5.00%	85612

Total			1797843		
9	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	L.S.	1	23907.23	23907
Total Cost of Estimate			1821751		

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	2283238	1797843
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	23907	23907
Total Cost of the Estimate	2307145	1821751

Item Code No. 1301					
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station to 11/0.433 kv 100 KVA					
Sr.No	Description of Material	Unit	Qty.	RT/UNIT(RS)	Amount (Rs.)
1	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
2	L.T.Dist.Boxes 100 KVA with MCCB	No.	1	12822.00	12822.00
3	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt	25	204.00	5100.00
4	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	10	329.00	3290.00
5	Sundries	no	1	810.00	810.00
Cost of material					134792.00

1	Transportation on material	4.00%	5392
2	T&P on material cost	1.00%	1348
3	Contingencies on material	2.50%	3370
5	Erection cost on material	15.00%	20219
6	Contractor supervision charges on material	5.00%	6740
7	Insurance , Labour & Finance Cost	3.00%	4044
Service Cost			41112
Sub-Total			175904
8	Turnkey Charges	5.00%	8795

Total			184699
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Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	234565	184699
Total Cost of the Estimate	234565	184699

Item Code No. 1302					
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station 11/0.433 KV 100 KVA to 11/0.433 kv 200 KVA					
Sr.No	Description of Material	Unit	Qty.	RT/UNIT(RS)	Amount (Rs.)
1	Dist. Transformer 200 KVA, 11/0.43 kv	No.	1.00	195137.00	195137.00
2	L.T.Dist.Boxes 200 KVA with MCCB	No.	1.000	24768.00	24768.00
3	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	25.00	329.00	8225.00
4	L.T. XLPE cable 3.5 Core 240 mm2	Rmt	10.00	628.00	6280.00
5	Sundries	no	1.00	810.00	810.00

Cost of material **235220.00**

1	Transportation on material	4.00%	9409
2	T&P on material cost	1.00%	2352
3	Contingencies on material	2.50%	5881
5	Erection cost on material	15.00%	35283
6	Contractor supervision charges on material	5.00%	11761
7	Insurance , Labour & Finance Cost	3.00%	7057
	Service Cost		71742
	Sub-Total		306962
8	Turnkey Charges	5.00%	15348

Total **322310**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	409330	322310
Total Cost of the Estimate	409330	322310

Item Code No. 1303					
Cost Data for Augmentation of Distribution Transformer Sub-station 11/0.433 kv, 100 KVA to 11/0.433 kv, 315 KVA - Indoor					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 315 KVA, 11/0.43 kv	No.	1	433900.00	433900.00
2	8 way feeder pillar with ACB	No.	1	64190.00	64190.00
3	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	725.00	32625.00
4	Sundries	LS	1	810.00	810.00

Cost of Material **531525.00**

1	Transportation on material	4.00%	21261
2	T&P on material cost	1.00%	5315
3	Contingencies on material	2.50%	13288
5	Erection cost on material	15.00%	79729
6	Contractor supervision charges on material	5.00%	26576
7	Insurance , Labour & Finance Cost	3.00%	15946
	Service Cost		162115
	Sub-Total		693640
8	Turnkey Charges	5.00%	34682

Total **728322**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	924960	728322
Total Cost of the Estimate	924960	728322



Item Code No. 1304
Cost Data for Augmentation of Distribution Transformer Sub-station 11/0.433 kv, 200 KVA to 11/0.433 kv, 315 KVA - Indoor

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 315 KVA, 11/0.43 kv	No.	1	433900.00	433900.00
2	6 way feeder pillar with ACB	No.	1	61963.00	61963.00
3	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	725.00	32625.00
4	Sundries	LS	1	810.00	810.00

Cost of Material **529298.00**

1	Transportation on material	4.00%	21172
2	T&P on material cost	1.00%	5293
3	Contingencies on material	2.50%	13232
5	Erection cost on material	15.00%	79395
6	Contractor supervision charges on material	5.00%	26465
7	Insurance , Labour & Finance Cost	3.00%	15879

Service Cost **161436**

Sub-Total **690734**

8	Turnkey Charges	5.00%	34537
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Total **725271**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	921084	725271
Total Cost of the Estimate	921084	725271

Item Code No. 1305
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station 11/0.433 kv, 200 KVA to 11/0.433 kv, 630 KVA

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 630 KVA, 11/0.43 kv	No.	1	619767.00	619767.00
2	8 way feeder pillar with ACB	No.	1	64190.00	64190.00
3	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	725.00	32625.00
4	Sundries	LS	1	810.00	810.00

Cost of Material **717392.00**

1	Transportation on material	4.00%	28696
2	T&P on material cost	1.00%	7174
3	Contingencies on material	2.50%	17935
5	Erection cost on material	15.00%	107609
6	Contractor supervision charges on material	5.00%	35870
7	Insurance , Labour & Finance Cost	3.00%	21522

Service Cost **218805**

Sub-Total **936197**

8	Turnkey Charges	5.00%	46810
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Total **983006**

9	Concreting ration 1:3:6	10.25	3027.00	31027
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Total Cost of Estimate **1014033**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1248406	983006
Concreting ration 1:3:6	31027	31027
Total Cost of the Estimate	1279432	1014033

Item Code No. 1306
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station 11/0.433 kv, 315 KVA to 11/0.433 kv, 630 KVA

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 630 KVA, 11/0.43 kv	No.	1	619767.00	619767.00
2	8 way feeder pillar with ACB	No.	1	64190.00	64190.00



3	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	725.00	32625.00
4	Sundries	LS	1	810.00	810.00

Cost of Material **717392.00**

1	Transportation on material	4.00%	28696
2	T&P on material cost	1.00%	7174
3	Contingencies on material	2.50%	17935
5	Erection cost on material	15.00%	107609
6	Contractor supervision charges on material	5.00%	35870
7	Insurance , Labour & Finance Cost	3.00%	21522

Service Cost **218805**

Sub-Total **936197**

8	Turnkey Charges	5.00%	46810
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Total **983006**

9	Concreting ration 1:3:6	10.25	3027.00	31027
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Total Cost of Estimate **1014033**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	1248406	983006
Concreting ration 1:3:6	31027	31027
Total Cost of the Estimate	1279432	1014033

Item Code No. 1307

Cost Data for Augumentation of existing DTC to 11/0.433 KV 100 KVA with rural KITKAT DB

Sr. No.	Description of Material	Unit	QTY	Rate/Unit	Rs.	Amount	Rs.
1	Dist. Transformer 100 KVA, 11/0.43 kv	No	1	112770.00		112770.00	
2	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	11834.00		11834.00	
3	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00		1268.00	
4	11KV A.B. Switch, 400 A	Set	1	9240.00		9240.00	
5	Danger Board in yard.	No	2	50.00		100.00	
6	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40		1435.00	
7	G.I.Barbed Wire 'A' type.	Kg.	150	64.27		9640.50	
8	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt	25	204.00		5100.00	
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	10	329.00		3290.00	
10	Painting/Hardware & support with numbering of pole	No	1	225.00		225.00	
11	Sundries	LS	1	810.00		810.00	

Cost of material **155712.50**

1	Transportation on material	4.00%	6229
2	T&P on material cost	1.00%	1557
3	Contingencies on material	2.50%	3893
5	Erection cost on material	15.00%	23357
6	Contractor supervision charges on material	5.00%	7786
7	Insurance , Labour & Finance Cost	3.00%	4671

Service Cost **47492**

Sub-Total **203205**

8	Turnkey Charges	5.00%	10160
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Total **213365**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	270971	213365
Total Cost of the Estimate	270971	213365

Item Code No. 1308

Cost Data for Augumentation of existing DTC to 11/0.433 KV 200 KVA with rural KITKAT DB



Sr. No.	Description of Material	Unit	QTY	Rate/Unit	Rs.	Amount	Rs.
1	Dist. Transformer 200 KVA, 11/0.43 kv	No	1	195137.00		195137.00	
2	L.T.Dist.Boxes 200 KVA with KitKat	No	1	23400.00		23400.00	
3	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00		1268.00	
4	11KV A.B. Switch, 400 A	Set	1	9240.00		9240.00	
5	Danger Board in yard.	No	2	50.00		100.00	
6	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40		1435.00	
7	G.I.Barbed Wire 'A' type.	Kg.	150	64.27		9640.50	
8	L.T.XLPE Armoured 3.5 Core cable 120 sq.mm.	Rmt	25	329.00		8225.00	
9	L.T. XLPE cable 3.5 Core 240 mm2	Rmt	10	628.00		6280.00	
10	Painting/Hardware & support with numbering of pole	No	1	225.00		225.00	
11	Sundries	LS	1	810.00		810.00	

Cost of material

255760.50

1	Transportation on material	4.00%	10230
2	T&P on material cost	1.00%	2558
3	Contingencies on material	2.50%	6394
5	Erection cost on material	15.00%	38364
6	Contractor supervision charges on material	5.00%	12788
7	Insurance, Labour & Finance Cost	3.00%	7673

Service Cost

78007

Sub-Total

333767

8	Turnkey Charges	5.00%	16688
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Total

350456

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	445074	350456
Total Cost of the Estimate	445074	350456

Item Code No. 1309

Cost Data for Augmentation of Indoor Distribution Transformer Sub-station 11/0.4 kv, 315 KVA to 11/0.4 kv, 630 KVA

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 630 KVA, 11/0.43 kv	No.	1	619767.00	619767.00
2	8 way feeder pillar with ACB	No.	1	64190.00	64190.00
3	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 630 KVA	L.S.	1 Set	8076.00	8076.00
4	Sundries	L.S.	1	810.00	810.00

Cost of Material

692843.00

1	Transportation on material	4.00%	27714
2	T&P on material cost	1.00%	6928
3	Contingencies on material	2.50%	17321
5	Erection cost on material	15.00%	103926
6	Contractor supervision charges on material	5.00%	34642
7	Insurance, Labour & Finance Cost	3.00%	20785

Service Cost

211317

Sub-Total

904160

8	Turnkey Charges	5.00%	45208
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Total

949368

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1205685	949368
Total Cost of the Estimate	1205685	949368

Item Code No. 1310

Cost Data for Augmentation of Indoor Distribution Transformer Sub-station 11/0.4 kv, 630 KVA to 11/0.4 kv, 995 KVA

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount (Rs.)
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1	Dist. Transformer 995 KVA, 11/0.4 kv	No.	1	869654.00	869654.00
2	8 way feeder pillar with ACB	No.	1	64190.00	64190.00
3	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 995 KVA	L.S.	1 Set	8476.00	8476.00
4	Sundries	L.S.	1	810.00	810.00

Cost of Material **943130.00**

1	Transportation on material	4.00%	37725
2	T&P on material cost	1.00%	9431
3	Contingencies on material	2.50%	23578
5	Erection cost on material	15.00%	141470
6	Contractor supervision charges on material	5.00%	47157
7	Insurance , Labour & Finance Cost	3.00%	28294

Service Cost **287655**

Sub-Total **1230785**

8	Turnkey Charges	5.00%	61539
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Total **1292324**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	1641235	1292324
Total Cost of the Estimate	1641235	1292324

Item Code No. 1401

L.T. LINE 3 ph 4 W. -WIND PRESSURE ZONE - With AAAC 55 sqmm for phase & ACSR Weasel for neutral with PSC Pole 8 Mtr (200 KG)

SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT(RS)	AMT.(RS)
1	PSC Pole 8 Mtr (200 KG)	No.	20	1980.00	39600.00
2	AAAC 55 mm2	Rmt	3200	28.56	91392.00
3	ACSR Weasel	Rmt	1100	18.50	20350.00
4	M.S.Flat 50 x 6 mm	Kg	24	48.50	1164.00
5	L.T.Shackle Insulator	No	72	10.00	720.00
6	L.T.Shackle hardware	Pair	96	37.00	3552.00
7	Jointing Sleeves for AAC	No	4	32.00	128.00
8	Aluminium Bobbins for neutral	No.	20	32.00	640.00
9	PG Clamp	No	6	27.00	162.00
10	Earthing Sets L.T.	No	5	166.00	830.00
11	L.T. Stay sets	No	8	472.00	3776.00
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	57.45	4136.40
13	Stay Insulators	No	8	10.00	80.00
14	Binding Wire	Kg.	1.5	70.00	105.00
15	Binding Tape	Kg	1.5	43.00	64.50
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	57.40	5740.00
17	Concreting ration 1:3:6	Cmt	2.4	3027.00	7264.80
18	L.T.Spacers	No	57	110.00	6270.00
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
20	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	114.00	3648.00
b)	GNAT To GNAT or equivalent AAAC	No	24	114.00	2736.00

Cost of material **195258.70**

1	Transportation on material	4.00%	7810
2	T&P on material cost	1.00%	1953
3	Contingencies on material	2.50%	4881
5	Erection cost on material	15.00%	29289
6	Contractor supervision charges on material	5.00%	9763
7	Insurance , Labour & Finance Cost	3.00%	5858

Service Cost **59554**

Sub-Total **254813**

8	Turnkey Charges	5.00%	12741
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Total **267553**

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Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	339789	267553
Total Cost of the Estimate	339789	267553

Item Code No. 1401A
L.T. LINE 3 ph 4 W. -WIND PRESSURE ZONE - With AAAC 55 sqmm for phase & ACSR Weasel for neutral with PSC Pole 8 Mtr (140 KG)

SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT(RS)	AMT.(RS)
1	PSC Pole 8 Mtr (140 KG)	No.	20	1650.00	33000.00
2	AAAC 55 mm2	Rmt	3200	28.56	91392.00
3	ACSR Weasel	Rmt	1100	18.50	20350.00
4	M.S.Flat 50 x 6 mm	Kg	24	48.50	1164.00
5	L.T.Shackle Insulator	No	72	10.00	720.00
6	L.T.Shackle hardware	Pair	96	37.00	3552.00
7	Aluminium Bobbins for neutral	No.	20	32.00	640.00
8	Jointing Sleeves for AAC	No	4	32.00	128.00
9	PG Clamp	No	6	27.00	162.00
10	Earthing Sets L.T.	No	5	166.00	830.00
11	L.T. Stay sets	No	8	472.00	3776.00
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	57.45	4136.40
13	Stay Insulators	No	8	10.00	80.00
14	Binding Wire	Kg.	1.5	70.00	105.00
15	Binding Tape	Kg	1.5	43.00	64.50
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	57.40	5740.00
17	Concreting ration 1:3:6	Cmt	2.4	3027.00	7264.80
18	L.T.Spacers	No	57	110.00	6270.00
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
20	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	114.00	3648.00
b)	GNAT To GNAT or equivalent AAAC	No	24	114.00	2736.00

Cost of material **188658.70**

1	Transportation on material	4.00%	7546
2	T&P on material cost	1.00%	1887
3	Contingencies on material	2.50%	4716
5	Erection cost on material	15.00%	28299
6	Contractor supervision charges on material	5.00%	9433
7	Insurance , Labour & Finance Cost	3.00%	5660

Service Cost **57541**

Sub-Total **246200**

8	Turnkey Charges	5.00%	12310
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Total **258510**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	328304	258510
Total Cost of the Estimate	328304	258510

Item Code No. 1402
L.T. LINE 3 ph 4 W. - ACSR Weasel with PSC Pole 8 Mtr (200 KG)

SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT(RS)	AMT.(RS)
1	PSC Pole 8 Mtr (200 KG)	No.	16	1980.00	31680.00
2	ACSR Weasel	Rmt	4300	18.50	79550.00
3	M.S.Flat 50 x 6 mm	Kg	24	48.50	1164.00
4	L.T.Shackle Insulator	No	60	10.00	600.00
5	Aluminium Bobbins for neutral	No.	20	32.00	640.00
6	L.T.Shackle hardware	Pair	80	37.00	2960.00
7	Jointing Sleeves for AAC	No	4	32.00	128.00
8	PG Clamp	No	6	27.00	162.00
9	Earthing Sets L.T.	No	5	166.00	830.00



10	L.T. Stay sets	No	8	472.00	3776.00
11	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	57.45	4136.40
12	Stay Insulators	No	8	10.00	80.00
13	Binding Wire	Kg.	1.5	70.00	105.00
14	Binding Tape	Kg	1.5	43.00	64.50
15	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	57.40	5740.00
16	Concreting ration 1:3:6	Ls	1	3027.00	3027.00
17	L.T.Spacers	No	45	110.00	4950.00
18	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
19	Wedge connectors				
a)	GNAT To GNAT or equivalent AAAC	No	56	114.00	6384.00

Cost of material **148876.90**

1	Transportation on material	4.00%	5955
2	T&P on material cost	1.00%	1489
3	Contingencies on material	2.50%	3722
5	Erection cost on material	15.00%	22332
6	Contractor supervision charges on material	5.00%	7444
7	Insurance , Labour & Finance Cost	3.00%	4466

Service Cost **45407**

Sub-Total **194284**

8	Turnkey Charges	5.00%	9714
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Total **203999**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	259076	203999
Total Cost of the Estimate	259076	203999

Item Code No. 1402A

L.T. LINE 3 ph 4 W. -With ACSR Weasel for phase & Neutral with PSC Pole 8 Mtr (140 KG)

SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT(RS)	AMT.(RS)
1	PSC Pole 8 Mtr (140 KG)	No.	16	1650.00	26400.00
2	ACSR Weasel	Rmt	4300	18.50	79550.00
3	M.S.Flat 50 x 6 mm	Kg	24	48.50	1164.00
4	L.T.Shackle Insulator	No	60	10.00	600.00
5	Aluminium Bobbins for neutral	No.	20	32.00	640.00
6	L.T.Shackle hardware	Pair	80	37.00	2960.00
7	Jointing Sleeves for AAC	No	4	32.00	128.00
8	PG Clamp	No	6	27.00	162.00
9	Earthing Sets L.T.	No	5	166.00	830.00
10	L.T. Stay sets	No	8	472.00	3776.00
11	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	57.45	4136.40
12	Stay Insulators	No	8	10.00	80.00
13	Binding Wire	Kg.	1.5	70.00	105.00
14	Binding Tape	Kg	1.5	43.00	64.50
15	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	57.40	5740.00
16	Concreting ration 1:3:6	Ls	1	3027.00	3027.00
17	L.T.Spacers	No	45	110.00	4950.00
18	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
19	Wedge connectors				
a)	GNAT To GNAT or equivalent AAAC	No	56	114.00	6384.00

Cost of material **143596.90**

1	Transportation on material	4.00%	5744
2	T&P on material cost	1.00%	1436
3	Contingencies on material	2.50%	3590
5	Erection cost on material	15.00%	21540
6	Contractor supervision charges on material	5.00%	7180
7	Insurance , Labour & Finance Cost	3.00%	4308

Service Cost **43797**



Sub-Total		187394
8 Turnkey Charges	5.00%	9370

Total **196764**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	249887	196764
Total Cost of the Estimate	249887	196764

Item Code No.1403					
Cost data for laying of 1 Km. L.T. XLPE Armoured Cable for Size 70 mm2					
Sr.No.	Particulars	Unit	Qty.	RT/UNIT(RS)	Amount
1	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt	1000.00	204.00	204000.00
2	R.C.C. Pipe 150 mm 2 M	No.	30.00	572.00	17160.00
3	L.T. jointing kits for 70 Sqmm	No.	10.00	448.00	4480.00
4	Misc. (Bricks,sand,tremination kit and etc.)	LS	1.00	25350.00	25350.00

Cost of material **250990.00**

1	Transportation on material	4.00%	10040
2	T&P on material cost	1.00%	2510
3	Contingencies on material	2.50%	6275
5	Erection cost on material	15.00%	37649
6	Contractor supervision charges on material	5.00%	12550
7	Insurance , Labour & Finance Cost	3.00%	7530

Service Cost **76552**

Sub-Total **327542**

8	Turnkey Charges	5.00%	16377
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Total **343919**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	436773	343919
Total Cost of the Estimate	436773	343919

Item Code No.1405					
Cost data for laying of 1 Km. L.T.XLPE Cable for Size 120 mm2.					
Sr.No.	Particulars	Unit	Qty.	RT/UNIT(RS)	Amount
1	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	1000.00	329.00	329000.00
2	R.C.C. Pipe 150 mm 2 M	No.	30.00	572.00	17160.00
3	L.T. jointing kits for 120 Sqmm	No	10.00	560.00	5600.00
4	Misc. (Bricks,sand,tremination kit and etc.)	LS	1.00	25350.00	25350.00

Cost of material **377110.00**

1	Transportation on material	4.00%	15084
2	T&P on material cost	1.00%	3771
3	Contingencies on material	2.50%	9428
5	Erection cost on material	15.00%	56567
6	Contractor supervision charges on material	5.00%	18856
7	Insurance , Labour & Finance Cost	3.00%	11313

Service Cost **115019**

Sub-Total **492129**

8	Turnkey Charges	5.00%	24606
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Total **516735**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%



	74.02%	37.025%
Cost with overheads on Material	656247	516735
Total Cost of the Estimate	656247	516735

Item Code No.1406					
Cost data for laying of 1 Km. L.T.XLPE Armoured Cable for Size 185 mm2.					
Sr.No.	Particulars	Unit	Qty.	RT/UNIT(RS)	Amount
1	L.T. XLPE Armoured 3.5 Core cable 185 sq.mm.	Rmt	1000.00	490.00	490000.00
2	R.C.C. Pipe 150 mm 2 M	No.	30.00	572.00	17160.00
3	LT St.through joints for 185 sqmm	No	10.00	864.00	8640.00
4	Misc. (Bricks,sand,tremination kit and etc.)	LS	1.00	25350.00	25350.00

Cost of material **541150.00**

1	Transportation on material	4.00%	21646
2	T&P on material cost	1.00%	5412
3	Contingencies on material	2.50%	13529
5	Erection cost on material	15.00%	81173
6	Contractor supervision charges on material	5.00%	27058
7	Insurance , Labour & Finance Cost	3.00%	16235

Service Cost **165051**

Sub-Total **706201**

8	Turnkey Charges	5.00%	35310
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Total **741511**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	941709	741511
Total Cost of the Estimate	941709	741511

Item Code No.1407					
Estimate for LT to underground 3.5 x 300 sqmm cable for 1 Km					
Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	1000	725.00	725000.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00

Cost of material **767510.00**

1	Transportation on material	4.00%	30700
2	T&P on material cost	1.00%	7675
3	Contingencies on material	2.50%	19188
5	Erection cost on material	15.00%	115127
6	Contractor supervision charges on material	5.00%	38376
7	Insurance , Labour & Finance Cost	3.00%	23025

Service Cost **234091**

Sub-Total **1001601**

8	Turnkey Charges	5.00%	50080
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Total **1051681**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1335621	1051681
Total Cost of the Estimate	1335621	1051681

Item Code No.1408					
Estimate for LT to underground 3.5 x 240 sqmm cable for 1 Km					
Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE cable 3.5 Core 240 mm2	Rmt	1000	628.00	628000.00



2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00

Cost of material **670510.00**

1	Transportation on material	4.00%	26820
2	T&P on material cost	1.00%	6705
3	Contingencies on material	2.50%	16763
5	Erection cost on material	15.00%	100577
6	Contractor supervision charges on material	5.00%	33526
7	Insurance , Labour & Finance Cost	3.00%	20115

Service Cost **204506**

Sub-Total **875016**

8	Turnkey Charges	5.00%	43751
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Total **918766**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	1166822	918766
Total Cost of the Estimate	1166822	918766

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Item Code No. 1409

Estimate for LT to underground 4 x 16 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE Armoured cable 4core 16sq.mm.	Rmt	1000	78.00	78000.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00

Cost of material **120510.00**

1	Transportation on material	4.00%	4820
2	T&P on material cost	1.00%	1205
3	Contingencies on material	2.50%	3013
5	Erection cost on material	15.00%	18077
6	Contractor supervision charges on material	5.00%	6026
7	Insurance , Labour & Finance Cost	3.00%	3615

Service Cost **36756**

Sub-Total **157266**

8	Turnkey Charges	5.00%	7863
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Total **165129**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	209712	165129
Total Cost of the Estimate	209712	165129

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Item Code No. 1410

Estimate for LT to underground 3.5 x 35 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE armoured cable 3 1/2 C 35 sq.mm.	Rmt	1000	116.00	116000.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00

Cost of material **158510.00**

1	Transportation on material	4.00%	6340
2	T&P on material cost	1.00%	1585
3	Contingencies on material	2.50%	3963
5	Erection cost on material	15.00%	23777
6	Contractor supervision charges on material	5.00%	7926



7	Insurance , Labour & Finance Cost	3.00%	4755
	Service Cost		48346
	Sub-Total		206856
8	Turnkey Charges	5.00%	10343
	Total		217198

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	275839	217198
Total Cost of the Estimate	275839	217198

Item Code No. 1411
Estimate for LT to underground 3.5 x 50 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt	1000	150.00	150000.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00

Cost of material **192510.00**

1	Transportation on material	4.00%	7700
2	T&P on material cost	1.00%	1925
3	Contingencies on material	2.50%	4813
5	Erection cost on material	15.00%	28877
6	Contractor supervision charges on material	5.00%	9626
7	Insurance , Labour & Finance Cost	3.00%	5775
	Service Cost		58716
	Sub-Total		251226
8	Turnkey Charges	5.00%	12561
	Total		263787

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	335006	263787
Total Cost of the Estimate	335006	263787

Item Code No. 1412
Estimate for LT to underground 3.5 x 120 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T.XLPE Armoured 3.5 Core cable 120 sq.mm.	Rmt	1000	329.00	329000.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00

Cost of material **371510.00**

1	Transportation on material	4.00%	14860
2	T&P on material cost	1.00%	3715
3	Contingencies on material	2.50%	9288
5	Erection cost on material	15.00%	55727
6	Contractor supervision charges on material	5.00%	18576
7	Insurance , Labour & Finance Cost	3.00%	11145
	Service Cost		113311
	Sub-Total		484821
8	Turnkey Charges	5.00%	24241
	Total		509062

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Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	646502	509062
Total Cost of the Estimate	646502	509062

Item Code No. 1413
Estimate for LT to underground 3.5 x 70 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T.XLPE Armoured 3.5 Core cable 70 sq.mm.	Rmt	1000	204.00	204000.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00

Cost of material **246510.00**

1	Transportation on material	4.00%	9860
2	T&P on material cost	1.00%	2465
3	Contingencies on material	2.50%	6163
5	Erection cost on material	15.00%	36977
6	Contractor supervision charges on material	5.00%	12326
7	Insurance , Labour & Finance Cost	3.00%	7395

Service Cost **75186**

Sub-Total **321696**

8	Turnkey Charges	5.00%	16085
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Total **337780**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	428977	337780
Total Cost of the Estimate	428977	337780

Item Code No. 1415
Estimate for LT to underground 2C, 2.5sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	1000	55.11	55110.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00

Cost of material **97620.00**

1	Transportation on material	4.00%	3905
2	T&P on material cost	1.00%	976
3	Contingencies on material	2.50%	2441
5	Erection cost on material	15.00%	14643
6	Contractor supervision charges on material	5.00%	4881
7	Insurance , Labour & Finance Cost	3.00%	2929

Service Cost **29774**

Sub-Total **127394**

8	Turnkey Charges	5.00%	6370
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Total **133764**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	169878	133764
Total Cost of the Estimate	169878	133764

Item Code No. 1416
Estimate for LT to underground 2C, 4 sqmm cable for 1 Km



Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	Armoured Copper control cable 2Cx4 sq.mm.	Rmt	1000	74.78	74780.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00
Cost of material					117290.00

1	Transportation on material	4.00%	4692
2	T&P on material cost	1.00%	1173
3	Contingencies on material	2.50%	2932
5	Erection cost on material	15.00%	17594
6	Contractor supervision charges on material	5.00%	5865
7	Insurance , Labour & Finance Cost	3.00%	3519

Service Cost 35773

Sub-Total 153063

8	Turnkey Charges	5.00%	7653
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Total 160717

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	204108	160717
Total Cost of the Estimate	204108	160717

Item Code No. 1417
Estimate for LT to underground 2C x 16 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE Amoured 2C 16 Sqmm cable	Rmt	1000	52.00	52000.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
2	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00
Cost of material					94510.00

1	Transportation on material	4.00%	3780
2	T&P on material cost	1.00%	945
3	Contingencies on material	2.50%	2363
5	Erection cost on material	15.00%	14177
6	Contractor supervision charges on material	5.00%	4726
7	Insurance , Labour & Finance Cost	3.00%	2835

Service Cost 28826

Sub-Total 123336

8	Turnkey Charges	5.00%	6167
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Total 129502

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	164466	129502
Total Cost of the Estimate	164466	129502

Item Code No. 1418
Estimate for LT to underground 4C x 16 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE Armoured cable 4core 16sq.mm.	Rmt	1000	78.00	78000.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
2	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00
Cost of material					120510.00

1	Transportation on material	4.00%	4820
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2	T&P on material cost	1.00%	1205
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3	Contingencies on material	2.50%	3013
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5	Erection cost on material	15.00%	18077
6	Contractor supervision charges on material	5.00%	6026
7	Insurance , Labour & Finance Cost	3.00%	3615
	Service Cost		36756
	Sub-Total		157266
8	Turnkey Charges	5.00%	7863

Total **165129**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	209712	165129
Total Cost of the Estimate	209712	165129

Item Code No. 1420					
Estimate for 3 phase 5 wire with AAAC 55 mm2 conductor for phase and ACSR Weasel for neutral using RSJ pole 125 X 75 mm 9 mtr					
SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT(RS)	AMT.(RS)
1	RSJ 125x70, 9 m long	No.	20	5268.00	105360.00
2	AAAC 55 mm2	Rmt	4300	28.56	122808.00
3	ACSR Weasel	Rmt	1100	18.50	20350.00
4	M.S.Flat 50 x 6 mm	Kg	24	48.50	1164.00
5	L.T.Shackle Insulator	No	96	10.00	960.00
6	Aluminium Bobbins for neutral	No.	24	32.00	768.00
7	L.T.Shackle hardware	pair	120	37.00	4440.00
8	Jointing Sleeves for AAC	No	4	32.00	128.00
9	PG Clamp	No	6	27.00	162.00
10	Earthing Sets L.T.	No	5	166.00	830.00
11	L.T. Stay sets	No	8	472.00	3776.00
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	57.45	4136.40
13	Stay Insulators	No	8	10.00	80.00
14	Binding Wire	Kg.	1.5	70.00	105.00
15	Binding Tape	Kg	1.5	43.00	64.50
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	57.40	5740.00
17	Concreting ration 1:3:6	Cmt	2.4	3027.00	
18	L.T.Spacers	No	57	110.00	6270.00
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
20	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	114.00	3648.00
b)	GNAT To GNAT or equivalent AAAC	No	24	114.00	2736.00

Cost of material **286425.90**

1	Transportation on material	4.00%	11457
2	T&P on material cost	1.00%	2864
3	Contigencies on material	2.50%	7161
5	Erection cost on material	15.00%	42964
6	Contractor supervision charges on material	5.00%	14321
7	Insurance , Labour & Finance Cost	3.00%	8593
	Service Cost		87360
	Sub-Total		373786
8	Turnkey Charges	5.00%	18689

Total **392475**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	498438	392475
Total Cost of the Estimate	498438	392475



Item Code No. 1423

L.T. LINE 3 ph 4 W. on 125 X 70mm, 9m RSJ pole With AAAC 55 sqmm for phase & ACSR Weasel for neutral

SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT(RS)	AMT.(RS)
1	RSJ 125x70, 9 m long	No.	20	5268.00	105360.00
2	AAAC 55 mm2	Rmt	3200	28.56	91392.00
3	ACSR Weasel	Rmt	1100	18.50	20350.00
4	M.S.Flat 50 x 6 mm	Kg	24	48.50	1164.00
5	L.T.Shackle Insulator	No	72	10.00	720.00
6	Aluminium Bobbins for neutral	No.	24	32.00	768.00
7	L.T.Shackle hardware	Pair	96	37.00	3552.00
8	Jointing Sleeves for AAC	No	4	32.00	128.00
9	PG Clamp	No	6	27.00	162.00
10	Earthing Sets L.T.	No	5	166.00	830.00
11	L.T. Stay sets	No	8	472.00	3776.00
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	57.45	4136.40
13	Stay Insulators	No	8	10.00	80.00
14	Binding Wire	Kg.	1.5	70.00	105.00
15	Binding Tape	Kg	1.5	43.00	64.50
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	57.40	5740.00
17	Concreting ration 1:3:6	Cmt	2.4	3027.00	
18	L.T.Spacers	No	57	110.00	6270.00
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
20	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	114.00	3648.00
b)	GNAT To GNAT or equivalent AAAC	No	24	114.00	2736.00

Cost of material

253881.90

1	Transportation on material	4.00%	10155
2	T&P on material cost	1.00%	2539
3	Contingencies on material	2.50%	6347
5	Erection cost on material	15.00%	38082
6	Contractor supervision charges on material	5.00%	12694
7	Insurance , Labour & Finance Cost	3.00%	7616
	Service Cost		77434
	Sub-Total		331316
8	Turnkey Charges	5.00%	16566

Total

347882

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	441805	347882
Total Cost of the Estimate	441805	347882

Item Code No. 1424

L.T. LINE 3 ph 4 W. on 125 X 70mm, 8m RSJ pole With AAAC 55 sqmm for phase & ACSR Weasel for neutral

SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT(RS)	AMT.(RS)
1	RSJ 125x70, 8 m long	No.	20	4683.00	93660.00
2	AAAC 55 mm2	Rmt	3200	28.56	91392.00
3	ACSR Weasel	Rmt	1100	18.50	20350.00
4	M.S.Flat 50 x 6 mm	Kg	24	48.50	1164.00
5	L.T.Shackle Insulator	No	72	10.00	720.00
6	Aluminium Bobbins for neutral	No.	24	32.00	768.00
7	L.T.Shackle hardware	Pair	96	37.00	3552.00
8	Jointing Sleeves for AAC	No	4	32.00	128.00
9	PG Clamp	No	6	27.00	162.00
10	Earthing Sets L.T.	No	5	166.00	830.00
11	L.T. Stay sets	No	8	472.00	3776.00
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	57.45	4136.40
13	Stay Insulators	No	8	10.00	80.00
14	Binding Wire	Kg.	1.5	70.00	105.00
15	Binding Tape	Kg	1.5	43.00	64.50
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	57.40	5740.00



17	Concreting ration 1:3:6	Cmt	2.4	3027.00	
18	L.T.Spacers	No	57	110.00	6270.00
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
20	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	114.00	3648.00
b)	GNAT To GNAT or equivalent AAAC	No	24	114.00	2736.00

Cost of material **242181.90**

1	Transportation on material	4.00%	9687
2	T&P on material cost	1.00%	2422
3	Contingencies on material	2.50%	6055
5	Erection cost on material	15.00%	36327
6	Contractor supervision charges on material	5.00%	12109
7	Insurance , Labour & Finance Cost	3.00%	7265

Service Cost **73865**

Sub-Total **316047**

8	Turnkey Charges	5.00%	15802
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Total **331850**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	421445	331850
Total Cost of the Estimate	421445	331850

Item Code No.1425

3 phase 5 wire LT line with AAAC 55 sqmm for phase and ACSR Weasel for neutral on PSC pole, 8 mtr., 200 Kg

Sr. No.	DESCRIPTION OF MATERIALS.	UNIT	QTY	Rate/Unit Rs.	Amount Rs.
1	PSC Pole 8 Mtr (200 KG)	No	20.00	1980.00	39600.00
2	AAAC 55 mm2	Rmt	3100.00	28.56	88536.00
3	ACSR Weasel	Rmt	2100.00	18.50	38850.00
4	MS angle 50x50x6 mm	Kg	150.00	51.80	7770.00
5	M.S. Flats(50 X 10mm)	Kg	40.00	48.50	1940.00
6	L.T.Shackle Insulator	No	96.00	10.00	960.00
7	Aluminium Bobbins for neutral	No.	24	32.00	768.00
8	L.T.Shackle hardware	Pair	120.00	37.00	4440.00
9	Jointing Sleeves for AAC	No	5.00	32.00	160.00
10	PG Clamp	No	6.00	27.00	162.00
11	Earthing Sets L.T.	Set	5.00	166.00	830.00
12	L.T. Stay sets	Set	8.00	472.00	3776.00
13	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	100.00	57.45	5745.00
14	Stay Insulators	No	8.00	10.00	80.00
15	Binding Wire	Kg	1.80	70.00	126.00
16	Binding Tape	Kg	1.80	43.00	77.40
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	100.00	57.40	5740.00
18	Red Oxide Paint for 2 coats	Ltr	25.00	85.00	2125.00
19	L.T.Spacers	No	76.00	110.00	8360.00
20	G.I.Nut Bolts	Kg	57.00	82.90	4725.30
21	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	114.00	3648.00
b)	GNAT To GNAT or equivalent AAAC	No	24	114.00	2736.00
21	Sundries	LS	1.00	810.00	810.00
Cost of Material					221964.70

1	Transportation on material	4.00%	8879
2	T&P on material cost	1.00%	2220
3	Contingencies on material	2.50%	5549
5	Erection cost on material	15.00%	33295
6	Contractor supervision charges on material	5.00%	11098
7	Insurance , Labour & Finance Cost	3.00%	6659

Service Cost **67699**

Sub-Total **289664**

8	Turnkey Charges	5.00%	14483
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Total

304147

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	386263	304147
Total Cost of the Estimate	386263	304147

Item Code No.1425A

3 phase 5 wire LT line with AAAC 55 sqmm for phase and ACSR Weasel for neutral on PSC pole, 8 mtr., 140 Kg

Sr. No.	DESCRIPTION OF MATERIALS.	UNIT	QTY	Rate/Unit Rs.	Amount Rs.
1	PSC Pole 8 Mtr (140 KG)	No	20.00	1650.00	33000.00
2	AAAC 55 mm2	Rmt	3100.00	28.56	88536.00
3	ACSR Weasel	Rmt	2100.00	18.50	38850.00
4	MS angle 50x50x6 mm	Kg	150.00	51.80	7770.00
5	M.S. Flats(50 X 10mm)	Kg	40.00	48.50	1940.00
6	L.T.Shackle Insulator	No	96.00	10.00	960.00
7	Aluminium Bobbins for neutral	No.	24	32.00	768.00
7	L.T.Shackle hardware	Pair	120.00	37.00	4440.00
8	Jointing Sleeves for AAC	No	5.00	32.00	160.00
9	PG Clamp	No	6.00	27.00	162.00
10	Earthing Sets L.T.	Set	5.00	166.00	830.00
11	L.T. Stay sets	Set	8.00	472.00	3776.00
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	100.00	57.45	5745.00
13	Stay Insulators	No	8.00	10.00	80.00
14	Binding Wire	Kg	1.80	70.00	126.00
15	Binding Tape	Kg	1.80	43.00	77.40
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	100.00	57.40	5740.00
17	Red Oxide Paint for 2 coats	Ltr	25.00	85.00	2125.00
18	L.T.Spacers	No	76.00	110.00	8360.00
19	G.I.Nut Bolts	Kg	57.00	82.90	4725.30
20	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	114.00	3648.00
b)	GNAT To GNAT or equivalent AAAC	No	24	114.00	2736.00
21	Sundries	LS	1.00	810.00	810.00
	Cost of Material				215364.70

1	Transportation on material	4.00%	8615
2	T&P on material cost	1.00%	2154
3	Contingencies on material	2.50%	5384
5	Erection cost on material	15.00%	32305
6	Contractor supervision charges on material	5.00%	10768
7	Insurance , Labour & Finance Cost	3.00%	6461
	Service Cost		65686
	Sub-Total		281051
8	Turnkey Charges	5.00%	14053

Total

295103

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	374778	295103
Total Cost of the Estimate	374778	295103

Item Code No. 1501

L.T. LINE 1 ph 3 W. -with ACSR Weasel for phase & neutral with PSC Pole 8 Mtr (200 KG)

SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT(RS)	AMT.(RS)
1	PSC Pole 8 Mtr (200 KG)	No.	22	1980.00	43560.00
2	ACSR Weasel	Rmt	3150	18.50	58275.00
3	M.S.Flat 50 x 6 mm	Kg	60	48.50	2910.00
4	L.T.Shackle Insulator	No	52	10.00	520.00
5	Aluminium Bobbins for neutral	No.	26	32.00	832.00
6	L.T.Shackle hardware	Pair	104	37.00	3848.00
7	Jointing Sleeves for AAC	No	3	32.00	96.00



8	PG Clamp	No	6	27.00	162.00
9	Earthing Sets L.T.	No	5	166.00	830.00
10	L.T. Stay sets	No	8	472.00	3776.00
11	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	96	57.45	5515.20
12	Stay Insulators	No	8	10.00	80.00
13	Binding Wire	Kg.	2	70.00	140.00
14	Binding Tape	Kg	2	43.00	86.00
15	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	57.40	5740.00
16	Concreting ration 1:3:6	LS	1	3027.00	3027.00
17	L.T.Spacers	No	63	110.00	6930.00
18	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
19	Wedge connectors				
a)	GNAT To GNAT or equivalent AAAC	No	32	114.00	3648.00

Cost of material **142875.20**

1	Transportation on material	4.00%	5715
2	T&P on material cost	1.00%	1429
3	Contingencies on material	2.50%	3572
5	Erection cost on material	15.00%	21431
6	Contractor supervision charges on material	5.00%	7144
7	Insurance , Labour & Finance Cost	3.00%	4286
	Service Cost		43577
	Sub-Total		186452
8	Turnkey Charges	5.00%	9323

Total **195775**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	248631	195775
Total Cost of the Estimate	248631	195775

Item Code No. 1501A

L.T. LINE 1 ph 3 W. -with ACSR Weasel for phase & neutral with PSC Pole 8 Mtr (140 KG)

SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT(RS)	AMT.(RS)
1	PSC Pole 8 Mtr (140 KG)	No.	22	1650.00	36300.00
2	ACSR Weasel	Rmt	3150	18.50	58275.00
3	M.S.Flat 50 x 6 mm	Kg	60	48.50	2910.00
4	L.T.Shackle Insulator	No	52	10.00	520.00
5	Aluminium Bobbins for neutral	No.	26	32.00	832.00
6	L.T.Shackle hardware	Pair	104	37.00	3848.00
7	Jointing Sleeves for AAC	No	3	32.00	96.00
8	PG Clamp	No	6	27.00	162.00
9	Earthing Sets L.T.	No	5	166.00	830.00
10	L.T. Stay sets	No	8	472.00	3776.00
11	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	96	57.45	5515.20
12	Stay Insulators	No	8	10.00	80.00
13	Binding Wire	Kg.	2	70.00	140.00
14	Binding Tape	Kg	2	43.00	86.00
15	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	57.40	5740.00
16	Concreting ration 1:3:6	LS	1	3027.00	3027.00
17	L.T.Spacers	No	63	110.00	6930.00
18	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
19	Wedge connectors				
a)	GNAT To GNAT or equivalent AAAC	No	32	114.00	3648.00

Cost of material **135615.20**

1	Transportation on material	4.00%	5425
2	T&P on material cost	1.00%	1356
3	Contingencies on material	2.50%	3390
5	Erection cost on material	15.00%	20342
6	Contractor supervision charges on material	5.00%	6781



7	Insurance , Labour & Finance Cost	3.00%	4068
	Service Cost		41363
	Sub-Total		176978
8	Turnkey Charges	5.00%	8849

Total **185827**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	235998	185827
Total Cost of the Estimate	235998	185827

Item Code No. 1502					
L.T. LINE 1 ph 2 W. - with ACSR Weasel for phase & neutral with PSC Pole 8 Mtr (200 KG)					
SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT	AMT.(RS)
1	PSC Pole 8 Mtr (200 KG)	No.	22	1980.00	43560.00
2	ACSR Weasel	Rmt	2100	18.50	38850.00
3	M.S.Flat 50 x 6 mm	Kg	40	48.50	1940.00
4	L.T.Shackle Insulator	No	26	10.00	260.00
5	Aluminium Bobbins for neutral	No.	26	32.00	832.00
6	L.T.Shackle hardware	Pair	78	37.00	2886.00
7	Jointing Sleeves for AAC	No	2	32.00	64.00
8	PG Clamp	No	6	27.00	162.00
9	Earthing Sets L.T.	No	5	166.00	830.00
10	L.T. Stay sets	No	8	472.00	3776.00
11	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	96	57.45	5515.20
12	Stay Insulators	No	8	10.00	80.00
13	Binding Wire	Kg.	1.5	70.00	105.00
14	Binding Tape	Kg	1.5	43.00	64.50
15	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	57.40	5740.00
16	Concreting ration 1:3:6	LS	1	3027.00	3027.00
17	L.T.Spacers	No	63	110.00	6930.00
18	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
19	Wedge connectors				
a)	GNAT To GNAT or equivalent AAAC	No	24	114.00	2736.00

Cost of material **120257.70**

1	Transportation on material	4.00%	4810
2	T&P on material cost	1.00%	1203
3	Contingencies on material	2.50%	3006
5	Erection cost on material	15.00%	18039
6	Contractor supervision charges on material	5.00%	6013
7	Insurance , Labour & Finance Cost	3.00%	3608
	Service Cost		36679
	Sub-Total		156936
8	Turnkey Charges	5.00%	7847

Total **164783**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	209272	164783
Total Cost of the Estimate	209272	164783

Item Code No. 1502A					
L.T. LINE 1 ph 2 W. - with ACSR Weasel for phase & neutral with PSC Pole 8 Mtr (140 KG)					
SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT	AMT.(RS)
1	PSC Pole 8 Mtr (140 KG)	No.	22	1650.00	36300.00
2	ACSR Weasel	Rmt	2100	18.50	38850.00
3	M.S.Flat 50 x 6 mm	Kg	40	48.50	1940.00



4	L.T.Shackle Insulator	No	26	10.00	260.00
5	Aluminium Bobbins for neutral	No.	26	32.00	832.00
5	L.T.Shackle hardware	Pair	78	37.00	2886.00
6	Jointing Sleeves for AAC	No	2	32.00	64.00
7	PG Clamp	No	6	27.00	162.00
8	Earthing Sets L.T.	No	5	166.00	830.00
9	L.T. Stay sets	No	8	472.00	3776.00
10	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	96	57.45	5515.20
11	Stay Insulators	No	8	10.00	80.00
12	Binding Wire	Kg.	1.5	70.00	105.00
13	Binding Tape	Kg	1.5	43.00	64.50
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	57.40	5740.00
15	Concreting ration 1:3:6	LS	1	3027.00	3027.00
16	L.T.Spacers	No	63	110.00	6930.00
17	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
18	Wedge connectors				
a)	GNAT To GNAT or equivalent AAAC	No	24	114.00	2736.00

Cost of material

112997.70

1	Transportation on material	4.00%	4520
2	T&P on material cost	1.00%	1130
3	Contingencies on material	2.50%	2825
5	Erection cost on material	15.00%	16950
6	Contractor supervision charges on material	5.00%	5650
7	Insurance , Labour & Finance Cost	3.00%	3390

Service Cost

34464

Sub-Total

147462

8	Turnkey Charges	5.00%	7373
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Total

154835

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	196639	154835
Total Cost of the Estimate	196639	154835

Item Code No. 1503

1 phase 2 Wire LT line with ACSR Weasel for phase and GNAT for neutral on 125 X 70 mm, RSJ 9 Mtr long Pole

S.No.	Description	Unit	Qty.	Rate	Amount
1	RSJ 125x70, 9 m long	No	16	5268.00	84288.00
2	MS Flat 50 X 8 mm	Kg	24	48.50	1164.00
3	ACSR Weasel	Rmt	1100	18.50	20350.00
4	ACSR Weasel	Rmt	1100	18.50	20350.00
5	L.T.Shackle Insulator	No	20	10.00	200.00
6	Aluminium Bobbins for neutral	No.	20	32.00	640.00
7	L.T.Shackle hardware	Pair	60	37.00	2220.00
8	Jointing Sleeves for AAC	No	2	32.00	64.00
9	PG Clamp	No	4	27.00	108.00
10	Earthing Sets L.T.	Set	5	166.00	830.00
11	L.T. Stay sets	Set	8	472.00	3776.00
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	72	57.45	4136.40
13	Stay Insulators	No	8	10.00	80.00
14	Binding Wire	Kg	2	70.00	140.00
15	Binding Tape	Kg	2	43.00	86.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	75	57.40	4305.00
17	L.T.Spacers	No	45	110.00	4950.00
18	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	12	114.00	1368.00
b)	GNAT To GNAT or equivalent AAAC	No	12	114.00	1368.00
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
	Cost of material				153323.40

1	Transportation on material	4.00%	6133
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2	T&P on material cost	1.00%	1533
3	Contingencies on material	2.50%	3833
5	Erection cost on material	15.00%	22999
6	Contractor supervision charges on material	5.00%	7666
7	Insurance , Labour & Finance Cost	3.00%	4600
	Service Cost		46764
	Sub-Total		200087
8	Turnkey Charges	5.00%	10004

Total **210091**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	266813	210091
Total Cost of the Estimate	266813	210091

Item Code No. 1504

1 phase 2 Wire LT line with AAAC 55 sqmm for phase and ACSR Weasel for neutral on PSC Pole 8 Mtr (200 KG).

S.No.	Description	Unit	Qty.	Rate	Amount
1	PSC Pole 8 Mtr (200 KG)	No	16	1980.00	31680.00
2	MS Flat 50 X 8 mm	Kg	24	48.50	1164.00
3	AAAC 55 mm2	Rmt	1100.00	28.56	31416.00
4	ACSR Weasel	Rmt	1100	18.50	20350.00
5	L.T.Shackle Insulator	No	20	10.00	200.00
6	Aluminium Bobbins for neutral	No.	20	32.00	640.00
7	L.T.Shackle hardware	Pair	60	37.00	2220.00
8	Jointing Sleeves for AAC	No	2	32.00	64.00
9	PG Clamp	No	4	27.00	108.00
10	Earthing Sets L.T.	Set	5	166.00	830.00
11	L.T. Stay sets	Set	8	472.00	3776.00
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	72	57.45	4136.40
13	Stay Insulators	No	8	10.00	80.00
14	Binding Wire	Kg	2	70.00	140.00
15	Binding Tape	Kg	2	43.00	86.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	75	57.40	4305.00
17	L.T.Spacers	No	45	110.00	4950.00
18	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	12	114.00	1368.00
b)	GNAT To GNAT or equivalent AAAC	No	12	114.00	1368.00
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
	Cost of material				111781.40

1	Transportation on material	4.00%	4471
2	T&P on material cost	1.00%	1118
3	Contingencies on material	2.50%	2795
5	Erection cost on material	15.00%	16767
6	Contractor supervision charges on material	5.00%	5589
7	Insurance , Labour & Finance Cost	3.00%	3353
	Service Cost		34093
	Sub-Total		145875
8	Turnkey Charges	5.00%	7294

Total **153168**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	194522	153168
Total Cost of the Estimate	194522	153168

Item Code No. 1504A

1 phase 2 Wire LT line with AAAC 55 sqmm for phase and ACSR Weasel for neutral on PSC Pole 8 Mtr (140 KG).



S.No.	Description	Unit	Qty.	Rate	Amount
1	PSC Pole 8 Mtr (140 KG)	No	16	1650.00	26400.00
2	MS Flat 50 X 8 mm	Kg	24	48.50	1164.00
3	AAAC 55 mm2	Rmt	1100.00	28.56	31416.00
4	ACSR Weasel	Rmt	1100	18.50	20350.00
5	L.T.Shackle Insulator	No	20	10.00	200.00
6	Aluminium Bobbins for neutral	No.	20	32.00	640.00
7	L.T.Shackle hardware	Pair	60	37.00	2220.00
8	Jointing Sleeves for AAC	No	2	32.00	64.00
9	PG Clamp	No	4	27.00	108.00
10	Earthing Sets L.T.	Set	5	166.00	830.00
11	L.T. Stay sets	Set	8	472.00	3776.00
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	72	57.45	4136.40
13	Stay Insulators	No	8	10.00	80.00
14	Binding Wire	Kg	2	70.00	140.00
15	Binding Tape	Kg	2	43.00	86.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	75	57.40	4305.00
17	L.T.Spacers	No	45	110.00	4950.00
18	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	12	114.00	1368.00
b)	GNAT To GNAT or equivalent AAAC	No	12	114.00	1368.00
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
Cost of material					106501.40

1	Transportation on material	4.00%	4260
2	T&P on material cost	1.00%	1065
3	Contingencies on material	2.50%	2663
5	Erection cost on material	15.00%	15975
6	Contractor supervision charges on material	5.00%	5325
7	Insurance , Labour & Finance Cost	3.00%	3195
Service Cost			32483
Sub-Total			138984
8	Turnkey Charges	5.00%	6949

Total

145934

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	185334	145934
Total Cost of the Estimate	185334	145934

Item Code No. 1505

1 phase 2 Wire LT line with AAAC 55 sqmm for phase and ACSR Weasel for neutral on RSJ 125 X 70, 8mtr.

S.No.	Description	Unit	Qty.	Rate	Amount
1	RSJ 125x70, 8 m long	No	16	4683.00	74928.00
2	MS Flat 50 X 8 mm	Kg	24	48.50	1164.00
3	ACSR Weasel	Rmt	1100	18.50	20350.00
4	AAAC 55 mm2	Rmt	1100	28.56	31416.00
5	L.T.Shackle Insulator	No	20	10.00	200.00
6	Aluminium Bobbins for neutral	No.	20	32.00	640.00
7	L.T.Shackle hardware	Pair	60	37.00	2220.00
8	Jointing Sleeves for AAC	No	2	32.00	64.00
9	PG Clamp	No	4	27.00	108.00
10	Earthing Sets L.T.	Set	5	166.00	830.00
11	L.T. Stay sets	Set	8	472.00	3776.00
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	72	57.45	4136.40
13	Stay Insulators	No	8	10.00	80.00
14	Binding Wire	Kg	2	70.00	140.00
15	Binding Tape	Kg	2	43.00	86.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	75	57.40	4305.00
17	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	12	114.00	1368.00
b)	GNAT To GNAT or equivalent AAAC	No	12	114.00	1368.00
18	L.T.Spacers	No	45	110.00	4950.00



19	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
Cost of material					155029.40

1	Transportation on material	4.00%	6201
2	T&P on material cost	1.00%	1550
3	Contingencies on material	2.50%	3876
5	Erection cost on material	15.00%	23254
6	Contractor supervision charges on material	5.00%	7751
7	Insurance , Labour & Finance Cost	3.00%	4651
Service Cost			47284
Sub-Total			202313
8	Turnkey Charges	5.00%	10116

Total **212429**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	269782	212429
Total Cost of the Estimate	269782	212429

Item Code No. 1603					
11 KV ,25 KVA Dist. Transformer centers on 100x116mm, 9 mtrs RSJ poles with MCCB Dist. Box.					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	11 / .433 KV 25 KVA Transformer	No.	1	47113.00	47113.00
2	RSJ 116x100, 9 m long	No	2	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	kg.	44	51.80	2279.20
5	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
7	11 kV Pin Insulators with G.I. Pins	NO.	3	135.00	405.00
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	322.00	966.00
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	12270.00	12270.00
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1268.00	1268.00
11	H.T.Stay Set	No	4	598.00	2392.00
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
13	Earthing Sets H.T	No.	3	342.00	1026.00
14	11KV H.G.Fuses	Set.	1	1964.00	1964.00
15	11KV A.B. Switch, 400 A	No.	1	9240.00	9240.00
16	Danger Board in yard.	No.	2	50.00	100.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
18	G.I.Barbed Wire 'A' type.	kg.	15	64.27	964.05
19	Concreting ration 1:3:6	CMT.	2	3027.00	6054.00
20	Painting/Hardware & support with numbering of pole	L.S.	1	225.00	225.00
21	DTC Metring with Box, single core L.T. XLPE cable (16 sq.mm., 120 mtr length) and other allied material.	No.	1	7514.00	7514.00
22	Sundries	L.S.	1	810.00	810.00

Cost of material **123453.10**

1	Transportation on material	4.00%	4938
2	T&P on material cost	1.00%	1235
3	Contingencies on material	2.50%	3086
5	Erection cost on material	15.00%	18518
6	Contractor supervision charges on material	5.00%	6173
7	Insurance , Labour & Finance Cost	3.00%	3704
Service Cost			37653
Sub-Total			161106
8	Turnkey Charges	5.00%	8055

Total **169162**

Particulars	DPR Amount	Tender/ Estimate Amount



	74.02%	37.025%
Cost with overheads on Material	214833	169162
Total Cost of the Estimate	214833	169162

Item Code No. 01605					
Cost data for 22 KV Single circuit Pin type with 55sq.mm AAAC lines on 9 mtr PSC poles					
(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	PSC Pole 9 Mtr (200 KG)	No.	18	2260.00	40680.00
2	MS Channel 100x50x6 mm	Kg.	140	51.80	7252.00
3	M.S.Channel 75x40x6 mm	Kg.	150	51.80	7770.00
4	MS angle 50x50x6 mm	Kg.	72	51.80	3729.60
5	22 KV V cross arm with clamp	No.	12	906.00	10872.00
6	22 KV Top Fitting	No.	12	382.00	4584.00
7	M.S. Flats(50 X 10mm)	Kg.	37	48.50	1794.50
8	G.I.Nut Bolts	Kg.	90	82.90	7461.00
9	22 kV Pin Insulators with G.I. Pins	No.	51	336.00	17136.00
10	Disc Insulator 11 KV 45 KN	No.	72	244.00	17568.00
11	Strain Hardware for 55 Sq.mm AAAC	Set	24	140.00	3360.00
12	AAAC 55 mm2	Rmt	3100	28.56	88536.00
13	Sleeve Joints	No.	3	115.00	345.00
14	H.T.Stay Set	Set	12	598.00	7176.00
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	88	57.45	5055.60
16	Earthing Sets H.T	Set	18	342.00	6156.00
17	G.I.Barbed Wire 'A' type.	Kg.	77	64.27	4948.79
18	Danger Board in yard.	No.	18	50.00	900.00
19	Concreting ration 1:3:6	Cmt.	20	3027.00	60540.00
20	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	57.40	5740.00
21	Painting of Supports & fabricated materials	LS	1	155.00	155.00
22	Sundries	LS	1	810.00	810.00
23	Minor Fabrication, binding tape, wire, etc.				
24	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.00	2736.00

Cost of material **302569.49**

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)

Cost of material 302569.49

1	Transportation on material	4.00%	12103
2	T&P on material cost	1.00%	3026
3	Contigencies on material	2.50%	7564
5	Erection cost on material	15.00%	45385
6	Contractor supervision charges on material	5.00%	15128
7	Insurance , Labour & Finance Cost	3.00%	9077

Service Cost **92284**

Sub-Total **394853**

8	Turnkey Charges	5.00%	19743
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Total **414596**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	526531	414596
Total Cost of the Estimate	526531	414596

Item Code No. 01606					
Cost data for 22 KV Single circuit Pin type with 55sq.mm AAAC lines on 9 mtr RSJ poles					
(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 9 m long	No.	18	9254.00	166572.00
2	RSJ 116x100, 8 m long	No.	5	8226.00	41130.00



3	MS Channel 100x50x6 mm	Kg.	140	51.80	7252.00
4	M.S.Channel 75x40x6 mm	Kg.	150	51.80	7770.00
5	MS angle 50x50x6 mm	Kg.	72	51.80	3729.60
6	M.S. Flats(50 X 10mm)	Kg.	37	48.50	1794.50
7	22 KV V cross arm with clamp	No.	12	906.00	10872.00
8	22 KV Top Fitting	No.	12	382.00	4584.00
9	G.I.Nut Bolts	Kg.	90	82.90	7461.00
10	22 kV Pin Insulators with G.I. Pins	No.	51	336.00	17136.00
11	Disc Insulator 11 KV 45 KN	No.	72	244.00	17568.00
12	Strain Hardware for 55 Sq.mm AAAC	Set	36	140.00	5040.00
13	AAAC 55 mm2	Rmt	3100	28.56	88536.00
14	Sieve Joints	No.	3	115.00	345.00
15	H.T.Stay Set	Set	11	598.00	6578.00
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	88	57.45	5055.60
17	Earthing Sets H.T	Set	18	342.00	6156.00
18	G.I.Barbed Wire 'A' type.	Kg.	77	64.27	4948.79
19	Danger Board in yard.	No.	18	50.00	900.00
20	Concreting ration 1:3:6	Cmt.	20	3027.00	60540.00
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	57.40	5740.00
22	Black Bituminous Paint	Ltr.	6	85.00	510.00
23	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
24	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
25	Sundries	LS	1	810.00	810.00
26	Minor Fabrication, binding tape, wire, etc.				
27	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.00	2736.00

Cost of material

473745.49

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 5 strut support considered.

Cost of material

473745.49

1	Transportation on material	4.00%	18950
2	T&P on material cost	1.00%	4737
3	Contingencies on material	2.50%	11844
5	Erection cost on material	15.00%	71062
6	Contractor supervision charges on material	5.00%	23687
7	Insurance , Labour & Finance Cost	3.00%	14212

Service Cost

144492

Sub-Total

618238

8	Turnkey Charges	5.00%	30912
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Total

649150

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	824412	649150
Total Cost of the Estimate	824412	649150

Item Code No. 01607

Cost data for 22 KV Single circuit Pin type with 100sq.mm AAAC lines on 9 mtr RSJ poles

(A) HT Line :

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 9 m long	No.	18	9254.00	166572.00
2	RSJ 116x100, 8 m long	No.	5	8226.00	41130.00
3	MS Channel 100x50x6 mm	Kg.	140	51.80	7252.00
4	M.S.Channel 75x40x6 mm	Kg.	150	51.80	7770.00
5	MS angle 50x50x6 mm	Kg.	66	51.80	3418.80
6	M.S. Flats(50 X 10mm)	Kg.	171	48.50	8293.50
7	22 KV V cross arm with clamp	No.	12	906.00	10872.00
8	22 KV Top Fitting	No.	12	382.00	4584.00



9	G.I.Nut Bolts	Kg.	90	82.90	7461.00
10	22 KV Pin Insulators with G.I. Pins	No.	51	336.00	17136.00
11	Disc Insulator 11 KV 45 KN	No.	72	244.00	17568.00
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	36	322.00	11592.00
13	AAAC 100 mm2	Rmt	3100	51.82	160642.00
14	Sleve Joints	No.	3	115.00	345.00
15	H.T.Stay Set	Set	11	598.00	6578.00
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	88	57.45	5055.60
17	Earthing Sets H.T	Set	18	342.00	6156.00
18	G.I.Barbed Wire 'A' type.	Kg.	77	64.27	4948.79
19	Danger Board in yard.	No.	18	50.00	900.00
20	Concreting ration 1:3:6	Cmt.	20	3027.00	60540.00
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	57.40	5740.00
22	Black Bituminus Paint	Ltr.	6	85.00	510.00
23	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
24	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
25	Sundries	LS	1	810.00	810.00
26	Minor Fabrication, binding tape, wire, etc.				
27	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	559.00	13416.00

Cost of material

558591.69

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 5 strut support considered.

Cost of material

558591.69

1	Transportation on material	4.00%	22344
2	T&P on material cost	1.00%	5586
3	Contingencies on material	2.50%	13965
5	Erection cost on material	15.00%	83789
6	Contractor supervision charges on material	5.00%	27930
7	Insurance , Labour & Finance Cost	3.00%	16758
	Service Cost		170370
	Sub-Total		728962
8	Turnkey Charges	5.00%	36448

Total

765410

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	972061	765410
Total Cost of the Estimate	972061	765410

Item Code No. 01608

Cost data for 11 KV Single circuit Pin type with 55sq.mm AAAC lines on 9 mtr PSC poles

(A) HT Line :

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	PSC Pole 9 Mtr (200 KG)	No.	18	2260.00	40680.00
2	M.S.Channel 75x40x6 mm	Kg.	140	51.80	7252.00
3	11 kv guarding channel MS 75x40	Kg.	150	51.80	7770.00
4	11 KV V cross arm with clamp	No.	12	639.00	7668.00
5	11 KV Top fitting with clamp	No.	12	91.00	1092.00
6	MS angle 50x50x6 mm	Kg.	66	51.80	3418.80
7	M.S. Flats(50 X 10mm)	Kg.	171	48.50	8293.50
8	G.I.Nut Bolts	Kg.	90	82.90	7461.00
9	11 kv Pin Insulators with G.I. Pins	No.	51	135.00	6885.00
10	Disc Insulator 11 KV 45 KN	No.	72	244.00	17568.00
11	Strain Hardware for 55 Sq.mm AAAC	Set	36	140.00	5040.00
12	AAAC 55 mm2	Rmt	3100	28.56	88536.00
13	Sleve Joints	No.	3	115.00	345.00
14	H.T.Stay Set	Set	11	598.00	6578.00



15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	88	57.45	5055.60
16	Earthing Sets H.T	Set	18	342.00	6156.00
17	G.I.Barbed Wire 'A' type.	Kg.	77	64.27	4948.79
18	Danger Board in yard.	No.	18	50.00	900.00
19	Concreting ration 1:3:6	Cmt.	20	3027.00	60540.00
20	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	57.40	5740.00
21	Painting of Supports & fabricated materials	LS	1	155.00	155.00
22	Sundries	LS	1	810.00	810.00
23	Minor Fabrication, binding tape, wire, etc.				
24	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.00	2736.00

Cost of material **295628.69**

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Concentering for all poles, struts & stages. (1:4:8)

Cost of material 295628.69

1	Transportation on material	4.00%	11825
2	T&P on material cost	1.00%	2956
3	Contigencies on material	2.50%	7391
5	Erection cost on material	15.00%	44344
6	Contractor supervision charges on material	5.00%	14781
7	Insurance , Labour & Finance Cost	3.00%	8869

Service Cost **90167**

Sub-Total **385795**

8	Turnkey Charges	5.00%	19290
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Total **405085**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	514453	405085
Total Cost of the Estimate	514453	405085

Item Code No. 01609					
Cost data for 11 KV Single circuit Pin type with 55sq.mm AAAC lines on 9 mtr RSJ poles					
(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 9 m long	No.	18	9254.00	166572.00
2	RSJ 116x100, 8 m long	No.	2	8226.00	16452.00
3	M.S.Channel 75x40x6 mm	Kg.	140	51.80	7252.00
4	11 kv guarding channel MS 75x40	Kg.	150	51.80	7770.00
5	11 KV V cross arm with clamp	No.	12	639.00	7668.00
6	11 KV Top fitting with clamp	No.	12	91.00	1092.00
7	MS angle 50x50x6 mm	Kg.	66	51.80	3418.80
8	M.S. Flats(50 X 10mm)	Kg.	171	48.50	8293.50
9	G.I.Nut Bolts	Kg.	90	82.90	7461.00
10	11 kv Pin Insulators with G.I. Pins	No.	51	135.00	6885.00
11	Disc Insulator 11 KV 45 KN	No.	72	244.00	17568.00
12	Strain Hardware for 55 Sq.mm AAAC	Set	36	140.00	5040.00
13	AAAC 55 mm ²	Rmt	3100	28.56	88536.00
14	Sleve Joints	No.	3	115.00	345.00
15	H.T.Stay Set	Set	11	598.00	6578.00
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	88	57.45	5055.60
17	Earthing Sets H.T	Set	18	342.00	6156.00
18	G.I.Barbed Wire 'A' type.	Kg.	77	64.27	4948.79
19	Danger Board in yard.	No.	18	50.00	900.00
20	Concreting ration 1:3:6	Cmt.	20	3027.00	60540.00
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	57.40	5740.00
22	Black Bituminus Paint	Ltr.	6	85.00	510.00
23	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00



24	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
25	Sundries	LS	1	810.00	810.00
26	Minor Fabrication, binding tape, wire, etc.				
27	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.00	2736.00

Cost of material **438308.69**

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 2 strut support considered.

Cost of material 438308.69

1	Transportation on material	4.00%	17532
2	T&P on material cost	1.00%	4383
3	Contigencies on material	2.50%	10958
5	Erection cost on material	15.00%	65746
6	Contractor supervision charges on material	5.00%	21915
7	Insurance , Labour & Finance Cost	3.00%	13149

Service Cost **133684**

Sub-Total **571993**

8	Turnkey Charges	5.00%	28600
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Total **600592**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	762745	600592
Total Cost of the Estimate	762745	600592

Item Code No. 01610

Cost data for 11 KV Single circuit Pin type with 100sq.mm AAAC lines on 9 mtr RSJ poles

(A) HT Line :

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 9 m long	No.	18	9254.00	166572.00
2	RSJ 116x100, 8 m long	No.	2	8226.00	16452.00
3	M.S.Channel 75x40x6 mm	Kg.	140	51.80	7252.00
4	11 kv guarding channel MS 75x40	Kg.	150	51.80	7770.00
5	11 KV V cross arm with clamp	No.	12	639.00	7668.00
6	11 KV Top fitting with clamp	No.	12	91.00	1092.00
7	MS angle 50x50x6 mm	Kg.	66	51.80	3418.80
8	M.S. Flats(50 X 10mm)	Kg.	171	48.50	8293.50
9	G.I.Nut Bolts	Kg.	90	82.90	7461.00
10	11 kv Pin Insulators with G.I. Pins	No.	51	135.00	6885.00
11	Disc Insulator 11 KV 45 KN	No.	72	244.00	17568.00
12	Strain Hardware for Dog.0.1 or Equ.AAAC.	Set	36	322.00	11592.00
13	AAAC 100 mm2	Rmt	3100	51.82	160642.00
14	Sieve Joints	No.	3	115.00	345.00
15	H.T.Stay Set	Set	11	598.00	6578.00
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	88	57.45	5055.60
17	Earthing Sets H.T	Set	18	342.00	6156.00
18	G.I.Barbed Wire 'A' type.	Kg.	77	64.27	4948.79
19	Danger Board in yard.	No.	18	50.00	900.00
20	Concreting ration 1:3:6	Cmt.	20	3027.00	60540.00
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	57.40	5740.00
22	Black Bituminus Paint	Ltr.	6	85.00	510.00
23	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
24	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
25	Sundries	LS	1	810.00	810.00
26	Minor Fabrication, binding tape, wire, etc.				
27	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	559.00	13416.00

Cost of material **516966.69**

Assumption:



- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Concentering for all poles, struts & stages. (1:4:8)
- 4) 5 strut support considered.

Cost of material 516966.69

1	Transportation on material	4.00%	20679
2	T&P on material cost	1.00%	5170
3	Contingencies on material	2.50%	12924
5	Erection cost on material	15.00%	77545
6	Contractor supervision charges on material	5.00%	25848
7	Insurance , Labour & Finance Cost	3.00%	15509

Service Cost 157675

Sub-Total 674642

8	Turnkey Charges	5.00%	33732
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Total 708374

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	899625	708374
Total Cost of the Estimate	899625	708374

Item Code No. 1611

11 KV ,25 KVA Dist. Transformer centers on 116 X 100 mm,11 mtrs RSJ poles with MCCB Dist box.

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	11 / .433 KV 25 KVA Transformer	No.	1	47113.00	47113.00
2	RSJ 116x100, 11 m long	No	2	11311.00	22622.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	kg.	44	51.80	2279.20
5	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
7	11 kV Pin Insulators with G.I. Pins	NO.	3	135.00	405.00
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	322.00	966.00
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	12270.00	12270.00
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1268.00	1268.00
11	H.T.Stay Set	No	4	598.00	2392.00
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
13	Earthing Sets H.T	No.	3	342.00	1026.00
14	11KV H.G.Fuses	Set.	1	1964.00	1964.00
	11KV A.B. Switch, 400 A	No.	1	9240.00	9240.00
15	Danger Board in yard.	No.	2	50.00	100.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
17	G.I.Barbed Wire 'A' type.	kg.	15	64.27	964.05
18	Concreting ration 1:3:6	CMT.	2	3027.00	6054.00
19	Painting/Hardware & support with numbering of pole	L.S.	1	225.00	225.00
20	DTC Metring with Box, single core L.T. XLPE cable (16 sq.mm., 120 mtr length) and other allied material.	No.	1	7514.00	7514.00
21	Sundries	L.S.	1	810.00	810.00

Cost of material 127567.10

1	Transportation on material	4.00%	5103
2	T&P on material cost	1.00%	1276
3	Contingencies on material	2.50%	3189
5	Erection cost on material	15.00%	19135
6	Contractor supervision charges on material	5.00%	6378
7	Insurance , Labour & Finance Cost	3.00%	3827

Service Cost 38908

Sub-Total 166475

8	Turnkey Charges	5.00%	8324
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Total 174799

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Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	221992	174799
Total Cost of the Estimate	221992	174799

Item Code No. 1701					
Cost data for 11 KV Capacitor Bank at Dist. substation (on Existing pole).					
Sr.No	Particulars	Unit	Qty.	RT/U Rs.	Amount
1	Capacitor banks without Switchgear 11 KV 0.6 MVAR	No.	1	43795.00	43795.00
2	Automatic capacitor switch 11 KV	No.	1	206553.00	206553.00
3	M.S.Channel 75x40x6 mm	Kg	50	51.80	2590.00
4	MS angle 50x50x6 mm	Kg.	10	51.80	518.00
5	M.S. Flats(50 X 10mm)	Kg.	10	48.50	485.00
6	Earthing Sets H.T	No.	2	342.00	684.00
7	Earthing materials	L.S.	1	395.00	395.00
8	Miscellaneous material	L.S.	1	475.00	475.00

Cost of material **255495.00**

1	Transportation on material	4.00%	10220
2	T&P on material cost	1.00%	2555
3	Contingencies on material	2.50%	6387
5	Erection cost on material	5.00%	12775
6	Contractor supervision charges on material	5.00%	12775
7	Insurance , Labour & Finance Cost	3.00%	7665

Service Cost **52376**

Sub-Total **307871**

8	Turnkey Charges	5.00%	15394
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Total **323265**

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	411500	323265
Total Cost of the Estimate	411500	323265

Item Code No. 1702					
Cost data for 11 KV Capacitor Bank at Dist. substation (on New double pole).					
Sr.No	Particulars	Unit	Qty.	RT/U Rs.	Amount
A)	Capacitor bank				
1	Capacitor banks without Switchgear 11 KV 0.6 MVAR	No.	1	43795.00	43795.00
2	Automatic capacitor switch 11 KV	No.	1	206553.00	206553.00
B)	DOUPLE POLE STRUCTURE , 11 M LONG RSJ POLE				
3	RSJ 152x152, 11 m long	No.	2	18245.00	36490.00
4	M.S. Flats(50 X 10mm)	Kg.	10	48.50	485.00
5	MS Channel 100x50x6 mm	Kg.	110	51.80	5698.00
6	M.S.Channel 75x40x6 mm	Kg.	75	51.80	3885.00
7	MS angle 50x50x6 mm	Kg.	50	51.80	2590.00
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	322.00	1932.00
9	Disc Insulator 11 KV 70 KN	No.	6	344.00	2064.00
10	H.T.Stay Set	No.	2	598.00	1196.00
11	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	57.45	1436.25
12	Earthing Sets H.T	No	2	342.00	684.00
13	G.I.Wire 8 SWG/ 6 SWG	kg.	6	57.40	344.40
14	G.I.Barbed Wire 'A' type.	kg.	7	64.27	449.89
15	Danger Board in yard.	No.	2	50.00	100.00
16	Black Bituminous Paint	Ltr.	2	85.00	170.00
17	Red Oxide Paint for 2 coats	Ltr.	6	85.00	510.00
18	Aluminium Paint for 1 coat	Ltr.	4	113.00	452.00
19	11 kV Pin Insulators with G.I. Pins	No.	2	135.00	270.00
20	L.As. 11 KV (Gapless type) with disconnector	No.	1	1268.00	1268.00
21	Concreting ration 1:3:6	Cmt.	2	3027.00	6054.00



20	Sundries	L.S.	1	810.00	810.00
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Cost of material **317236.54**

1	Transportation on material	5.00%	15862
2	T&P on material cost	1.00%	3172
3	Contingencies on material	2.50%	7931
5	Erection cost on material	5.00%	15862
6	Contractor supervision charges on material	5.00%	15862
7	Insurance , Labour & Finance Cost	3.00%	9517

Service Cost **68206**

Sub-Total **385442**

8	Turnkey Charges	5.00%	19272
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Total **404715**

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	510941	401384
Total Cost of the Estimate	510941	401384

Item Code No. 1703

Cost Data for 11 KV Station Type 1.2 MVAR Capacitor Bank with 0.2 % Reactor for rural area

Sr.No.	Description of Material	Unit	Qty.	Rate in Rs.	Amt.
1	11 KV Lightning Arrestors (Station type)	Set	1	10260.00	10260.00
2	11 kv, Single phase, outdoor NCT	Nos.	1	13000.00	13000.00
	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	10611.00	31833.00
3	1.2 MVAR, 11 kv Capacitor Bank	Set	1	118369.00	118369.00
4	11KV A.B. Switch, 400 A	Nos.	1	9240.00	9240.00
2	11 KV Isolators with EB (800 A)	Set	1	30025.00	30025.00
5	11 KV Isolators without EB (800 Amp.)	Set	1	26630.00	26630.00
6	11 KV VCB 800 A Outdoor	Set	1	117466.00	117466.00
7	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	31754.00	31754.00
8	C&R Panel for 11 kv Outgoing Feeder OD	Nos.	1	49844.00	49844.00
9	0.9688 KVAR, 11 kv, 1 Ph, Al winded series reactor	Set	1	46220.00	46220.00
10	Earthing Sets H.T	L.S.	17	342.00	5814.00

Cost of material **490455.00**

1	Transportation on material	4.00%	19618
2	T&P on material cost	1.00%	4905
3	Contingencies on material	2.50%	12261
5	Erection cost on material	5.00%	24523
6	Contractor supervision charges on material	5.00%	24523
7	Insurance , Labour & Finance Cost	3.00%	14714

Service Cost **100543**

Sub-Total **590998**

8	Turnkey Charges	5.00%	29550
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Total **620548**

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	789927	620548
Total Cost of the Estimate	789927	620548

Cost data of Structure for 11 KV Station Capacitor Bank

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 11 KV CT	Kg.	50	51.80	2590.00
2	Structure for 11 KV L.A.	Kg.	155	51.80	8029.00
3	Structure for Breaker and Capacitors	Kg.	360	51.80	18648.00
4	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	31754.00



Item Code No. 1704

Cost Data for 11 KV Station Type 2.4 MVAR Capacitor Bank with 0.2 % Reactor for any area

Sr.No.	Description of Material	Unit	Qty.	Rate in Rs.	Amt.
1	11 KV Lightning Arrestors (Station type)	Set	1	10260.00	10260.00
2	11 kv, Single phase, outdoor NCT	Nos.	1	13000.00	13000.00
	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	10611.00	31833.00
3	2.4 MVAR, 11 kv Capacitor Bank	Set	1	240731.00	240731.00
4	11KV A.B. Switch, 400 A	Nos.	1	9240.00	9240.00
2	11 KV Isolators with EB (800 A)	Set	1	30025.00	30025.00
5	11 KV Isolators without EB (800 Amp.)	Set	1	26630.00	26630.00
6	11 KV VCB 800 A Outdoor	Set	1	117466.00	117466.00
7	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	31754.00	31754.00
8	C&R Panel for 11 kv Outgoing Feeder OD	Nos.	1	49844.00	49844.00
9	1.93 KVAR, 11 kv, 1 Ph, Al wined series reactor	Set	1	54887.00	54887.00
10	Earthing Sets H.T	L.S.	17	342.00	5814.00

Cost of material

621484.00

1	Transportation on material	4.00%	24859
2	T&P on material cost	1.00%	6215
3	Contingencies on material	2.50%	15537
5	Erection cost on material	5.00%	31074
6	Contractor supervision charges on material	5.00%	31074
7	Insurance , Labour & Finance Cost	3.00%	18645

Service Cost

127404

Sub-Total

748888

8	Turnkey Charges	5.00%	37444
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Total

786333

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	1000962	786333
Total Cost of the Estimate	1000962	786333

Cost data of Structure for 11 KV Station Capacitor Bank

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 11 KV CT	Kg.	50	51.80	2590.00
2	Structure for 11 KV L.A.	Kg.	155	51.80	8029.00
3	Structure for Breaker and Capacitors	Kg.	360	51.80	18648.00
4	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	31754.00

Item Code No. 1705

Cost Data for 11 KV Station Type 3.0 MVAR Capacitor Bank with 0.2 % Reactor for Rural area

Sr.No.	Description of Material	Unit	Qty.	Rate in Rs.	Amt.
1	11 KV Lightning Arrestors (Station type)	Set	1	10260.00	10260.00
2	11 kv, Single phase, outdoor NCT	Nos.	1	13000.00	13000.00
	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	10611.00	31833.00
3	3.0 MVAR, 11 kv Capacitor Bank	Set	1	291765.00	291765.00
4	11KV A.B. Switch, 400 A	Nos.	1	9240.00	9240.00
2	11 KV Isolators with EB (800 A)	Set	1	30025.00	30025.00
5	11 KV Isolators without EB (800 Amp.)	Set	1	26630.00	26630.00
6	11 KV VCB 800 A Outdoor	Set	1	117466.00	117466.00
7	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	31754.00	31754.00
8	C&R Panel for 11 kv Outgoing Feeder OD	Nos.	1	49844.00	49844.00
9	2.42 KVAR, 11 kv, 1 Ph, Al wined series reactor	Set	1	89552.00	89552.00
10	Earthing Sets H.T	L.S.	17	342.00	5814.00

Cost of material

707183.00

1	Transportation on material	4.00%	28287
2	T&P on material cost	1.00%	7072
3	Contingencies on material	2.50%	17680
5	Erection cost on material	5.00%	35359
6	Contractor supervision charges on material	5.00%	35359



7	Insurance , Labour & Finance Cost	3.00%	21215
	Service Cost		144973
	Sub-Total		852156
8	Turnkey Charges	5.00%	42608

Total **894763**

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	1138989	894763
Total Cost of the Estimate	1138989	894763

Cost data of Structure for 11 KVStation Capacitor Bank

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 11 KV CT	Kg.	50	51.80	2590.00
2	Structure for 11 KV L.A.	Kg.	155	51.80	8029.00
3	Structure for Breaker and Capacitors	Kg.	360	51.80	18648.00
4	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	31754.00

Item Code No. 1706

Cost Data for 11 KV Station Type 3.0 MVAR Capacitor Bank with 6 % Reactor for Urban area

Sr.No.	Description of Material	Unit	Qty.	Rate in Rs.	Amt.
1	11 KV Lightning Arrestors (Station type)	Set	1	10260.00	10260.00
2	11 kV, Single phase, outdoor NCT	Nos.	1	13000.00	13000.00
	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	10611.00	31833.00
3	3.0 MVAR, 11 kV Capacitor Bank	Set	1	291765.00	291765.00
4	11KV A.B. Switch, 400 A	Nos.	1	9240.00	9240.00
2	11 KV Isolators with EB (800 A)	Set	1	30025.00	30025.00
5	11 KV Isolators without EB (800 Amp.)	Set	1	26630.00	26630.00
6	11 KV VCB 800 A Outdoor	Set	1	117466.00	117466.00
7	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	43829.00	43829.00
8	C&R Panel for 11 kV Outgoing Feeder OD	Nos.	1	49844.00	49844.00
9	72 KVAR, 11 kV series reactor	Set	1	265962.00	265962.00
10	Earthing Sets H.T	L.S.	17	342.00	5814.00

Cost of material **895668.00**

1	Transportation on material	4.00%	35827
2	T&P on material cost	1.00%	8957
3	Contingencies on material	2.50%	22392
5	Erection cost on material	5.00%	44783
6	Contractor supervision charges on material	5.00%	44783
7	Insurance , Labour & Finance Cost	3.00%	26870
	Service Cost		183612
	Sub-Total		1079280
8	Turnkey Charges	5.00%	53964

Total **1133244**

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	1442563	1133244
Total Cost of the Estimate	1442563	1133244

Cost data of Structure for 11 KVStation Capacitor Bank

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 11 KV CT	Kg.	50	51.80	2590.00
2	Structure for 11 KV L.A.	Kg.	155	51.80	8029.00
3	Structure for Breaker and Capacitors	Kg.	360	51.80	18648.00
4	Structure for Series Reactor(set)	L.S.	1	12075.00	12075.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	43829.00

Item Code No. 1707



Cost Data for 22 KV Station Type 1.2 MVAR Capacitor Bank with 0.2 % Reactor for rural area

Sr.No.	Description of Material	Unit	Qty.	Rate in Rs.	Amt.
1	22 KV Lightning Arrestors (Station type)	Set	1	11884.00	11884.00
2	22 KV, Single phase, outdoor NCT	Nos.	1	18000.00	18000.00
3	22 KV C.T. Three core.	Nos.	3	24999.00	74997.00
4	1.2 MVAR, 22 kV Capacitor Bank	Set	1	219315.00	219315.00
5	22KV A.B.Switch, 400 A	Nos.	1	14447.00	14447.00
6	22 KV Isolators with EB (800 A)	Set	1	41547.00	41547.00
7	22 KV Isolators without EB (800 Amp.)	Set	1	35680.00	35680.00
8	22 KV VCB complete 800 Amp (O.D.)	Set	1	149445.00	149445.00
9	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	31754.00	31754.00
10	C&R panel for 22 KV feeder breaker	Nos.	1	49844.00	49844.00
11	0.48 KVAR, 22 kv, 1 Ph, Al winded series reactor	Set	1	92133.00	92133.00
12	Earthing Sets H.T	L.S.	17	342.00	5814.00

Cost of material **744860**

1	Transportation on material	4.00%	29794
2	T&P on material cost	1.00%	7449
3	Contingencies on material	2.50%	18622
5	Erection cost on material	5.00%	37243
6	Contractor supervision charges on material	5.00%	37243
7	Insurance , Labour & Finance Cost	3.00%	22346

Service Cost **152696**

Sub-Total **897556**

8	Turnkey Charges	5.00%	44878
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Total **942434**

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	1199672	942434
Total Cost of the Estimate	1199672	942434

Cost data of Structure for 22 KV Station Capacitor Bank

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV CT	Kg.	50	51.80	2590.00
2	Structure for 22 KV L.A.	Kg.	155	51.80	8029.00
3	Structure for Breaker and Capacitors	Kg.	360	51.80	18648.00
4	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					31754.00

Item Code No. 1708

Cost Data for 22 KV Station Type 2.4 MVAR Capacitor Bank with 0.2 % Reactor for any area

Sr.No.	Description of Material	Unit	Qty.	Rate in Rs.	Amt.
1	22 KV Lightning Arrestors (Station type)	Set	1	11884.00	11884.00
2	22 KV, Single phase, outdoor NCT	Nos.	1	18000.00	18000.00
3	22 KV C.T. Three core.	Nos.	3	24999.00	74997.00
4	2.4 MVAR, 22 kV Capacitor Bank	Set	1	302434.00	302434.00
5	22KV A.B.Switch, 400 A	Nos.	1	14447.00	14447.00
6	22 KV Isolators with EB (800 A)	Set	1	41547.00	41547.00
7	22 KV Isolators without EB (800 Amp.)	Set	1	35680.00	35680.00
8	22 KV VCB complete 800 Amp (O.D.)	Set	1	149445.00	149445.00
9	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	31754.00	31754.00
10	C&R panel for 22 KV feeder breaker	Nos.	1	49844.00	49844.00
11	0.97 KVAR, 22 kv, 1 Ph, Al winded series reactor	Set	1	120173.00	120173.00
12	Earthing Sets H.T	L.S.	17	342.00	5814.00

Cost of material **856019.00**

1	Transportation on material	4.00%	34241
2	T&P on material cost	1.00%	8560
3	Contingencies on material	2.50%	21400
5	Erection cost on material	5.00%	42801
6	Contractor supervision charges on material	5.00%	42801



7	Insurance , Labour & Finance Cost	3.00%	25681
	Service Cost		175484
	Sub-Total		1031503
8	Turnkey Charges	5.00%	51575

Total **1083078**

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	1378704	1083078
Total Cost of the Estimate	1378704	1083078

Cost data of Structure for 22 KV Station Capacitor Bank

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV CT	Kg.	50	51.80	2590.00
2	Structure for 22 KV L.A.	Kg.	155	51.80	8029.00
3	Structure for Breaker and Capacitors	Kg.	360	51.80	18648.00
4	G.I.Nut Bolts	Kg.	30	82.90	2487.00
	Total:				31754.00

Item Code No. 1709

Cost Data for 22 KV Station Type 3.0 MVAR Capacitor Bank with 0.2 % Reactor for Rural area

Sr.No.	Description of Material	Unit	Qty.	Rate in Rs.	Amt.
1	22 KV Lightning Arrestors (Station type)	Set	1	11884.00	11884.00
2	22 KV, Single phase, outdoor NCT	Nos.	1	18000.00	18000.00
	22 KV C.T. Three core.	Nos.	3	24999.00	74997.00
3	3.0 MVAR, 22 kV Capacitor Bank	Set	1	405582.00	405582.00
4	22KV A.B.Switch, 400 A	Nos.	1	14447.00	14447.00
2	22 KV Isolators with EB (800 A)	Set	1	41547.00	41547.00
5	22 KV Isolators without EB (800 Amp.)	Set	1	35680.00	35680.00
6	22 KV VCB complete 800 Amp (O.D.)	Set	1	149445.00	149445.00
7	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	31754.00	31754.00
8	C&R panel for 22 KV feeder breaker	Nos.	1	49844.00	49844.00
9	1.32 KVAR, 22 kv, 1 Ph, Al winded series reactor	Set	1	144207.00	144207.00
10	Earthing Sets H.T	L.S.	17	342.00	5814.00

Cost of material **983201.00**

1	Transportation on material	4.00%	39328
2	T&P on material cost	1.00%	9832
3	Contigencies on material	2.50%	24580
5	Erection cost on material	5.00%	49160
6	Contractor supervision charges on material	5.00%	49160
7	Insurance , Labour & Finance Cost	3.00%	29496
	Service Cost		201556
	Sub-Total		1184757
8	Turnkey Charges	5.00%	59238

Total **1243995**

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	1583544	1243995
Total Cost of the Estimate	1583544	1243995

Cost data of Structure for 22 KV Station Capacitor Bank

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV CT	Kg.	50	51.80	2590.00
2	Structure for 22 KV L.A.	Kg.	155	51.80	8029.00
3	Structure for Breaker and Capacitors	Kg.	360	51.80	18648.00
4	G.I.Nut Bolts	Kg.	30	82.90	2487.00
	Total:				31754.00



Item Code No. 1710

Cost Data for 22 KV Station Type 3.0 MVAR Capacitor Bank with 6 % Reactor for Urban area

Sr.No.	Description of Material	Unit	Qty.	Rate in Rs.	Amt.
1	22 KV Lightning Arrestors (Station type)	Set	1	11884.00	11884.00
2	22 KV, Single phase, outdoor NCT	Nos.	1	18000.00	18000.00
3	22 KV C.T. Three core.	Nos.	3	24999.00	74997.00
4	3.0 MVAR, 22 kV Capacitor Bank	Set	1	405582.00	405582.00
5	22KV A.B.Switch, 400 A	Nos.	1	14447.00	14447.00
6	22 KV Isolators with EB (800 A)	Set	1	41547.00	41547.00
7	22 KV Isolators without EB (800 Amp.)	Set	1	35680.00	35680.00
8	22 KV VCB complete 800 Amp (O.D.)	Set	1	149445.00	149445.00
9	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	52112.00	52112.00
10	C&R panel for 22 KV feeder breaker	Nos.	1	49844.00	49844.00
11	79.2 kVAR, 22 kV series reactor	Set	1	435625.00	435625.00
12	Earthing Sets H.T	L.S.	17	342.00	5814.00

Cost of material

1294977.00

1	Transportation on material	4.00%	51799
2	T&P on material cost	1.00%	12950
3	Contingencies on material	2.50%	32374
5	Erection cost on material	5.00%	64749
6	Contractor supervision charges on material	5.00%	64749
7	Insurance , Labour & Finance Cost	3.00%	38849

Service Cost

265470

Sub-Total

1560447

8	Turnkey Charges	5.00%	78022
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Total

1638470

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	2085690	1638470
Total Cost of the Estimate	2085690	1638470

Cost data of Structure for 22 KV Station Capacitor Bank

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV CT	Kg.	50	51.80	2590.00
2	Structure for 22 KV L.A.	Kg.	155	51.80	8029.00
3	Structure for Breaker and Capacitors	Kg.	360	51.80	18648.00
4	Structure for Series Reactor(set) 22 kV	L.S.	1	20358.00	20358.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	52112.00

Item Code No. 2001

Supply, Erection, Testing & Commissioning of LT 6--WAY Feeder Pillars

Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	LT Feeder Pillar 6 Way	No	1	29200.00	29200.00
2	Earthing with GI pipe	No	2	291.00	582.00
3	G.I.Strip (25 X 3 mm)	KG	2	66.78	133.56
4	Sundries	L. S.	1	810.00	810.00
5	Concreting ration 1:3:6	L. S.	1	3027.00	3027.00

Cost of material

33752.56

1	Transportation on material	4.00%	1350
2	T&P on material cost	1.00%	338
3	Contingencies on material	2.50%	844
5	Erection cost on material	15.00%	5063
6	Contractor supervision charges on material	5.00%	1688
7	Insurance , Labour & Finance Cost	3.00%	1013

Service Cost

10295

Sub-Total

44047

8	Turnkey Charges	5.00%	2202
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Total

46249

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	58736	46249
Total Cost of the Estimate	58736	46249

Item Code No. 2001A

Supply, Erection, Testing & Commissioning of LT 8--WAY Feeder Pillars

Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	LT Feeder Pillar 8 Way	No	1	38230.00	38230.00
2	Earthing with GI pipe	No	2	291.00	582.00
3	G.I.Strip (25 X 3 mm)	KG	2	66.78	133.56
4	Sundries	L. S.	1	810.00	810.00
5	Concreting ration 1:3:6	L. S.	1	3027.00	3027.00
Cost of material					42782.56

1	Transportation on material	4.00%	1711
2	T&P on material cost	1.00%	428
3	Contingencies on material	2.50%	1070
5	Erection cost on material	15.00%	6417
6	Contractor supervision charges on material	5.00%	2139
7	Insurance , Labour & Finance Cost	3.00%	1283
Service Cost			13049
Sub-Total			55831
8	Turnkey Charges	5.00%	2792

Total

58623

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	74450	58623
Total Cost of the Estimate	74450	58623

Item Code No. 2002

Supply, Erection, Testing & Commissioning of LT 4--WAY Feeder Pillars

Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	L.T. Feeder Pillar 4 Way	No	1	22940.00	22940.00
2	Earthing with GI pipe	No	2	291.00	582.00
3	G.I.Strip (25 X 3 mm)	kG	2	66.78	133.56
4	Sundries		1	810.00	810.00
5	Concreting ration 1:3:6	L. S.	1	3027.00	3027.00
Cost of material					27492.56

1	Transportation on material	4.00%	1100
2	T&P on material cost	1.00%	275
3	Contingencies on material	2.50%	687
5	Erection cost on material	15.00%	4124
6	Contractor supervision charges on material	5.00%	1375
7	Insurance , Labour & Finance Cost	3.00%	825
Service Cost			8385
Sub-Total			35878
8	Turnkey Charges	5.00%	1794

Total

37672

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	47843	37672



Total Cost of the Estimate	47843	37672
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Item Code No. 2003					
Supply, Erection, Testing & Commissioning of LT mini Feeder Pillars					
Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	L.T. Mini Feeder Pillar	No	1	8830.00	8830.00
2	Earthing with GI pipe	No	2	291.00	582.00
3	G.I.Strip (25 X 3 mm)	kG	2	66.78	133.56
4	Sundries		1	810.00	810.00
5	Concreting ration 1:3:6	L. S.	1	3027.00	3027.00
Cost of material					13382.56

1	Transportation on material	4.00%	535
2	T&P on material cost	1.00%	134
3	Contingencies on material	2.50%	335
5	Erection cost on material	15.00%	2007
6	Contractor supervision charges on material	5.00%	669
7	Insurance , Labour & Finance Cost	3.00%	401
Service Cost			4082
Sub-Total			17464
8	Turnkey Charges	5.00%	873

Total			18337
Particulars	DPR Amount	Tender/ Estimate Amount	
	74.02%	37.025%	
Cost with overheads on Material	23288	18337	
Total Cost of the Estimate	23288	18337	

Item Code No. 5101					
Upgradation of 33 KV Lines 80 sq mm to 100 sq mm conductor					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	AAAC 100 mm2	Rmt	3150	51.82	163233.00
2	RSJ 152x152, 10 m long	no	4	16586.00	66344.00
3	MS Channel 100x50x6 mm	Kg.	108	51.80	5594.40
4	MS angle 50x50x6 mm	Kg.	71	51.80	3677.80
5	M.S. Flats(50 X 10mm)	Kg.	45	48.50	2182.50
6	Disc Insulator 11 KV 70 KN	No.	6	344.00	2064.00
7	Tension Hardware for 100 sq.mm Conductor.	No.	6	341.00	2046.00
8	33 kV Pin Insulators with G.I. Pins	No.	12	541.00	6492.00
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	16	57.40	918.40
10	Sleve Joints	No.	3	115.00	345.00
11	Danger Board in yard.	No.	4	50.00	200.00
12	Earthing Sets H.T	No.	4	342.00	1368.00
13	Concreting ration 1:3:6	cmt.	2	3027.00	6054.00
14	G.I.Barbed Wire 'A' type.	Kg.	15	64.27	964.05
15	Black Bituminous Paint	Ltr.	6	85.00	510.00
16	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
17	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
18	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
19	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	559.00	13416.00
Cost of material					281026.15

1	Transportation on material	4.00%	11241
2	T&P on material cost	1.00%	2810
3	Contingencies on material	2.50%	7026
5	Erection cost on material	15.00%	42154
6	Contractor supervision charges on material	5.00%	14051
7	Insurance , Labour & Finance Cost	3.00%	8431
Service Cost			85713
Sub-Total			366739
8	Turnkey Charges	5.00%	18337



Total

385076

Particulars		
	DPR Amount	Tender/ Estimate Amount
Cost with overheads on Material	489042	385076
Total Cost of the Estimate	489042	385076

Item Code No. 5102

Cost data of Upgradation of 33 KV Line by AAAC 232 sqmm Cond..

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	AAAC 232 mm2	Rmt	3100	127.40	394940.00
2	RSJ 152x152, 13 m long	no	4	21562.00	86248.00
3	G.I.Channel 100x50x6mm	Kg.	108	70.08	7568.64
4	G.I.Angle 50x50x6mm	Kg.	71	70.08	4975.68
5	G.I Flat 50x10 mm	Kg.	45	66.78	3005.10
6	Disc Insulator 11 KV 70 KN	No.	6	344.00	2064.00
7	Strain Hardware for AAAC232 sq.mm.	No.	6	603.00	3618.00
8	33 kV Pin Insulators with G.I. Pins	No.	12	541.00	6492.00
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	16	57.40	918.40
10	Sieve Joints	No.	3	115.00	345.00
11	Danger Board in yard.	No.	4	50.00	200.00
12	Earthing Sets H.T	No.	4	342.00	1368.00
13	Concreting ration 1:3:6	cmt.	2	3027.00	6054.00
14	G.I.Barbed Wire 'A' type.	Kg.	15	64.27	964.05
15	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
16	Wedge connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	No	18	718.00	12924.00
	Cost of material				534584.87

1	Transportation on material	4.00%	21383
2	T&P on material cost	1.00%	5346
3	Contingencies on material	2.50%	13365
5	Erection cost on material	15.00%	80188
6	Contractor supervision charges on material	5.00%	26729
7	Insurance , Labour & Finance Cost	3.00%	16038
	Service Cost		163048
	Sub-Total		697633
8	Turnkey Charges	5.00%	34882

Total

732515

Particulars		
	DPR Amount	Tender/ Estimate Amount
Cost with overheads on Material	930285	732515
Total Cost of the Estimate	930285	732515

Item Code No. 5103

Replacement of old HT cable by new XLPE cable size 33 kV, 3 C, 300 sq. mm.

Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	XLPE Cable 33 KV, 3 C / 300 mm sq.	Rmt	1000.00	1737.00	1737000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	110.00	103400.00
4	33 kV Heat shrik Straight through joint (AI) kit for XLPE 3 C X 300 sqmm	Kit	4.00	36900.00	147600.00
5	33 kV Heat shrik Outdoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	Kit	2.00	19028.00	38056.00
6	Sand	Cmt	250.00	222.00	55500.00
7	Sundries	LS	1.00	810.00	810.00
	Cost of material				2099526.00

1	Transportation on material	4.00%	83981
2	T&P on material cost	1.00%	20995
3	Contingencies on material	2.50%	52488
5	Erection cost on material	15.00%	314929



6	Contractor supervision charges on material	5.00%	104976
7	Insurance , Labour & Finance Cost	3.00%	62986
	Service Cost		640355
	Sub-Total		2739881
8	Turnkey Charges	5.00%	136994

Total **2876876**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	3653595	2876876
Total Cost of the Estimate	3653595	2876876

Item Code No. 5104

Replacement of old HT O/D termination joints for 33 kV, 3 C, 300 sq. mm. XLPE cable

Sr.No.	Description	Unit	Qty.	Rate	Amount
1	33 kV Heat shrik Outdoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No	1	19028.00	19028.00
2	Sundries	LS	1	810.00	810.00
	Cost of Material				19838.00

1	Transportation on material	4.00%	794
2	T&P on material cost	1.00%	198
3	Contingencies on material	2.50%	496
5	Erection cost on material	15.00%	2976
6	Contractor supervision charges on material	5.00%	992
7	Insurance , Labour & Finance Cost	3.00%	595
	Service Cost		6051
	Sub-Total		25889
8	Turnkey Charges	5.00%	1294

Total **27183**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	34522	27183
Total Cost of the Estimate	34522	27183

Item Code No. 5105

Replacement of old HT I/D termination joints for 33 kV, 3 C, 300 sq. mm. XLPE cable

Sr.No.	Description	Unit	Qty.	Rate	Amount
1	33 kV Heat shrik Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No	1	14145.00	14145.00
2	Sundries	LS	1	810.00	810.00
	Cost of Material				14955.00

1	Transportation on material	4.00%	598
2	T&P on material cost	1.00%	150
3	Contingencies on material	2.50%	374
5	Erection cost on material	15.00%	2243
6	Contractor supervision charges on material	5.00%	748
7	Insurance , Labour & Finance Cost	3.00%	449
	Service Cost		4561
	Sub-Total		19516
8	Turnkey Charges	5.00%	976

Total **20492**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	26025	20492
Total Cost of the Estimate	26025	20492



Item Code No. 5106					
Replacement of old HT I/D straight through joints for 33 kV, 3 C, 300 sq. mm. XLPE cable					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	33 kV Heat shrik Straight through joint (AI) kit for XLPE 3 C X 300 sqmm	No	1	36900.00	36900.00
2	Sundries	LS	1	810.00	810.00
Cost of Material					37710.00

1	Transportation on material	4.00%	1508
2	T&P on material cost	1.00%	377
3	Contingencies on material	2.50%	943
5	Erection cost on material	15.00%	5657
6	Contractor supervision charges on material	5.00%	1886
7	Insurance , Labour & Finance Cost	3.00%	1131
Service Cost			11502
Sub-Total			49212
8	Turnkey Charges	5.00%	2461

Total **51672**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	65623	51672
Total Cost of the Estimate	65623	51672

Item Code No. 5202					
Upgradation of 22 KV Line					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	AAAC 100 mm2	Rmt	3150	51.82	163233.00
2	RSJ 152x152, 10 m long	no	4	16586.00	66344.00
3	MS Channel 100x50x6 mm	Kg.	108	51.80	5594.40
4	MS angle 50x50x6 mm	Kg.	71	51.80	3677.80
5	M.S. Flats(50 X 10mm)	Kg.	45	48.50	2182.50
6	Disc Insulator 11 KV 70 KN	No.	12	344.00	4128.00
7	Tension Hardware for 100 sq.mm Conductor.	No.	6	341.00	2046.00
8	22 kV Pin Insulators with G.I. Pins	No.	12	336.00	4032.00
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	16	57.40	918.40
10	Sleeve Joints	No.	3	115.00	345.00
11	Danger Board in yard.	No.	4	50.00	200.00
12	Earthing Sets H.T	No.	4	342.00	1368.00
13	Concreting ration 1:3:6	cmt.	2	3027.00	6054.00
14	G.I.Barbed Wire 'A' type.	Kg.	15	64.27	964.05
15	Black Bituminous Paint	Ltr.	6	85.00	510.00
16	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
17	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
18	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
19	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	559.00	13416.00
Cost of material					280630.15

1	Transportation on material	4.00%	11225
2	T&P on material cost	1.00%	2806
3	Contingencies on material	2.50%	7016
5	Erection cost on material	15.00%	42095
6	Contractor supervision charges on material	5.00%	14032
7	Insurance , Labour & Finance Cost	3.00%	8419
Service Cost			85592
Sub-Total			366222
8	Turnkey Charges	5.00%	18311

Total **384533**

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Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	488353	384533
Total Cost of the Estimate	488353	384533

Item code No. 5203					
Upgradation of 22 KV Line from 0.03 to 55 sqmm AAAC conductor.					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	AAAC 55 mm2	Rmt	3150	28.56	89964.00
2	RSJ 152x152, 10 m long	no	4	16586.00	66344.00
3	MS Channel 100x50x6 mm	Kg.	108	51.80	5594.40
4	MS angle 50x50x6 mm	Kg.	71	51.80	3677.80
5	M.S. Flats(50 X 10mm)	Kg.	45	48.50	2182.50
6	Disc Insulator 11 KV 70 KN	No.	12	344.00	4128.00
7	Tension Hardware for 100 sq.mm Conductor.	No.	6	341.00	2046.00
8	22 kV Pin Insulators with G.I. Pins	No.	12	336.00	4032.00
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	16	57.40	918.40
10	Sieve Joints	No.	3	115.00	345.00
11	Danger Board in yard.	No.	4	50.00	200.00
12	Earthing Sets H.T	No.	4	342.00	1368.00
13	Concreting ration 1:3:6	cmt.	2	3027.00	6054.00
14	G.I.Barbed Wire 'A' type.	Kg.	15	64.27	964.05
15	Black Bituminous Paint	Ltr.	6	85.00	510.00
16	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
17	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
18	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
19	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.00	2736.00
	Cost of material				196681.15

1	Transportation on material	4.00%	7867
2	T&P on material cost	1.00%	1967
3	Contingencies on material	2.50%	4917
5	Erection cost on material	15.00%	29502
6	Contractor supervision charges on material	5.00%	9834
7	Insurance , Labour & Finance Cost	3.00%	5900
	Service Cost		59988
	Sub-Total		256669
8	Turnkey Charges	5.00%	12833
	Total		269502

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	342265	269502
Total Cost of the Estimate	342265	269502

Item code No. 5204					
Upgradation of 22 KV Line from 0.1 to 0.2					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	AAAC 232 mm2	Rmt	3150	127.40	401310.00
2	RSJ 152x152, 13 m long	no	4	21562.00	86248.00
3	MS Channel 100x50x6 mm	Kg.	108	51.80	5594.40
4	MS angle 50x50x6 mm	Kg.	71	51.80	3677.80
5	M.S. Flats(50 X 10mm)	Kg.	45	48.50	2182.50
6	Disc Insulator 11 KV 70 KN	No.	12	344.00	4128.00
7	Tension Hardware for 200 sq.mm Conductor.	No.	6	590.00	3540.00
8	22 kV Pin Insulators with G.I. Pins	No.	12	336.00	4032.00
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	16	57.40	918.40
10	Sieve Joints	No.	3	115.00	345.00
11	Danger Board in yard.	No.	4	50.00	200.00



12	Earthing Sets H.T	No.	4	342.00	1368.00
13	Concreting ration 1:3:6	cmt.	2	3027.00	6054.00
14	G.I.Barbed Wire 'A' type.	Kg.	15	64.27	964.05
15	Black Bituminus Paint	Ltr.	6	85.00	510.00
16	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
17	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
18	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
19	Wedge connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	No	24	718.00	17232.00
	Cost of material				543921.15

1	Transportation on material	4.00%	21757
2	T&P on material cost	1.00%	5439
3	Contingencies on material	2.50%	13598
5	Erection cost on material	15.00%	81588
6	Contractor supervision charges on material	5.00%	27196
7	Insurance , Labour & Finance Cost	3.00%	16318
	Service Cost		165896
	Sub-Total		709817
8	Turnkey Charges	5.00%	35491

Total **745308**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	946532	745308
Total Cost of the Estimate	946532	745308

Item Code No. 5205

Replacement of old HT cable by new XLPE cable size 22 kV, 3 C, 300 sq. mm.

Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	XLPE Cable 22 KV, 3 C / 300 mm sq.	Rmt	1000.00	1464.00	1464000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	110.00	103400.00
4	22 kV Heat shrik Straight through joint (AI) kit for XLPE 3 C X 300 sqmm	Kit	4.00	24600.00	98400.00
5	22 kV Heat shrik Outdoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	Kit	2.00	13715.00	27430.00
6	Sand	Cmt	250.00	222.00	55500.00
7	Sundries	LS	1.00	810.00	810.00

Cost of material **1766700.00**

1	Transportation on material	4.00%	70668
2	T&P on material cost	1.00%	17667
3	Contingencies on material	2.50%	44168
5	Erection cost on material	15.00%	265005
6	Contractor supervision charges on material	5.00%	88335
7	Insurance , Labour & Finance Cost	3.00%	53001
	Service Cost		538844
	Sub-Total		2305544
8	Turnkey Charges	5.00%	115277

Total **2420821**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	3074411	2420821
Total Cost of the Estimate	3074411	2420821

Item Code No. 5206

Replacement of old HT O/D jointing kit (Straight Through) for 22 kV, 3 C, 300 sq. mm.

Sr.No.	Description	Unit	Qty.	Rate	Amount
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1	22 kV Heat shrik Outdoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No	1	13715.00	13715.00
2	Sundries	LS	1	810.00	810.00
Cost of Material					14525.00

1	Transportation on material	4.00%	581
2	T&P on material cost	1.00%	145
3	Contingencies on material	2.50%	363
5	Erection cost on material	15.00%	2179
6	Contractor supervision charges on material	5.00%	726
7	Insurance , Labour & Finance Cost	3.00%	436
Service Cost			4430
Sub-Total			18955
8	Turnkey Charges	5.00%	948

Total **19903**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	25276	19903
Total Cost of the Estimate	25276	19903

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Item Code No. 5207					
Replacement of old HT I/D termination joints for 22 kV, 3 C, 300 sq. mm. XLPE cable					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	22 kV Heat shrik Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No	1	12874.00	12874.00
2	Sundries	LS	1	810.00	810.00
Cost of Material					13684.00

1	Transportation on material	4.00%	547
2	T&P on material cost	1.00%	137
3	Contingencies on material	2.50%	342
5	Erection cost on material	15.00%	2053
6	Contractor supervision charges on material	5.00%	684
7	Insurance , Labour & Finance Cost	3.00%	411
Service Cost			4174
Sub-Total			17858
8	Turnkey Charges	5.00%	893

Total **18751**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	23813	18751
Total Cost of the Estimate	23813	18751

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Item Code No. 5208					
Replacement of old HT I/D straight through joints for 22 kV, 3 C, 300 sq. mm. XLPE cable					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	22 kV Heat shrik Straight through joint (AI) kit for XLPE 3 C X 300 sqmm	No	1	24600.00	24600.00
2	Sundries	LS	1	810.00	810.00
Cost of Material					25410.00

1	Transportation on material	4.00%	1016
2	T&P on material cost	1.00%	254
3	Contingencies on material	2.50%	635
5	Erection cost on material	15.00%	3812
6	Contractor supervision charges on material	5.00%	1271
7	Insurance , Labour & Finance Cost	3.00%	762
Service Cost			7750



Sub-Total

33160

8 Turnkey Charges

5.00%

1658

Total

34818

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	44218	34818
Total Cost of the Estimate	44218	34818

Item Code No. 5302

Upgradation of 11 KV Line 100 Sqmm conductor

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	RSJ 116x100, 10 m long	No.	4	10283.00	41132.00
2	MS Channel 100x50x6 mm	Kg.	13	51.80	673.40
3	M.S.Channel 75x40x6 mm	Kg.	119	51.80	6164.20
4	MS angle 50x50x6 mm	Kg.	16	51.80	828.80
5	M.S. Flats(50 X 10mm)	Kg.	37	48.50	1794.50
6	11 kV Pin Insulators with G.I. Pins	No.	12	135.00	1620.00
7	Disc Insulator 11 KV 70 KN	No.	6	344.00	2064.00
8	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	6	322.00	1932.00
9	AAAC 100 mm2	Rmt	3150.00	51.82	163233.00
10	Earthing Sets H.T	Set	4	342.00	1368.00
11	G.I.Barbed Wire 'A' type.	Kg.	16	64.27	1028.32
12	Danger Board in yard.	No.	4	50.00	200.00
13	Concreting ration 1:3:6	Cmt.	3	3027.00	9081.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	20	57.40	1148.00
15	Black Bituminous Paint	Ltr.	6	85.00	510.00
16	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
17	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
18	Painting/Hardware & support with numbering of pole	LS	1	225.00	225.00
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
20	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	559.00	13416.00
	Cost of material				252035.22

1	Transportation on material	4.00%	10081
2	T&P on material cost	1.00%	2520
3	Contingencies on material	2.50%	6301
5	Erection cost on material	15.00%	37805
6	Contractor supervision charges on material	5.00%	12602
7	Insurance , Labour & Finance Cost	3.00%	7561
	Service Cost		76871
	Sub-Total		328906
8	Turnkey Charges	5.00%	16445

Total

345351

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	438592	345351
Total Cost of the Estimate	438592	345351

Item Code No. 5303

Upgradation of 11 KV Line 55 Sqmm conductor

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	RSJ 116x100, 10 m long	No.	4	10283.00	41132.00
2	MS Channel 100x50x6 mm	Kg.	13	51.80	673.40
3	M.S.Channel 75x40x6 mm	Kg.	119	51.80	6164.20
4	MS angle 50x50x6 mm	Kg.	16	51.80	828.80
5	M.S. Flats(50 X 10mm)	Kg.	37	48.50	1794.50
6	11 kV Pin Insulators with G.I. Pins	No.	12	135.00	1620.00



7	Disc Insulator 11 KV 70 KN	No.	6	344.00	2064.00
8	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	6	322.00	1932.00
9	AAAC 55 mm ²	Rmt	3150.00	28.56	89964.00
10	Earthing Sets H.T	Set	4	342.00	1368.00
11	G.I.Barbed Wire 'A' type.	Kg.	16	64.27	1028.32
12	Danger Board in yard.	No.	4	50.00	200.00
13	Concreting ration 1:3:6	Cmt.	3	3027.00	9081.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	20	57.40	1148.00
15	Black Bituminus Paint	Ltr.	6	85.00	510.00
16	Red Oxide Paint for 2 coats	Ltr.	20	85.00	1700.00
17	Aluminium Paint for 1 coat	Ltr.	9	113.00	1017.00
18	Painting/Hardware & support with numbering of pole	LS	1	225.00	225.00
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
20	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.00	2736.00
	Cost of material				168086.22

1	Transportation on material	4.00%	6723
2	T&P on material cost	1.00%	1681
3	Contingencies on material	2.50%	4202
5	Erection cost on material	15.00%	25213
6	Contractor supervision charges on material	5.00%	8404
7	Insurance , Labour & Finance Cost	3.00%	5043
	Service Cost		51266
	Sub-Total		219353
8	Turnkey Charges	5.00%	10968

Total **230320**

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	292504
Total Cost of the Estimate	292504	230320

Item Code No. 5316					
Replacement of old HT cable by new XLPE cable size 11 kv, 3 C, 95 sq. mm.					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	XLPE Cable 11 KV, 3 C / 95 mm sq.	mtr	1000	592.00	592000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	110.00	103400.00
4	11 kv heat shrinkable Straight through joint kit for 3 C X 95 sqmm	Kit	4.00	4182.00	16728.00
5	11 kv heat shrinkable Outdoor termination joint kit for 3 C X 95 sqmm	Kit	2.00	1459.00	2918.00
6	Sand	Cmt	250.00	222.00	55500.00
7	Sundries	LS	1	810.00	810.00
	Cost of Material				788516.00

1	Transportation on material	4.00%	31541
2	T&P on material cost	1.00%	7885
3	Contingencies on material	2.50%	19713
5	Erection cost on material	15.00%	118277
6	Contractor supervision charges on material	5.00%	39426
7	Insurance , Labour & Finance Cost	3.00%	23655
	Service Cost		240497
	Sub-Total		1029013
8	Turnkey Charges	5.00%	51451

Total **1080464**

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	1372176



Total Cost of the Estimate	1372176	1080464
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Item Code No. 5317
Replacement of old HT cable by new XLPE cable size 11 kV, 3 C, 120 sq. mm.

Sr.No.	Description	Unit	Qty.	Rate	Amount
1	XLPE Cable 11 KV, 3 C / 185 mm sq.	mtr	1000	858.00	858000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	110.00	103400.00
4	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 95 sqmm	Kit	4.00	1459.00	5836.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 120 sqmm	Kit	2.00	1907.00	3814.00
6	Sand	Cmt	250.00	222.00	55500.00
7	Sundries	LS	1	810.00	810.00
Cost of Material					1044520.00

1	Transportation on material	4.00%	41781
2	T&P on material cost	1.00%	10445
3	Contingencies on material	2.50%	26113
5	Erection cost on material	15.00%	156678
6	Contractor supervision charges on material	5.00%	52226
7	Insurance , Labour & Finance Cost	3.00%	31336
Service Cost			318579
Sub-Total			1363099
8	Turnkey Charges	5.00%	68155

Total **1431254**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1817674	1431254
Total Cost of the Estimate	1817674	1431254

Item Code No. 5319
Replacement of old HT cable by new XLPE cable size 11 kV, 3 C, 300 sq. mm.

Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	XLPE Cable 11 KV, 3 C / 300 mm sq.	Rmt	1000.00	1194.00	1194000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	110.00	103400.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 300 sqmm	Kit	4.00	5289.00	21156.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 300 sqmm	Kit	2.00	2030.00	4060.00
6	Sand	Cmt	250.00	222.00	55500.00
7	Sundries	LS	1.00	810.00	810.00

Cost of material **1396086.00**

1	Transportation on material	4.00%	55843
2	T&P on material cost	1.00%	13961
3	Contingencies on material	2.50%	34902
5	Erection cost on material	15.00%	209413
6	Contractor supervision charges on material	5.00%	69804
7	Insurance , Labour & Finance Cost	3.00%	41883
Service Cost			425806
Sub-Total			1821892
8	Turnkey Charges	5.00%	91095

Total **1912987**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	2429469	1912987
Total Cost of the Estimate	2429469	1912987



Item Code No. 5320					
Replacement of old HT O/D jointing kit (Straight Through) for 11 kV, 3 C, 95 sq. mm.					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 95 sqmm	No	1	1459.00	1459.00
2	Sundries	LS	1	810.00	810.00
Cost of Material					2269.00

1	Transportation on material	4.00%	91
2	T&P on material cost	1.00%	23
3	Contingencies on material	2.50%	57
5	Erection cost on material	15.00%	340
6	Contractor supervision charges on material	5.00%	113
7	Insurance , Labour & Finance Cost	3.00%	68
Service Cost			692
Sub-Total			2961
8	Turnkey Charges	5.00%	148

Total **3109**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	3949	3109
Total Cost of the Estimate	3949	3109

Item Code No. 5321					
Replacement of old HT O/D jointing kit (Straight Through) for 11 kV, 3 C, 120 sq. mm.					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 120 sqmm	No	1	1907.00	1907.00
2	Sundries	LS	1	810.00	810.00
Cost of Material					2717.00

1	Transportation on material	4.00%	109
2	T&P on material cost	1.00%	27
3	Contingencies on material	2.50%	68
5	Erection cost on material	15.00%	408
6	Contractor supervision charges on material	5.00%	136
7	Insurance , Labour & Finance Cost	3.00%	82
Service Cost			829
Sub-Total			3546
8	Turnkey Charges	5.00%	177

Total **3723**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	4728	3723
Total Cost of the Estimate	4728	3723

Item Code No. 5322					
Replacement of old HT O/D jointing kit (Straight Through) for 11 kV, 3 C, 240 sq. mm.					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 240 sqmm	No	1	2030.00	2030.00
2	Sundries	LS	1	810.00	810.00
Cost of Material					2840.00

1	Transportation on material	4.00%	114
2	T&P on material cost	1.00%	28
3	Contingencies on material	2.50%	71



5	Erection cost on material	15.00%	426
6	Contractor supervision charges on material	5.00%	142
7	Insurance , Labour & Finance Cost	3.00%	85
	Service Cost		866
	Sub-Total		3706
8	Turnkey Charges	5.00%	185

Total **3892**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	4942	3892
Total Cost of the Estimate	4942	3892

Item Code No. 5323
Replacement of old HT O/D jointing kit (Straight Through) for 11 kV, 3 C, 300 sq. mm.

Sr.No.	Description	Unit	Qty.	Rate	Amount
1	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 300 sqmm	No	1	2030.00	2030.00
2	Sundries	LS	1	810.00	810.00
	Cost of Material				2840.00

1	Transportation on material	4.00%	114
2	T&P on material cost	1.00%	28
3	Contingencies on material	2.50%	71
5	Erection cost on material	15.00%	426
6	Contractor supervision charges on material	5.00%	142
7	Insurance , Labour & Finance Cost	3.00%	85
	Service Cost		866
	Sub-Total		3706
8	Turnkey Charges	5.00%	185

Total **3892**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	4942	3892
Total Cost of the Estimate	4942	3892

Item Code No. 5324
Replacement of old HT I/D termination joints for 11 kV, 3 C, 95 sq. mm. XLPE cable

Sr.No.	Description	Unit	Qty.	Rate	Amount
1	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No	1	1169.00	1169.00
2	Sundries	LS	1	810.00	810.00
	Cost of Material				1979.00

1	Transportation on material	4.00%	79
2	T&P on material cost	1.00%	20
3	Contingencies on material	2.50%	49
5	Erection cost on material	15.00%	297
6	Contractor supervision charges on material	5.00%	99
7	Insurance , Labour & Finance Cost	3.00%	59
	Service Cost		604
	Sub-Total		2583
8	Turnkey Charges	5.00%	129

Total **2712**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	4942	3892
Total Cost of the Estimate	4942	3892



Cost with overheads on Material	3444	2712
Total Cost of the Estimate	3444	2712

Item Code No. 5325					
Replacement of old HT I/D termination joints for 11 kV, 3 C, 120 sq. mm. XLPE cable					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	11 kV heat shrinkable Indoor termination joint kit for 3 C X 120 sqmm	No	1	1538.00	1538.00
2	Sundries	LS	1	810.00	810.00
Cost of Material					2348.00

1	Transportation on material	4.00%	94
2	T&P on material cost	1.00%	23
3	Contingencies on material	2.50%	59
5	Erection cost on material	15.00%	352
6	Contractor supervision charges on material	5.00%	117
7	Insurance , Labour & Finance Cost	3.00%	70
Service Cost			716
Sub-Total			3064
8	Turnkey Charges	5.00%	153

Total			3217
Particulars	DPR Amount	Tender/ Estimate Amount	
	74.02%	37.025%	
	Cost with overheads on Material	4086	3217
Total Cost of the Estimate			4086 3217

Item Code No. 5326					
Replacement of old HT I/D termination joints for 11 kV, 3 C, 240 sq. mm. XLPE cable					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	11 kV heat shrinkable Indoor termination joint kit for 3 C X 240 sqmm	No	1	1582.00	1582.00
2	Sundries	LS	1	810.00	810.00
Cost of Material					2392.00

1	Transportation on material	4.00%	96
2	T&P on material cost	1.00%	24
3	Contingencies on material	2.50%	60
5	Erection cost on material	15.00%	359
6	Contractor supervision charges on material	5.00%	120
7	Insurance , Labour & Finance Cost	3.00%	72
Service Cost			730
Sub-Total			3122
8	Turnkey Charges	5.00%	156

Total			3278
Particulars	DPR Amount	Tender/ Estimate Amount	
	74.02%	37.025%	
	Cost with overheads on Material	4163	3278
Total Cost of the Estimate			4163 3278

Item Code No. 5327					
Replacement of old HT I/D termination joints for 11 kV, 3 C, 300 sq. mm. XLPE cable					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	1	1662.00	1662.00
2	Sundries	LS	1	810.00	810.00
Cost of Material					2472.00



1	Transportation on material	4.00%	99
2	T&P on material cost	1.00%	25
3	Contingencies on material	2.50%	62
5	Erection cost on material	15.00%	371
6	Contractor supervision charges on material	5.00%	124
7	Insurance , Labour & Finance Cost	3.00%	74
	Service Cost		754
	Sub-Total		3226
8	Turnkey Charges	5.00%	161

Total **3387**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	4302	3387
Total Cost of the Estimate	4302	3387

Item Code No. 5405

Estimate for LT to underground 2C x 16 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE Amoured 2C 16 Sqmm cable	Rmt	1000	52.00	52000.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00

Cost of material **94510.00**

1	Transportation on material	4.00%	3780
2	T&P on material cost	1.00%	945
3	Contingencies on material	2.50%	2363
5	Erection cost on material	15.00%	14177
6	Contractor supervision charges on material	5.00%	4726
7	Insurance , Labour & Finance Cost	3.00%	2835

Service Cost **28826**

Sub-Total **123336**

8	Turnkey Charges	5.00%	6167
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Total **129502**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	164466	129502
Total Cost of the Estimate	164466	129502

Item Code No. 5406

Estimate for LT to underground 3.5 x 120 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	1000	329.00	329000.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00

Cost of material **371510.00**

1	Transportation on material	4.00%	14860
2	T&P on material cost	1.00%	3715
3	Contingencies on material	2.50%	9288
5	Erection cost on material	15.00%	55727
6	Contractor supervision charges on material	5.00%	18576
7	Insurance , Labour & Finance Cost	3.00%	11145

Service Cost **113311**

Sub-Total **484821**

8	Turnkey Charges	5.00%	24241
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Total **509062**



Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	646502	509062
Total Cost of the Estimate	646502	509062

Item Code No. 5407
Estimate for LT to underground 3.5 x 240 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE cable 3.5 Core 240 mm2	Rmt	1000	628.00	628000.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00

Cost of material **670510.00**

1	Transportation on material	4.00%	26820
2	T&P on material cost	1.00%	6705
3	Contingencies on material	2.50%	16763
5	Erection cost on material	15.00%	100577
6	Contractor supervision charges on material	5.00%	33526
7	Insurance , Labour & Finance Cost	3.00%	20115

Service Cost **204506**

Sub-Total **875016**

8	Turnkey Charges	5.00%	43751
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Total **918766**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	1166822	918766
Total Cost of the Estimate	1166822	918766

Item Code No. 5408
Estimate for LT to underground 3.5 x 300 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	1000	725.00	725000.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00

Cost of material **767510.00**

1	Transportation on material	4.00%	30700
2	T&P on material cost	1.00%	7675
3	Contingencies on material	2.50%	19188
5	Erection cost on material	15.00%	115127
6	Contractor supervision charges on material	5.00%	38376
7	Insurance , Labour & Finance Cost	3.00%	23025

Service Cost **234091**

Sub-Total **1001601**

8	Turnkey Charges	5.00%	50080
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Total **1051681**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	1335621	1051681
Total Cost of the Estimate	1335621	1051681

Item Code No. 5409
Estimate for LT to underground 3.5 x 185 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
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1	L.T. XLPE Armoured 3.5 Core cable 185 sq.mm.	Rmt	1000	490.00	490000.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,termination kit and etc.)	LS	1	25350.00	25350.00
Cost of material					532510.00

1	Transportation on material	4.00%	21300
2	T&P on material cost	1.00%	5325
3	Contingencies on material	2.50%	13313
5	Erection cost on material	15.00%	79877
6	Contractor supervision charges on material	5.00%	26626
7	Insurance , Labour & Finance Cost	3.00%	15975
Service Cost			162416
Sub-Total			694926
8	Turnkey Charges	5.00%	34746

Total **729672**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	926674	729672
Total Cost of the Estimate	926674	729672

Item Code No. 5410

Estimate for LT to underground 3.5 x 70 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T.XLPE Armoured 3.5 Core cable 70 sq.mm.	Rmt	1000	204.00	204000.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,termination kit and etc.)	LS	1	25350.00	25350.00

Cost of material **246510.00**

1	Transportation on material	4.00%	9860
2	T&P on material cost	1.00%	2465
3	Contingencies on material	2.50%	6163
5	Erection cost on material	15.00%	36977
6	Contractor supervision charges on material	5.00%	12326
7	Insurance , Labour & Finance Cost	3.00%	7395
Service Cost			75186
Sub-Total			321696
8	Turnkey Charges	5.00%	16085

Total **337780**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	428977	337780
Total Cost of the Estimate	428977	337780

Item Code No. 5501

Cost Data for conversion of 1 Km 33 KV Overhead line by 3 C, 300 Sqmm XLPE under ground Cable

Sr.No.	Particulars	Unit	Qty.	RT/U Rs.	Amount
1	XLPE Cable 33 KV, 3 C / 300 mm sq.	Rmt	1000.00	1737.00	1737000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	110.00	103400.00
4	33 kV Heat shrik Straight through joint (AI) kit for XLPE 3 C X 300 sqmm	No.	4.00	36900.00	147600.00
5	33 kV Heat shrik Outdoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	2.00	19028.00	38056.00
6	Sand	Cmt.	250.00	222.00	55500.00

Cost of material **2098716.00**

1	Transportation on material	4.00%	83949
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2	T&P on material cost	1.00%	20987
3	Contingencies on material	2.50%	52468
5	Erection cost on material	15.00%	314807
6	Contractor supervision charges on material	5.00%	104936
7	Insurance , Labour & Finance Cost	3.00%	62961
	Service Cost		640108
	Sub-Total		2738824
8	Turnkey Charges	5.00%	136941

Total **2875766**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	3652186	2875766
Total Cost of the Estimate	3652186	2875766

Item Code No. 5502

Cost Data for conversion of 1 Km 22 KV Overhead line by 3 C, 300 Sqmm XLPE under ground Cable

Sr.No.	Particulars	Unit	Qty.	RT/U Rs.	Amount
1	XLPE Cable 22 KV, 3 C / 300 mm sq.	Rmt	1000.00	1464.00	1464000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	110.00	103400.00
4	22 kV Heat shrik Straight through joint (AI) kit for XLPE 3 C X 300 sqmm	No.	4.00	24600.00	98400.00
5	22 kV Heat shrik Outdoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	2.00	13715.00	27430.00
6	Sand	Cmt	250.00	222.00	55500.00

Cost of material **1765890.00**

1	Transportation on material	4.00%	70636
2	T&P on material cost	1.00%	17659
3	Contingencies on material	2.50%	44147
5	Erection cost on material	15.00%	264884
6	Contractor supervision charges on material	5.00%	88295
7	Insurance , Labour & Finance Cost	3.00%	52977
	Service Cost		538596
	Sub-Total		2304486
8	Turnkey Charges	5.00%	115224

Total **2419711**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	3073002	2419711
Total Cost of the Estimate	3073002	2419711

Item Code No. 5504

Cost Data for conversion of 1 Km 22 KV Overhead line by 3 C, 95 Sqmm XLPE under ground Cable

Sr.No.	Particulars	Unit	Qty.	RT/U Rs.	Amount
1	XLPE Cable 22 KV, 3 C / 95 mm sq.	Rmt	1000.00	846.00	846000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	110.00	103400.00
4	22 KV st. through joints for 3 C / 95 mm sq.	No.	4.00	12077.00	48308.00
5	22 kV Heat shrik Indoor termination joint (AI) kit for XLPE 3 C X 95 sqmm	No.	2.00	9023.00	18046.00
6	Sand	Cmt	250.00	222.00	55500.00

Cost of material **1088414.00**

1	Transportation on material	4.00%	43537
2	T&P on material cost	1.00%	10884



3	Contingencies on material	2.50%	27210
5	Erection cost on material	15.00%	163262
6	Contractor supervision charges on material	5.00%	54421
7	Insurance , Labour & Finance Cost	3.00%	32652
	Service Cost		331966
	Sub-Total		1420380
8	Turnkey Charges	5.00%	71019

Total **1491399**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	1894058	1491399
Total Cost of the Estimate	1894058	1491399

Item Code No.5505

Cost Data for conversion of 1 Km 11 KV Overhead line by 3 C, 300 Sqmm XLPE under ground Cable

Sr.No.	Particulars	Unit	Qty.	RT/U Rs.	Amount
1	XLPE Cable 11 KV, 3 C / 300 mm sq.	Rmt	1000.00	1194.00	1194000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	110.00	103400.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 300 sqmm	No.	4.00	5289.00	21156.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 300 sqmm	No.	2.00	2030.00	4060.00
6	Sand	Cmt	250.00	222.00	55500.00

Cost of material **1395276.00**

1	Transportation on material	4.00%	55811
2	T&P on material cost	1.00%	13953
3	Contingencies on material	2.50%	34882
5	Erection cost on material	15.00%	209291
6	Contractor supervision charges on material	5.00%	69764
7	Insurance , Labour & Finance Cost	3.00%	41858
	Service Cost		425559
	Sub-Total		1820835
8	Turnkey Charges	5.00%	91042

Total **1911877**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	2428059	1911877
Total Cost of the Estimate	2428059	1911877

Item Code No.5507

Cost Data for conversion of 1 Km 11 KV Overhead line by 3 C, 185 Sqmm XLPE under ground Cable

Sr.No.	Particulars	Unit	Qty.	RT/U Rs.	Amount
1	XLPE Cable 11 KV, 3 C / 185 mm sq.	Rmt	1000.00	858.00	858000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	110.00	103400.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 185 sqmm	No.	4.00	5043.00	20172.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 185 sqmm	No.	2.00	1907.00	3814.00
6	Sand	Cmt	250.00	222.00	55500.00

Cost of material **1058046.00**

1	Transportation on material	4.00%	42322
2	T&P on material cost	1.00%	10580
3	Contingencies on material	2.50%	26451



5	Erection cost on material	15.00%	158707
6	Contractor supervision charges on material	5.00%	52902
7	Insurance , Labour & Finance Cost	3.00%	31741
	Service Cost		322704
	Sub-Total		1380750
8	Turnkey Charges	5.00%	69038

Total **1449788**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1841212	1449788
Total Cost of the Estimate	1841212	1449788

Item Code No.5508

Cost Data for conversion of 1 Km 11 KV Overhead line by 3 C, 95 Sqmm XLPE under ground Cable

Sr.No.	Particulars	Unit	Qty.	RT/U Rs.	Amount
1	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	1000.00	592.00	592000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	110.00	103400.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 95 sqmm	No.	4.00	4182.00	16728.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 95 sqmm	No.	2.00	1459.00	2918.00
6	Sand	Cmt	250.00	222.00	55500.00

Cost of material **787706.00**

1	Transportation on material	4.00%	31508
2	T&P on material cost	1.00%	7877
3	Contingencies on material	2.50%	19693
5	Erection cost on material	15.00%	118156
6	Contractor supervision charges on material	5.00%	39385
7	Insurance , Labour & Finance Cost	3.00%	23631
	Service Cost		240250
	Sub-Total		1027956
8	Turnkey Charges	5.00%	51398

Total **1079354**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1370766	1079354
Total Cost of the Estimate	1370766	1079354

Item Code No. 5510

Conversion of Overhead LT Line to underground by 3.5 C, 300 sqmm XLPE cable

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	L.T. XLPE cable 3.5 Core 300 mm2	RMT	1000	725.00	725000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00

Cost of material **767510.00**

1	Transportation on material	4.00%	30700
2	T&P on material cost	1.00%	7675
3	Contingencies on material	2.50%	19188
5	Erection cost on material	15.00%	115127
6	Contractor supervision charges on material	5.00%	38376
7	Insurance , Labour & Finance Cost	3.00%	23025
	Service Cost		234091
	Sub-Total		1001601
8	Turnkey Charges	5.00%	50080



Total

1051681

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1335621	1051681
Total Cost of the Estimate	1335621	1051681

Item Code No. 5511

Conversion of Overhead LT Line to underground by 3.5 C, 240 sqmm XLPE cable

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	L.T. XLPE cable 3.5 Core 240 mm2	RMT	1000	628.00	628000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00

Cost of material

670510.00

1	Transportation on material	4.00%	26820
2	T&P on material cost	1.00%	6705
3	Contingencies on material	2.50%	16763
5	Erection cost on material	15.00%	100577
6	Contractor supervision charges on material	5.00%	33526
7	Insurance , Labour & Finance Cost	3.00%	20115
	Service Cost		204506
	Sub-Total		875016
8	Turnkey Charges	5.00%	43751

Total

918766

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	1166822	918766
Total Cost of the Estimate	1166822	918766

Item Code No. 5512

Conversion of Overhead LT Line to underground by 3.5 C, 185 sqmm XLPE cable

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	L.T. XLPE Armoured 3.5 Core cable 185 sq.mm.	RMT	1000	490.00	490000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00

Cost of material

532510.00

1	Transportation on material	4.00%	21300
2	T&P on material cost	1.00%	5325
3	Contingencies on material	2.50%	13313
5	Erection cost on material	15.00%	79877
6	Contractor supervision charges on material	5.00%	26626
7	Insurance , Labour & Finance Cost	3.00%	15975
	Service Cost		162416
	Sub-Total		694926
8	Turnkey Charges	5.00%	34746

Total

729672

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	926674	729672
Total Cost of the Estimate	926674	729672



Item Code No. 5513					
Cost Dat Conversion of overhead LT Line to underground 3.5 x 120 sqmm cable for 1 Km					
Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	1000	329.00	329000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00
Cost of material					371510.00
1	Transportation on material		4.00%		14860
2	T&P on material cost		1.00%		3715
3	Contingencies on material		2.50%		9288
5	Erection cost on material		15.00%		55727
6	Contractor supervision charges on material		5.00%		18576
7	Insurance , Labour & Finance Cost		3.00%		11145
Service Cost					113311
Sub-Total					484821
8	Turnkey Charges		5.00%		24241
Total					509062

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	646502	509062
Total Cost of the Estimate	646502	509062

Item Code No. 5515					
Conversion of Overhead LT Line to underground by 3.5 C, 70 sqmm XLPE cable					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	RMT	1000	204.00	204000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
2	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00
Cost of material					246510.00
1	Transportation on material		4.00%		9860
2	T&P on material cost		1.00%		2465
3	Contingencies on material		2.50%		6163
5	Erection cost on material		15.00%		36977
6	Contractor supervision charges on material		5.00%		12326
7	Insurance , Labour & Finance Cost		3.00%		7395
Service Cost					75186
Sub-Total					321696
8	Turnkey Charges		5.00%		16085
Total					337780

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	428977	337780
Total Cost of the Estimate	428977	337780

Item Code No. 5516					
Cost Dat Conversion of overhead LT Line to underground 3.5 x 70 sqmm cable for 1 Km					
Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt	1000	204.00	204000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00
Cost of material					246510.00



1	Transportation on material	4.00%	9860
2	T&P on material cost	1.00%	2465
3	Contingencies on material	2.50%	6163
5	Erection cost on material	15.00%	36977
6	Contractor supervision charges on material	5.00%	12326
7	Insurance , Labour & Finance Cost	3.00%	7395
	Service Cost		75186
	Sub-Total		321696
8	Turnkey Charges	5.00%	16085

Total **337780**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	428977	337780
Total Cost of the Estimate	428977	337780

Item Code No. 5517

Conversion of Overhead LT Line to underground by 3.5 C, 50 sqmm XLPE cable

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	RMT	1000	150.00	150000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00

Cost of material **192510.00**

1	Transportation on material	4.00%	7700
2	T&P on material cost	1.00%	1925
3	Contingencies on material	2.50%	4813
5	Erection cost on material	15.00%	28877
6	Contractor supervision charges on material	5.00%	9626
7	Insurance , Labour & Finance Cost	3.00%	5775
	Service Cost		58716
	Sub-Total		251226
8	Turnkey Charges	5.00%	12561

Total **263787**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	335006	263787
Total Cost of the Estimate	335006	263787

Item Code No. 5518

Conversion of Overhead LT Line to underground by 3.5 C, 16 sqmm XLPE cable

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	1000	78.00	78000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00

Cost of material **120510.00**

1	Transportation on material	4.00%	4820
2	T&P on material cost	1.00%	1205
3	Contingencies on material	2.50%	3013
5	Erection cost on material	15.00%	18077
6	Contractor supervision charges on material	5.00%	6026
7	Insurance , Labour & Finance Cost	3.00%	3615
	Service Cost		36756
	Sub-Total		157266
8	Turnkey Charges	5.00%	7863



Total

165129

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	209712	165129
Total Cost of the Estimate	209712	165129

Item Code No. 5519

Cost Dat Conversion of overhead LT Line to underground 2 C x 16 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE Amoured 2C 16 Sqmm cable	Rmt	1000	52.00	52000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	25350.00	25350.00
Cost of material					94510.00

1	Transportation on material	4.00%	3780
2	T&P on material cost	1.00%	945
3	Contingencies on material	2.50%	2363
5	Erection cost on material	15.00%	14177
6	Contractor supervision charges on material	5.00%	4726
7	Insurance , Labour & Finance Cost	3.00%	2835
Service Cost			28826
Sub-Total			123336
8	Turnkey Charges	5.00%	6167

Total

129502

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	164466	129502
Total Cost of the Estimate	164466	129502

Item Code No. 5701

Estimate for R. & M work of 33/11 KV Sub-Station [Indoor to Outdoor] 2 x 5 MVA

Sr no.	Description	Unit	Qty.	Rate	Total cost
1	Renovation of existing 33/11 KV indoor S/S to out door S/S as specified in relevant sections of volume II, sheet no.28. 1of volume III & drawings in volume IV	No.	1	5166459.50	5166459.50
Total					5166459.50

1	Transportation on material	4.00%	206658
2	T&P on material cost	1.00%	51665
3	Contingencies on material	2.50%	129161
5	Erection cost on material	5.00%	258323
6	Contractor supervision charges on material	5.00%	258323
7	Insurance , Labour & Finance Cost	3.00%	154994
Service Cost			1059124
Sub-Total			6225584
8	Turnkey Charges	5.00%	311279

Total

6536863

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	8321100	6536863
Total Cost of the Estimate	8321100	6536863



Estimate For R. & M. work [Indoor to Outdoor] at 33 KV Sub-Station

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
11 KV SIDE					
1	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	2	852243.00	1704486.00
2	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
3	11 KV OD type VCB with directional relay with Bus coupler complete	Set	1	472539.00	472539.00
4	Take off structure for 3 outgoing feeder as per Sheet:A	No.	1	489026.40	489026.40
5	11 kv SF6, Motorized, SCADA Compatible RMU 2 Iso + 1 Br	Set	2	349751.00	699502.00
6	11 kv Pin Insulators with G.I. Pins	No.	18	135.00	2430.00
7	XLPE Cable 11 KV, 3 C / 300 mm sq.	Rmt	400	1194.00	477600.00
8	11 kv heat shrinkable Straight through joint kit for 3 C X 300 sqmm	No.	8	5289.00	42312.00
9	AAAC 232 mm2	Rmt	300	127.40	38220.00
10	Clamps and Connectors as per Sheet:B	No.	1	126395.00	126395.00
11	Structure for 11 KV Main Bus as per Sheet:C	No.	1	228565.00	228565.00
12	Station Transformer 11/0.4 KV 100 KVA as per sheet:E	No.	1	209024.20	209024.20
13	Control cables for S/S as per Sheet :D	No.	1	173825.90	173825.90
14	Earthing works as per sheet :F	No.	1	272973.00	272973.00
15	Concreting ration 1:3:6	CUM	75	3027.00	227025.00
Cost of material					5166459.50

Sheet: A

Estimate for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA,33/11 KV Sub Stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	16	9254.00	148064.00
2	MS Channel 100x50x6 mm	Kg.	2130.00	51.80	110334.00
3	MS angle 50x50x6 mm	Kg.	100.00	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	150.00	48.50	7275.00
5	11KV A.B. Switch, 400 A	Nos.	10	9240.00	92400.00
6	Disc Insulator 11 KV 70 KN	Nos.	72	344.00	24768.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	72	322.00	23184.00
8	11 kv Pin Insulators with G.I. Pins	Nos.	18	135.00	2430.00
9	Earthing Sets H.T	Sets	6	342.00	2052.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	6	1268.00	7608.00
11	AAAC 100 mm2	Rmt.	200.00	51.82	10364.00
12	G.I.Strip (25 X 3 mm)	Kg.	80.00	66.78	5342.40
13	G.I.Nut Bolts	Kg.	50.00	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	15.00	3027.00	45405.00
15	Miscellaneous material	LS	1	475.00	475.00
				Total:	489026.40

Sheet: B

Estimate for Crimping Type Clamps & Connectors at 2 x 5 MVA, 33/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	20	718.00	14360.00
b)	DOG TO DOG or equivalent AAAC	Nos.	60	559.00	33540.00
2	T-Connector for 100 sq mm conductor	Nos.	47	733.00	34451.00
3	T-Connector for 200 sq mm conductor(Compression type)	Nos.	9	3352.00	30168.00
4	T Connectors suitable for 200 sqmm twin conductor	Nos.	18	865.00	15570.00
5	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	126395.00

Sheet: C

Estimate for Structure of 11 KV Main Bus at 2x5 MVA, 33/11 KV Sub-Station (Outdoor)



Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 152x152, 8 m long	No.	8	13269.00	106152.00
2	MS Channel 100x50x6 mm	Kg.	650	51.80	33670.00
3	MS Flat 75x10 mm	Kg.	100	48.50	4850.00
4	Concreting ration 1:3:6	Cmt.	7	3027.00	21189.00
5	Disc Insulator 11 KV 70 KN	No.	12	344.00	4128.00
6	Strain Hardware for 0.2 ACSR or equivalent AAAC for twin conductor	No.	12	463.00	5556.00
7	AAAC 232 mm2	Rmt.	400	127.40	50960.00
8	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	228565.00

Sheet: D

Estimate for multistand control cable

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Amoured 2C 16 Sqmm cable	Rmt	200	52.00	10400.00
6	PVC pipe 110 mm dia 4Kg/sqcm pressure	Rmt	70	106.00	7420.00
7	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	173825.90

Sheet: E

Estimate for 100 KVA, 11/0.43 KV Station Transformer for 1x5 MVA S/S. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate in Rs.	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	130	51.80	6734.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	20	204.00	4080.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	150.00	7500.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Bentonite clay	Kg.	225	13.00	2925.00
15	Plinth for station Transformer	Cmt	7.6	3027.00	23005.20
16	AAAC 55 mm2	Mtr	30	28.56	856.80
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	209024.20

Sheet: F

Estimate for Earthing Work

Sr.No.	Description of Material	Unit	Qty.	Rate in Rs.	Amt.Rs.
1	MS Flat 75x10 mm	Kg.	800	48.50	38800.00
2	M.S. Flats(50 X 10mm)	Kg	700	48.50	33950.00
3	G.I.Strip (25 X 3 mm)	Kg	500	66.78	33390.00
4	Earthing Sets H.T with clamp	Set	20	7080.00	141600.00
5	Bentonite clay	Kg.	1500	13.00	19500.00
6	RCC Ring work for earthing pits	No.	20	266.00	5320.00
7	Welding Rods	No.	50	3.50	175.00
8	Hiring of welding machine	No.	1	238.00	238.00
				Total:	272973.00

Item Code No. 5705A

Replacement of 33 kV Ct 200-100/1-1 A, 3 Core



Sr.No	Description	Unit	Qty.	Rate	Amount
1	C.T.-33KV200-100/1-1-1A/3Core	No	1	23853.00	23853.00
Cost of Material					23853.00

1	Transportation on material	4.00%	954
2	T&P on material cost	1.00%	239
3	Contingencies on material	2.50%	596
5	Erection cost on material	5.00%	1193
6	Contractor supervision charges on material	5.00%	1193
7	Insurance , Labour & Finance Cost	3.00%	716
Service Cost			4890
Sub-Total			28743
8	Turnkey Charges	5.00%	1437

Total **30180**

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	38418	30180
Total Cost of the Estimate	38418	30180

Item Code No. 5705B					
Replacement of 33 kV Ct 400-200/1-1-1 A, 3 Core					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	33 kV C. T. (400-200/1-1-1)	No	1	25011.00	25011.00
Cost of Material					25011.00

1	Transportation on material	4.00%	1000
2	T&P on material cost	1.00%	250
3	Contingencies on material	2.50%	625
5	Erection cost on material	5.00%	1251
6	Contractor supervision charges on material	5.00%	1251
7	Insurance , Labour & Finance Cost	3.00%	750
Service Cost			5127
Sub-Total			30138
8	Turnkey Charges	5.00%	1507

Total **31645**

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	40283	31645
Total Cost of the Estimate	40283	31645

Item Code No. 5707A					
Replacement of 11 kV Ct 400-200/5-5-5 A, 3 Core O/D					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	11 KV CT 400 - 200 / 5 - 5 Outdoor	No	1	10611.00	10611.00
Cost of Material					10611.00

1	Transportation on material	4.00%	424
2	T&P on material cost	1.00%	106
3	Contingencies on material	2.50%	265
5	Erection cost on material	5.00%	531
6	Contractor supervision charges on material	5.00%	531
7	Insurance , Labour & Finance Cost	3.00%	318
Service Cost			2175
Sub-Total			12786
8	Turnkey Charges	5.00%	639

Total **13426**



Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	17090	13426
Total Cost of the Estimate	17090	13426

Item Code No. 5707B					
Replacement of 11 kV Ct 400-200-100/5-5-5 A, 3 Core I/D					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	CT - 11 KV 400 - 200 - 100/ 5-5-5 A / 3 Core I/D	No	1	14235.00	14235.00
Cost of Material					14235.00

1	Transportation on material	4.00%	569
2	T&P on material cost	1.00%	142
3	Contingencies on material	2.50%	356
5	Erection cost on material	5.00%	712
6	Contractor supervision charges on material	5.00%	712
7	Insurance , Labour & Finance Cost	3.00%	427
Service Cost			2918
Sub-Total			17153
8	Turnkey Charges	5.00%	858

Total **18011**

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	22927	18011
Total Cost of the Estimate	22927	18011

Item Code No. 5708					
Replacement of 33 kV PT					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	33 KV P.T.	No	1	18876.00	18876.00
Cost of material					18876.00

1	Transportation on material	4.00%	755
2	T&P on material cost	1.00%	189
3	Contingencies on material	2.50%	472
5	Erection cost on material	5.00%	944
6	Contractor supervision charges on material	5.00%	944
7	Insurance , Labour & Finance Cost	3.00%	566
Service Cost			3870
Sub-Total			22746
8	Turnkey Charges	5.00%	1137

Total **23883**

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	30402	23883
Total Cost of the Estimate	30402	23883

Item Code No. 5709					
Replacement of 22 KV PT					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	22 KV P.T.	No	1	17855.00	17855.00
Cost of material					17855.00

1	Transportation on material	4.00%	714
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2	T&P on material cost	1.00%	179
3	Contingencies on material	2.50%	446
5	Erection cost on material	5.00%	893
6	Contractor supervision charges on material	5.00%	893
7	Insurance , Labour & Finance Cost	3.00%	536
	Service Cost		3660
	Sub-Total		21515
8	Turnkey Charges	5.00%	1076

Total **22591**

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	28757	22591
Total Cost of the Estimate	28757	22591

Item Code No. 5710

Replacement of 11 KV PT

Sr.No.	Description	Unit	Qty	Rate	Amt
1	11 KV PT	Set	1	8965.00	8965.00
	Cost of material				8965.00

1	Transportation on material	4.00%	359
2	T&P on material cost	1.00%	90
3	Contingencies on material	2.50%	224
5	Erection cost on material	5.00%	448
6	Contractor supervision charges on material	5.00%	448
7	Insurance , Labour & Finance Cost	3.00%	269
	Service Cost		1838
	Sub-Total		10803
8	Turnkey Charges	5.00%	540

Total **11343**

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	14439	11343
Total Cost of the Estimate	14439	11343

Item Code No. 5714

Replacement of 11 kV VCB 400Amp (Indoor Type)

Sr.No.	Description	Unit	Qty	Rate	Amt
1	11 KV VCB 400 A Indoor	Set	1	281346.00	281346.00
	Cost of material				281346.00

1	Transportation on material	4.00%	11254
2	T&P on material cost	1.00%	2813
3	Contingencies on material	2.50%	7034
5	Erection cost on material	5.00%	14067
6	Contractor supervision charges on material	5.00%	14067
7	Insurance , Labour & Finance Cost	3.00%	8440
	Service Cost		57676
	Sub-Total		339022
8	Turnkey Charges	5.00%	16951

Total **355973**

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	453136	355973



Total Cost of the Estimate	453136	355973
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Item Code No. 5715					
Replacement of 11 kV VCB 400Amp (Outdoor Type)					

Sr.No.	Description	Unit	Qty	Rate	Amt
1	11 KV VCB 400 A Outdoor	Set	1	103600.00	103600.00
Cost of material					103600.00

1	Transportation on material	4.00%	4144
2	T&P on material cost	1.00%	1036
3	Contingencies on material	2.50%	2590
5	Erection cost on material	5.00%	5180
6	Contractor supervision charges on material	5.00%	5180
7	Insurance , Labour & Finance Cost	3.00%	3108
Service Cost			21238
Sub-Total			124838
8	Turnkey Charges	5.00%	6242

Total **131080**

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	166858	131080
Total Cost of the Estimate	166858	131080

Item Code No. 5716					
Replacement of 11 kV VCB 800Amp (Indoor Type)					

Sr.No.	Description	Unit	Qty	Rate	Amt
1	11 KV VCB 800 A Indoor	Set	1	288818.00	288818.00
Cost of material					288818.00

1	Transportation on material	4.00%	11553
2	T&P on material cost	1.00%	2888
3	Contingencies on material	2.50%	7220
5	Erection cost on material	5.00%	14441
6	Contractor supervision charges on material	5.00%	14441
7	Insurance , Labour & Finance Cost	3.00%	8665
Service Cost			59208
Sub-Total			348026
8	Turnkey Charges	5.00%	17401

Total **365427**

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	465170	365427
Total Cost of the Estimate	465170	365427

Item Code No. 5717					
Replacement of 11 kV VCB 800Amp (Outdoor Type)					

Sr.No.	Description	Unit	Qty	Rate	Amt
1	11 KV VCB 800 A Outdoor	Set	1	117466.00	117466.00
Cost of material					117466.00

1	Transportation on material	4.00%	4699
2	T&P on material cost	1.00%	1175
3	Contingencies on material	2.50%	2937
5	Erection cost on material	5.00%	5873
6	Contractor supervision charges on material	5.00%	5873
7	Insurance , Labour & Finance Cost	3.00%	3524



Service Cost		24081
Sub-Total		141547
8 Turnkey Charges	5.00%	7077

Total 148624

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	189191	148624
Total Cost of the Estimate	189191	148624

Item Code No. 5718					
Replacement of 33 kV Isolator 800Amp (With EB)					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	33 KV Isolators with EB (800 A)	Set	1	55190.00	55190.00
	Cost of material				55190.00

1	Transportation on material	4.00%	2208
2	T&P on material cost	1.00%	552
3	Contingencies on material	2.50%	1380
5	Erection cost on material	5.00%	2760
6	Contractor supervision charges on material	5.00%	2760
7	Insurance , Labour & Finance Cost	3.00%	1656
	Service Cost		11314
	Sub-Total		66504
8	Turnkey Charges	5.00%	3325

Total 69829

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	88889	69829
Total Cost of the Estimate	88889	69829

Item Code No. 5720					
Replacement of 11 kV Isolator Without EB					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	11 KV Isolators without EB (800 Amp.)	Set	1	26630.00	26630.00
	Cost of material				26630.00

1	Transportation on material	4.00%	1065
2	T&P on material cost	1.00%	266
3	Contingencies on material	2.50%	666
5	Erection cost on material	5.00%	1332
6	Contractor supervision charges on material	5.00%	1332
7	Insurance , Labour & Finance Cost	3.00%	799
	Service Cost		5459
	Sub-Total		32089
8	Turnkey Charges	5.00%	1604

Total 33694

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	42890	33694
Total Cost of the Estimate	42890	33694

Item Code No. 5721					
Replacement of 22 kV Isolator Without EB					



Sr.No.	Description	Unit	Qty	Rate	Amt
1	22 KV Isolators without EB (800 Amp.)	Set	1	35680.00	35680.00
Cost of material					35680.00

1	Transportation on material	4.00%			1427
2	T&P on material cost	1.00%			357
3	Contingencies on material	2.50%			892
5	Erection cost on material	5.00%			1784
6	Contractor supervision charges on material	5.00%			1784
7	Insurance , Labour & Finance Cost	3.00%			1070
Service Cost					7314
Sub-Total					42994
8	Turnkey Charges	5.00%			2150

Total **45144**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	57466	45144
Total Cost of the Estimate	57466	45144

Item Code No. 5722					
Replacement of 33 kV Isolator Without EB					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	33 KV Isolators without EB (800 Amp.)	Set	1	50510.00	50510.00
Cost of material					50510.00

1	Transportation on material	4.00%			2020
2	T&P on material cost	1.00%			505
3	Contingencies on material	2.50%			1263
5	Erection cost on material	5.00%			2526
6	Contractor supervision charges on material	5.00%			2526
7	Insurance , Labour & Finance Cost	3.00%			1515
Service Cost					10355
Sub-Total					60865
8	Turnkey Charges	5.00%			3043

Total **63908**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	81351	63908
Total Cost of the Estimate	81351	63908

Item Code No. 5724					
Replacement of 22 kV Lightning Arrestor (Station type)					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	22 KV Lightning Arrestors (Station type)	Set	1	11884.00	11884.00
Cost of material					11884.00

1	Transportation on material	4.00%			475
2	T&P on material cost	1.00%			119
3	Contingencies on material	2.50%			297
5	Erection cost on material	5.00%			594
6	Contractor supervision charges on material	5.00%			594
7	Insurance , Labour & Finance Cost	3.00%			357
Service Cost					2436
Sub-Total					14320
8	Turnkey Charges	5.00%			716

Total **15036**



Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	19140	15036
Total Cost of the Estimate	19140	15036

Item Code No. 5725					
Replacement of 33 kV Lightning Arrestor (Station type)					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	33 KV Lightning Arrestors (Station type)	Set	1	13571.00	13571.00
Cost of material					13571.00

1	Transportation on material	4.00%	543
2	T&P on material cost	1.00%	136
3	Contingencies on material	2.50%	339
5	Erection cost on material	5.00%	679
6	Contractor supervision charges on material	5.00%	679
7	Insurance , Labour & Finance Cost	3.00%	407
Service Cost			2782
Sub-Total			16353
8	Turnkey Charges	5.00%	818

Total 17171

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	21857	17171
Total Cost of the Estimate	21857	17171

Item Code No. 5727					
Replacement of 22 kV Lightning Arrestor (Screw type)					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	22 KV Lightning Arrestors (Screw type)	Set	1	8568.00	8568.00
Cost of material					8568.00

1	Transportation on material	4.00%	343
2	T&P on material cost	1.00%	86
3	Contingencies on material	2.50%	214
5	Erection cost on material	5.00%	428
6	Contractor supervision charges on material	5.00%	428
7	Insurance , Labour & Finance Cost	3.00%	257
Service Cost			1756
Sub-Total			10324
8	Turnkey Charges	5.00%	516

Total 10841

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	13800	10841
Total Cost of the Estimate	13800	10841

Item Code No. 5728					
Replacement of C&R panel with differential protection for 33 kV					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	C&R panel for 33 KV Transformer with Diff. Protection	Set	1	62334.00	62334.00
Cost of material					62334.00

1	Transportation on material	4.00%	2493
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2	T&P on material cost	1.00%	623
3	Contingencies on material	2.50%	1558
5	Erection cost on material	5.00%	3117
6	Contractor supervision charges on material	5.00%	3117
7	Insurance , Labour & Finance Cost	3.00%	1870
	Service Cost		12778
	Sub-Total		75112
8	Turnkey Charges	5.00%	3756

Total **78868**

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	100395	78868
Total Cost of the Estimate	100395	78868

Item Code No. 5729					
Replacement of control pannel 22 kV					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	Replacement of Control Panel 22 KV	Set	1	65982.00	65982.00
	Cost of material				65982.00

1	Transportation on material	4.00%	2639
2	T&P on material cost	1.00%	660
3	Contingencies on material	2.50%	1650
5	Erection cost on material	5.00%	3299
6	Contractor supervision charges on material	5.00%	3299
7	Insurance , Labour & Finance Cost	3.00%	1979
	Service Cost		13526
	Sub-Total		79508
8	Turnkey Charges	5.00%	3975

Total **83484**

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	106271	83484
Total Cost of the Estimate	106271	83484

Item Code No. 5732					
Replacement 30 V, 100 AH Lead Acid Battery sets					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	30 V, 100 AH Lead Acid Battery sets	No.	1	36000.00	36000.00
	Cost of material				36000.00

1	Transportation on material	4.00%	1440
2	T&P on material cost	1.00%	360
3	Contingencies on material	2.50%	900
5	Erection cost on material	5.00%	1800
6	Contractor supervision charges on material	5.00%	1800
7	Insurance , Labour & Finance Cost	3.00%	1080
	Service Cost		7380
	Sub-Total		43380
8	Turnkey Charges	5.00%	2169

Total **45549**

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	57982	45549



Total Cost of the Estimate	57982	45549
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Item Code No. 5733					
Replacement Battery chargers suitable for above					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	Battery chargers suitable for above	No	1	36000.00	36000.00
Cost of material					36000.00
1	Transportation on material		4.00%		1440
2	T&P on material cost		1.00%		360
3	Contingencies on material		2.50%		900
5	Erection cost on material		5.00%		1800
6	Contractor supervision charges on material		5.00%		1800
7	Insurance , Labour & Finance Cost		3.00%		1080
Service Cost					7380
Sub-Total					43380
8	Turnkey Charges		5.00%		2169
Total					45549
Particulars		DPR Amount	Tender/ Estimate Amount		
		61.06%	26.525%		
Cost with overheads on Material		57982	45549		
Total Cost of the Estimate		57982	45549		

Item Code No. 5734					
Replacement of Battery with Battery Charger					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	30 V, 100 AH Lead Acid Battery sets	No	1	36000.00	36000.00
2	Battery chargers suitable for above	No	1	36000.00	36000.00
Cost of material					72000.00
1	Transportation on material		4.00%		2880
2	T&P on material cost		1.00%		720
3	Contingencies on material		2.50%		1800
5	Erection cost on material		5.00%		3600
6	Contractor supervision charges on material		5.00%		3600
7	Insurance , Labour & Finance Cost		3.00%		2160
Service Cost					14760
Sub-Total					86760
8	Turnkey Charges		5.00%		4338
Total					91098
Particulars		DPR Amount	Tender/ Estimate Amount		
		61.06%	26.525%		
Cost with overheads on Material		115963	91098		
Total Cost of the Estimate		115963	91098		

Item Code No. 5740					
Replacement of I/D Switchgear, 11kV, 250 MVA with 2 I/C + 8 OG + 1 B/C					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	11kV I D switchgear (2 I/c+1 B/c+8O/G)	Set	1	3117222.00	3117222.00
Cost of material					3117222.00
1	Transportation on material		4.00%		124689
2	T&P on material cost		1.00%		31172
3	Contingencies on material		2.50%		77931
5	Erection cost on material		5.00%		155861
6	Contractor supervision charges on material		5.00%		155861



7	Insurance , Labour & Finance Cost	3.00%	93517
	Service Cost		639031
	Sub-Total		3756253
8	Turnkey Charges	5.00%	187813

Total **3944065**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	5020598	3944065
Total Cost of the Estimate	5020598	3944065

Item Code No. 5741					
Replacement of O/D Switchgear, 11kV, 250 MVA with 1 I/C + 3 OG +1 B/C					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	11 KV 250 MVA OD switchgear comprising of one incomer ,3 O/G & 1 B/C with associated OD panels, Isolators, CT & PT etc.	Set	1	1069860.00	1069860.00
	Cost of material				1069860.00

1	Transportation on material	4.00%	42794
2	T&P on material cost	1.00%	10699
3	Contingencies on material	2.50%	26747
5	Erection cost on material	5.00%	53493
6	Contractor supervision charges on material	5.00%	53493
7	Insurance , Labour & Finance Cost	3.00%	32096
	Service Cost		219321
	Sub-Total		1289181
8	Turnkey Charges	5.00%	64459

Total **1353640**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	1723117	1353640
Total Cost of the Estimate	1723117	1353640

Item Code No. 5742					
Replacement of O/D Switchgear, 11kV, 250 MVA with 2 I/C + 4 OG					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	11 KV 250 MVA OD switchgear comprising of 2 incomer & 4 single feeders with associated OD pannels , Isolators CT & PT etc	Set	1	1497803.00	1497803.00
	Cost of material				1497803.00

1	Transportation on material	4.00%	59912
2	T&P on material cost	1.00%	14978
3	Contingencies on material	2.50%	37445
5	Erection cost on material	5.00%	74890
6	Contractor supervision charges on material	5.00%	74890
7	Insurance , Labour & Finance Cost	3.00%	44934
	Service Cost		307050
	Sub-Total		1804853
8	Turnkey Charges	5.00%	90243

Total **1895095**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	2412362	1895095
Total Cost of the Estimate	2412362	1895095



Item Code No. 5743					
Replacement of O/D Switchgear, 11kV, 250 MVA with 1 I/C + 1 OG					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	11 KV 250 MVA O.D. Switch gear with one I/C+ one O/G	Set	1	427944.00	427944.00
Cost of material					427944.00

1	Transportation on material	4.00%	17118
2	T&P on material cost	1.00%	4279
3	Contingencies on material	2.50%	10699
5	Erection cost on material	5.00%	21397
6	Contractor supervision charges on material	5.00%	21397
7	Insurance , Labour & Finance Cost	3.00%	12838
Service Cost			87729
Sub-Total			515673
8	Turnkey Charges	5.00%	25784

Total **541456**

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	689247	541456
Total Cost of the Estimate	689247	541456

Item Code No. 5744					
Replacement of I/D Switchgear, 11kV, 500 MVA with 2 I/C + 8 OG + 1 B/C					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	11kV I D switchgear (2 I/c+1 B/c+8O/G)	Set	1	3117222.00	3117222.00
Cost of material					3117222.00

1	Transportation on material	4.00%	124689
2	T&P on material cost	1.00%	31172
3	Contingencies on material	2.50%	77931
5	Erection cost on material	5.00%	155861
6	Contractor supervision charges on material	5.00%	155861
7	Insurance , Labour & Finance Cost	3.00%	93517
Service Cost			639031
Sub-Total			3756253
8	Turnkey Charges	5.00%	187813

Total **3944065**

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	5020598	3944065
Total Cost of the Estimate	5020598	3944065

Item Code No. 5745							
33 kV Isolator ,800 A without EB							
Sr. No.	Description of Material	Unit	QTY	Rate/Unit	Rs.	Amount	Rs.
1	33 KV Isolators without EB (800 Amp.)	Set	1.00	50510.00		50510.00	
Cost of material						50510.00	

1	Transportation on material	4.00%	2020
2	T&P on material cost	1.00%	505
3	Contingencies on material	2.50%	1263
5	Erection cost on material	5.00%	2526
6	Contractor supervision charges on material	5.00%	2526
7	Insurance , Labour & Finance Cost	3.00%	1515
Service Cost			10355



Sub-Total 60865
 8 Turnkey Charges 5.00% 3043

Total **63908**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	81351	63908
Total Cost of the Estimate	81351	63908

Item Code No. 5746							
33 kV Isolator ,800 A without EB with structure and PT							
Sr. No.	Description of Material	Unit	QTY	Rate/Unit	Rs.	Amount	Rs.
1	33 KV P.T.	No	3	18876.00		56628.00	
2	33 KV Isolators without EB (800 Amp.)	Set	1	50510.00		50510.00	
4	AAAC 100 mm2	mtr	300.00	51.82		15546.00	
3	Structure for 33 KV PT	Kg	315	51.80		16317.00	
5	Marshalling Box	No	1	4284.00		4284.00	
6	Armoured Copper control cable 4C X 2.5 Sq mm	m	50	87.60		4380.00	
7	Disc Insulator 11 KV 70 KN	No	18	344.00		6192.00	
8	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	3	322.00		966.00	
9	G.I.Nut Boltss Washer & Misc Material	LS	1	2060.00		2060.00	
	Cost of material			Total		156883.00	

1 Transportation on material 4.00% 6275
 2 T&P on material cost 1.00% 1569
 3 Contingencies on material 2.50% 3922
 5 Erection cost on material 5.00% 7844
 6 Contractor supervision charges on material 5.00% 7844
 7 Insurance , Labour & Finance Cost 3.00% 4706
Service Cost **32161**
Sub-Total **189044**
 8 Turnkey Charges 5.00% 9452

Total **198496**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	252676	198496
Total Cost of the Estimate	252676	198496

Item Code No. 5747							
11 kV Isolator ,400 A with EB (Indoor)							
Sr. No.	Description of Material	Unit	QTY	Rate/Unit	Rs.	Amount	Rs.
1	11 KV Isolator with EB 400 A	Set	1	27267.00		27267.00	
	Cost of material			Total		27267.00	

1 Transportation on material 4.00% 1091
 2 T&P on material cost 1.00% 273
 3 Contingencies on material 2.50% 682
 5 Erection cost on material 5.00% 1363
 6 Contractor supervision charges on material 5.00% 1363
 7 Insurance , Labour & Finance Cost 3.00% 818
Service Cost **5590**
Sub-Total **32857**
 8 Turnkey Charges 5.00% 1643

Total **34500**

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Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	43916	34500
Total Cost of the Estimate	43916	34500

Item Code No. 5748					
Replacement of 33/11 kv 5 MVA Power transformer					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	Power Transformer 33/11 KV, 5 MVA	No	1	3003469.00	3003469.00
Cost of material				Total	3003469.00

1	Transportation on material	4.00%	120139
2	T&P on material cost	1.00%	30035
3	Contingencies on material	2.50%	75087
5	Erection cost on material	5.00%	150173
6	Contractor supervision charges on material	5.00%	150173
7	Insurance , Labour & Finance Cost	3.00%	90104
Service Cost			615711
Sub-Total			3619180
8	Turnkey Charges	5.00%	180959

Total			3800139
Particulars	DPR Amount	Tender/ Estimate Amount	
	61.06%	26.525%	
Cost with overheads on Material	4837387	3800139	
Total Cost of the Estimate	4837387	3800139	

Item Code No. 5749					
Replacement of 33/11 kv 5 MVA Power transformer					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	Power Transformer 33/11 KV, 10 MVA	No	1	4687202.00	4687202.00
Cost of material				Total	4687202.00

1	Transportation on material	4.00%	187488
2	T&P on material cost	1.00%	46872
3	Contingencies on material	2.50%	117180
5	Erection cost on material	5.00%	234360
6	Contractor supervision charges on material	5.00%	234360
7	Insurance , Labour & Finance Cost	3.00%	140616
Service Cost			960876
Sub-Total			5648078
8	Turnkey Charges	5.00%	282404

Total			5930482
Particulars	DPR Amount	Tender/ Estimate Amount	
	61.06%	26.525%	
Cost with overheads on Material	7549208	5930482	
Total Cost of the Estimate	7549208	5930482	

Item Code No. 5751					
Replacement of 22/11 kv 5 MVA Power transformer					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	1	3305209.00	3305209.00
Cost of material				Total	3305209.00

1	Transportation on material	4.00%	132208
2	T&P on material cost	1.00%	33052



3	Contingencies on material	2.50%	82630
5	Erection cost on material	5.00%	165260
6	Contractor supervision charges on material	5.00%	165260
7	Insurance , Labour & Finance Cost	3.00%	99156
	Service Cost		677568
	Sub-Total		3982777
8	Turnkey Charges	5.00%	199139

Total **4181916**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	5323370	4181916
Total Cost of the Estimate	5323370	4181916

Item Code No. 5752					
Replacement of 22/11 kv 5 MVA Power transformer					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	1	4769649.00	4769649.00
	Cost of material			Total	4769649.00

1	Transportation on material	4.00%	190786
2	T&P on material cost	1.00%	47696
3	Contingencies on material	2.50%	119241
5	Erection cost on material	5.00%	238482
6	Contractor supervision charges on material	5.00%	238482
7	Insurance , Labour & Finance Cost	3.00%	143089
	Service Cost		977778
	Sub-Total		5747427
8	Turnkey Charges	5.00%	287371

Total **6034798**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	7681997	6034798
Total Cost of the Estimate	7681997	6034798

Item Code No. 5802A					
Replacement of DB's for 25/63 KVA Distribution transformer with Kitkat DB					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	L.T.Dist.Boxes 25/63 KVA with KITKAT	No	1	10800.00	10800.00
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	57.40	287.00
3	Earthing with GI pipe	LS	1	291.00	291.00
4	Sundries	LS	1	810.00	810.00
5	MS angle 50x50x6 mm	Kg	20.00	51.80	1036.00
	Cost of Material				13224.00

1	Transportation on material	4.00%	529
2	T&P on material cost	1.00%	132
3	Contingencies on material	2.50%	331
5	Erection cost on material	15.00%	1984
6	Contractor supervision charges on material	5.00%	661
7	Insurance , Labour & Finance Cost	3.00%	397
	Service Cost		4033
	Sub-Total		17257
8	Turnkey Charges	5.00%	863

Total **18120**

Particulars	DPR Amount	Tender/ Estimate Amount



Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	23012	18120
Total Cost of the Estimate	23012	18120

Item Code No. 5802B					
Replacement of DB's for 100 KVA Distribution transformer with Kitkat DB					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	11834.00	11834.00
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	57.40	287.00
3	Earthing with GI pipe	LS	1	291.00	291.00
4	Sundries	LS	1	810.00	810.00
5	MS angle 50x50x6 mm	Kg	20.00	51.80	1036.00
Cost of Material					14258.00

1	Transportation on material	4.00%	570
2	T&P on material cost	1.00%	143
3	Contingencies on material	2.50%	356
5	Erection cost on material	15.00%	2139
6	Contractor supervision charges on material	5.00%	713
7	Insurance , Labour & Finance Cost	3.00%	428
Service Cost			4349
Sub-Total			18607
8	Turnkey Charges	5.00%	930

Total **19537**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	24812	19537
Total Cost of the Estimate	24812	19537

Item Code No. 5803					
Replacement of DB's for 200 KVA Distribution transformer with Kitkat DB					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	L.T.Dist.Boxes 200 KVA with KitKat	No	1	23400.00	23400.00
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	57.40	287.00
3	Earthing with GI pipe	LS	1	291.00	291.00
4	Sundries	LS	1	810.00	810.00
5	MS angle 50x50x6 mm	Kg	20.00	51.80	1036.00
Cost of Material					25824.00

1	Transportation on material	4.00%	1033
2	T&P on material cost	1.00%	258
3	Contingencies on material	2.50%	646
5	Erection cost on material	15.00%	3874
6	Contractor supervision charges on material	5.00%	1291
7	Insurance , Labour & Finance Cost	3.00%	775
Service Cost			7876
Sub-Total			33700
8	Turnkey Charges	5.00%	1685

Total **35385**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	44939	35385
Total Cost of the Estimate	44939	35385



Item Code No. 5804

Replacement of DB's for 315 KVA Distribution transformer with 6 way feeder pillar with ACB

Sr.No	Description	Unit	Qty.	Rate	Amount
1	6 way feeder pillar with ACB	No	1	61963.00	61963.00
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	57.40	287.00
3	Earthing with GI pipe	LS	1	291.00	291.00
4	Sundries	LS	1	810.00	810.00
5	MS angle 50x50x6 mm	Kg	20.00	51.80	1036.00
Cost of Material					64387.00

1	Transportation on material	4.00%	2575
2	T&P on material cost	1.00%	644
3	Contingencies on material	2.50%	1610
5	Erection cost on material	15.00%	9658
6	Contractor supervision charges on material	5.00%	3219
7	Insurance , Labour & Finance Cost	3.00%	1932
Service Cost			19638
Sub-Total			84025
8	Turnkey Charges	5.00%	4201

Total **88226**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	112046	88226
Total Cost of the Estimate	112046	88226

Item Code No. 5805

Replacement of LT C.T. Operated Electronic Meter 100/5A with Communication Port RS-232.

Sr.No	Description	Unit	Qty.	Rate	Amount
1	100/5A CT Operated Meter	No.	1.00	4282.00	4282.00
Cost of Material					4282.00

1	Transportation on material	4.00%	171
2	T&P on material cost	1.00%	43
3	Contingencies on material	2.50%	107
5	Erection cost on material	15.00%	642
6	Contractor supervision charges on material	5.00%	214
7	Insurance , Labour & Finance Cost	3.00%	128
Service Cost			1306
Sub-Total			5588
8	Turnkey Charges	5.00%	279

Total **5867**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	7452	5867
Total Cost of the Estimate	7452	5867

Item Code No. 5806

Replacement of DB's for 63/100 KVA Distribution transformer with MCCB DB

Sr.No	Description	Unit	Qty.	Rate	Amount
1	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	57.40	287.00
3	Earthing with GI pipe	LS	1	291.00	291.00
4	Sundries	LS	1	810.00	810.00
5	MS angle 50x50x6 mm	Kg	20.00	51.80	1036.00
Cost of Material					15246.00

1	Transportation on material	4.00%	610
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2	T&P on material cost	1.00%	152
3	Contingencies on material	2.50%	381
5	Erection cost on material	15.00%	2287
6	Contractor supervision charges on material	5.00%	762
7	Insurance , Labour & Finance Cost	3.00%	457
	Service Cost		4650
	Sub-Total		19896
8	Turnkey Charges	5.00%	995

Total **20891**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	26531	20891
Total Cost of the Estimate	26531	20891

Item Code No. 5807

Replacement of DB's for 200 KVA Distribution transformer with MCCB DB

Sr.No	Description	Unit	Qty.	Rate	Amount
1	L.T.Dist.Boxes 200 KVA with MCCB	No	1	24768.00	24768.00
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	57.40	287.00
3	Earthing with GI pipe	LS	1	291.00	291.00
4	Sundries	LS	1	810.00	810.00
5	MS angle 50x50x6 mm	Kg	20.00	51.80	1036.00
	Cost of Material				27192.00

1	Transportation on material	4.00%	1088
2	T&P on material cost	1.00%	272
3	Contingencies on material	2.50%	680
5	Erection cost on material	15.00%	4079
6	Contractor supervision charges on material	5.00%	1360
7	Insurance , Labour & Finance Cost	3.00%	816
	Service Cost		8294
	Sub-Total		35486
8	Turnkey Charges	5.00%	1774

Total **37260**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	47320	37260
Total Cost of the Estimate	47320	37260

Item Code No. 5808

Replacement of DB's for 315 KVA Distribution transformer with 6 way feeder pillar with ACB

Sr.No	Description	Unit	Qty.	Rate	Amount
1	6 way feeder pillar with ACB	No	1	61963.00	61963.00
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	57.40	287.00
3	Earthing with GI pipe	LS	1	291.00	291.00
4	Sundries	LS	1	810.00	810.00
5	MS angle 50x50x6 mm	Kg	20.00	51.80	1036.00
	Cost of Material				64387.00

1	Transportation on material	4.00%	2575
2	T&P on material cost	1.00%	644
3	Contingencies on material	2.50%	1610
5	Erection cost on material	15.00%	9658
6	Contractor supervision charges on material	5.00%	3219
7	Insurance , Labour & Finance Cost	3.00%	1932
	Service Cost		19638
	Sub-Total		84025



8 Turnkey Charges

5.00%

4201

Total

88226

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	112046	88226
Total Cost of the Estimate	112046	88226

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Item Code No. 5816					
Replacement of 11 kV Pin Insulator with pin					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	11 kV Pin Insulators with G.I. Pins	No.	1.00	135.00	135.00
Cost of Material					135.00

1	Transportation on material	4.00%	5
2	T&P on material cost	1.00%	1
3	Contingencies on material	2.50%	3
5	Erection cost on material	15.00%	20
6	Contractor supervision charges on material	5.00%	7
7	Insurance , Labour & Finance Cost	3.00%	4
Service Cost			41
Sub-Total			176
8	Turnkey Charges	5.00%	9

Total

185

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	235	185
Total Cost of the Estimate	235	185

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Item Code No. 5817					
Replacement of 22 kV Pin Insulators with G.I. Pins					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	22 kV Pin Insulators with G.I. Pins	No.	1.00	336.00	336.00
Cost of Material					336.00

1	Transportation on material	4.00%	13
2	T&P on material cost	1.00%	3
3	Contingencies on material	2.50%	8
5	Erection cost on material	15.00%	50
6	Contractor supervision charges on material	5.00%	17
7	Insurance , Labour & Finance Cost	3.00%	10
Service Cost			102
Sub-Total			438
8	Turnkey Charges	5.00%	22

Total

460

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	585	460
Total Cost of the Estimate	585	460

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Item Code No. 5818					
Replacement of 33 kV Pin Insulator with pin					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	33 kV Pin Insulators with G.I. Pins	No.	1.00	541.00	541.00



Cost of Material				541.00
1	Transportation on material	4.00%		22
2	T&P on material cost	1.00%		5
3	Contingencies on material	2.50%		14
5	Erection cost on material	15.00%		81
6	Contractor supervision charges on material	5.00%		27
7	Insurance , Labour & Finance Cost	3.00%		16
Service Cost				165
Sub-Total				706
8	Turnkey Charges	5.00%		35

Total **741**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	941	741
Total Cost of the Estimate	941	741

Item Code No. 5819

Replacement of 11 kV Disc Insulator

Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Disc Insulator 11 KV 70 KN	No	1	344.00	344.00
Cost of material					344.00

1	Transportation on material	4.00%		14
2	T&P on material cost	1.00%		3
3	Contingencies on material	2.50%		9
5	Erection cost on material	15.00%		52
6	Contractor supervision charges on material	5.00%		17
7	Insurance , Labour & Finance Cost	3.00%		10
Service Cost				105
Sub-Total				449
8	Turnkey Charges	5.00%		22

Total **471**

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	599	471
Total Cost of the Estimate	599	471

Item Code No. 5901

Replacement of RSJ pole with required Accessories 100 X 116, 11 Mt

Sr.No	Description of Material	Unit	Qty.	Rate in Rs.	Amount
1	RSJ 116x100, 11 m long	No.	1	11311.00	11311.00
2	M.S. Flats(50 X 10mm)	Kg	7.0	48.50	339.50
3	MS Channel 100x50x6 mm	Kg	33	51.80	1709.40
4	MS angle 50x50x6 mm	Kg	14	51.80	725.20
5	22 kV Pin Insulators with G.I. Pins	No	3	336.00	1008.00
6	H.T.Stay Set	Set	1	598.00	598.00
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	8.000	57.45	459.60
8	G.I.Wire 8 SWG/ 6 SWG	Kg.	3.000	57.40	172.20
9	Danger Board in yard.	No	1	50.00	50.00
10	Earthing Sets H.T	Set	1	342.00	342.00
11	G.I.Barbed Wire 'A' type.	Kg.	5.000	64.27	321.35
12	Sundries	LS	1	810.00	810.00
12	Concreting ration 1:3:6	Cmt.	0.5	3027.00	1513.50
Cost of material					19359.75

1	Transportation on material	4.00%		774
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2	T&P on material cost	1.00%	194
3	Contingencies on material	2.50%	484
5	Erection cost on material	15.00%	2904
6	Contractor supervision charges on material	5.00%	968
7	Insurance , Labour & Finance Cost	3.00%	581
	Service Cost		5905
	Sub-Total		25264
8	Turnkey Charges	5.00%	1263

Total **26528**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	33690	26528
Total Cost of the Estimate	33690	26528

Item Code No. 5903

Replacement of RSJ pole with required Accessories 100 X 116, 10 Mt

Sr.No	Description of Material	Unit	Qty.	Rate in Rs.	Amount
1	RSJ 116x100, 10 m long	No.	1	10283.00	10283.00
2	M.S. Flats(50 X 10mm)	Kg	7.0	48.50	339.50
3	MS Channel 100x50x6 mm	Kg	33	51.80	1709.40
4	MS angle 50x50x6 mm	Kg	14	51.80	725.20
5	22 kV Pin Insulators with G.I. Pins	No	3	336.00	1008.00
6	H.T.Stay Set	Set	1	598.00	598.00
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	8.000	57.45	459.60
8	G.I.Wire 8 SWG/ 6 SWG	Kg.	3.000	57.40	172.20
9	Danger Board in yard.	No	1	50.00	50.00
10	Earthing Sets H.T	Set	1	342.00	342.00
11	G.I.Barbed Wire 'A' type.	Kg.	5.000	64.27	321.35
12	Sundries	LS	1	810.00	810.00
12	Concreting ration 1:3:6	Cmt.	0.5	3027.00	1513.50

Cost of material **18331.75**

1	Transportation on material	4.00%	733
2	T&P on material cost	1.00%	183
3	Contingencies on material	2.50%	458
5	Erection cost on material	15.00%	2750
6	Contractor supervision charges on material	5.00%	917
7	Insurance , Labour & Finance Cost	3.00%	550
	Service Cost		5591
	Sub-Total		23923
8	Turnkey Charges	5.00%	1196

Total **25119**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	31901	25119
Total Cost of the Estimate	31901	25119

Item Code No. 5904

Replacement of RSJ pole 152 X 152, 13 Mt

Sr.No	Description of Material	Unit	Qty.	Rate in Rs.	Amount
1	RSJ 152x152, 13 m long	No.	1	21562.00	21562.00
2	MS Channel 100x50x6 mm	Kg.	33	51.80	1709.40
3	G.I.Angle 50x50x6mm	Kg.	14	70.08	981.12
4	G.I Flat 50x10 mm	Kg.	7	66.78	467.46
5	33 kV Pin Insulators with G.I. Pins	No.	3	541.00	1623.00
6	Earthing Sets H.T	Set	1	342.00	342.00
7	H.T.Stay Set	Set	1	598.00	598.00



8	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	8.000	57.45	459.60
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	57.40	114.80
10	G.I.Nut Bolts	Kg.	1	82.90	82.90
11	Sundries	LS	1	810.00	810.00
12	Concreting ration 1:3:6	Cmt.	0.5	3027.00	1513.50

Cost of material **28750.28**

1	Transportation on material	4.00%	1150
2	T&P on material cost	1.00%	288
3	Contingencies on material	2.50%	719
5	Erection cost on material	15.00%	4313
6	Contractor supervision charges on material	5.00%	1438
7	Insurance , Labour & Finance Cost	3.00%	863

Service Cost **8769**

Sub-Total **37519**

8	Turnkey Charges	5.00%	1876
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Total **39395**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	50031	39395
Total Cost of the Estimate	50031	39395

Item Code No. 5905
Replacement of RSJ pole 152 X 152, 11 Mt

Sr.No	Description of Material	Unit	Qty.	Rate in Rs.	Amount
1	RSJ 152x152, 11 m long	No.	1	18245.00	18245.00
2	MS Channel 100x50x6 mm	Kg.	33	51.80	1709.40
3	G.I.Angle 50x50x6mm	Kg.	14	70.08	981.12
4	G.I Flat 50x10 mm	Kg.	7	66.78	467.46
5	33 kV Pin Insulators with G.I. Pins	No.	3	541.00	1623.00
6	Earthing Sets H.T	Set	1	342.00	342.00
7	H.T.Stay Set	Set	1	598.00	598.00
8	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	8.000	57.45	459.60
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	57.40	114.80
10	G.I.Nut Bolts	Kg.	1	82.90	82.90
11	Sundries	LS	1	810.00	810.00
12	Concreting ration 1:3:6	Cmt.	0.5	3027.00	1513.50

Cost of material **26946.78**

1	Transportation on material	4.00%	1078
2	T&P on material cost	1.00%	269
3	Contingencies on material	2.50%	674
5	Erection cost on material	15.00%	4042
6	Contractor supervision charges on material	5.00%	1347
7	Insurance , Labour & Finance Cost	3.00%	808

Service Cost **8219**

Sub-Total **35166**

8	Turnkey Charges	5.00%	1758
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Total **36924**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	46893	36924
Total Cost of the Estimate	46893	36924

Item Code No. 5906
Replacement of HT poles RSJ 9 mtr 100 X 116 mm

Sr.No	Particulars	Unit	Qty.	Rate	Amount
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1	RSJ 116x100, 9 m long	No	1.00	9254.00	9254.00
2	M.S. Flats(50 X 10mm)	Kg	7.0	48.50	339.50
3	MS Channel 100x50x6 mm	Kg	33	51.80	1709.40
4	MS angle 50x50x6 mm	Kg	14	51.80	725.20
5	22 kV Pin Insulators with G.I. Pins	No	3	336.00	1008.00
6	H.T.Stay Set	Set	1	598.00	598.00
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	8.000	57.45	459.60
8	G.I.Wire 8 SWG/ 6 SWG	Kg.	3.000	57.40	172.20
9	Danger Board in yard.	No	1	50.00	50.00
10	Earthing Sets H.T	Set	1	342.00	342.00
11	G.I.Barbed Wire 'A' type.	Kg.	5.000	64.27	321.35
12	Sundries	LS	1	810.00	810.00
13	Concreting ration 1:3:6	Cmt.	0.50	3027.00	1513.50
Cost of material					17302.75

1	Transportation on material	4.00%	692
2	T&P on material cost	1.00%	173
3	Contigencies on material	2.50%	433
5	Erection cost on material	15.00%	2595
6	Contractor supervision charges on material	5.00%	865
7	Insurance , Labour & Finance Cost	3.00%	519
Service Cost			5277
Sub-Total			22580
8	Turnkey Charges	5.00%	1129

Total **23709**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	30110	23709
Total Cost of the Estimate	30110	23709

Item Code No. 5907					
Replacement of HT poles RSJ 9 mtr 116 X 100 mm					
Sr.No	Particulars	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	No	1.00	9254.00	9254.00
2	M.S. Flats(50 X 10mm)	Kg	7.0	48.50	339.50
3	M.S.Channel 75x40x6 mm	Kg	23	51.80	1191.40
4	MS angle 50x50x6 mm	Kg	14	51.80	725.20
5	11 kV Pin Insulators with G.I. Pins	No	3	135.00	405.00
6	H.T.Stay Set	Set	1	598.00	598.00
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	8.000	57.45	459.60
8	G.I.Wire 8 SWG/ 6 SWG	Kg.	3.000	57.40	172.20
9	Danger Board in yard.	No	1	50.00	50.00
10	Earthing Sets H.T	Set	1	342.00	342.00
11	G.I.Barbed Wire 'A' type.	Kg.	5.000	64.27	321.35
12	Sundries	LS	1	810.00	810.00
13	Concreting ration 1:3:6	Cmt.	0.50	3027.00	1513.50
Cost of material					16181.75

1	Transportation on material	4.00%	647
2	T&P on material cost	1.00%	162
3	Contigencies on material	2.50%	405
5	Erection cost on material	15.00%	2427
6	Contractor supervision charges on material	5.00%	809
7	Insurance , Labour & Finance Cost	3.00%	485
Service Cost			4935
Sub-Total			21117
8	Turnkey Charges	5.00%	1056

Total **22173**

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Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	28159	22173
Total Cost of the Estimate	28159	22173

Item Code No. 5908					
Replacement of LT poles with required accessories (125 X 70 mm X 9 M) with stay					
Sr.No	Particulars	Unit	Qty.	Rate	Amount
1	RSJ 125x70, 9 m long	No	1	5268.00	5268.00
2	MS angle 50x50x6 mm	Kg	5	51.80	259.00
3	MS Flat 50 X 8 mm	Kg	1.5	48.50	72.75
4	L.T.Shackle Insulator	No	4	10.00	40.00
5	L.T.Shackle hardware	Pair	4	37.00	148.00
6	Earthing Sets L.T.	Set	1	166.00	166.00
7	L.T. Stay sets	Set	1	472.00	472.00
8	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	7.000	57.45	402.15
9	Painting/Hardware & support with numbering of pole	No	1	225.00	225.00
10	G.I.Wire 8 SWG/ 6 SWG	Kg.	2.000	57.40	114.80
11	Sundries	LS	1	810.00	810.00
12	Concreting ration 1:3:6	Cmt.	0.30	3027.00	908.10
Cost of material					8885.80

1	Transportation on material	4.00%	355
2	T&P on material cost	1.00%	89
3	Contingencies on material	2.50%	222
5	Erection cost on material	15.00%	1333
6	Contractor supervision charges on material	5.00%	444
7	Insurance , Labour & Finance Cost	3.00%	267
Service Cost			2710
Sub-Total			11596
8	Turnkey Charges	5.00%	580
Total			12176

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	15463	12176
Total Cost of the Estimate	15463	12176

Item Code No. 5909					
Replacement of LT poles with required accessories (125 X 70 mm X 8 M) with stay					
Sr.No	Particulars	Unit	Qty.	Rate	Amount
1	RSJ 125x70, 8 m long	No	1	4683.00	4683.00
2	MS angle 50x50x6 mm	Kg	5	51.80	259.00
3	MS Flat 50 X 8 mm	Kg	1.5	48.50	72.75
4	L.T.Shackle Insulator	No	4	10.00	40.00
5	L.T.Shackle hardware	Pair	4	37.00	148.00
6	Earthing Sets L.T.	Set	1	166.00	166.00
7	L.T. Stay sets	Set	1	472.00	472.00
8	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	7.000	57.45	402.15
9	Painting/Hardware & support with numbering of pole	No	1	225.00	225.00
10	G.I.Wire 8 SWG/ 6 SWG	Kg.	2.000	57.40	114.80
11	Sundries	LS	1	810.00	810.00
12	Concreting ration 1:3:6	Cmt.	0.30	3027.00	908.10
Cost of material					8300.80

1	Transportation on material	4.00%	332
2	T&P on material cost	1.00%	83
3	Contingencies on material	2.50%	208
5	Erection cost on material	15.00%	1245
6	Contractor supervision charges on material	5.00%	415



7	Insurance , Labour & Finance Cost	3.00%	249
	Service Cost		2532
	Sub-Total		10833
8	Turnkey Charges	5.00%	542

Total **11374**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	14445	11374
Total Cost of the Estimate	14445	11374

Item Code No. 5912
Cost data for Replacement of LT RSJ 125 x 75, 9 Mt pole

Sr.No	Description of Material	Unit	Qty.	Rate in Rs.	Amount
1	RSJ 125x70, 9 m long	No.	1	5268.00	5268.00
2	Concreting ration 1:3:6	Cmt.	0.30	3027.00	908.10

Cost of material **5268.00**

1	Transportation on material	4.00%	211
2	T&P on material cost	1.00%	53
3	Contingencies on material	2.50%	132
5	Erection cost on material	15.00%	790
6	Contractor supervision charges on material	5.00%	263
7	Insurance , Labour & Finance Cost	3.00%	158
	Service Cost		1607
	Sub-Total		6875
8	Turnkey Charges	5.00%	344

Total **7218**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	9167	7218
Total Cost of the Estimate	9167	7218

Item Code No. 6001
Replacement of 1 phase meter

Sr.No	Description of Material	Unit	Qty.	Rate in Rs.	Amount
1	S.P. meter with 6LoWPAN tech. with enclosure	No.	1	951.00	951.00

Cost of material **951.00**

1	Transportation on material	4.00%	38
2	T&P on material cost	1.00%	10
3	Contingencies on material	2.50%	24
5	Erection cost on material	15.00%	143
6	Contractor supervision charges on material	5.00%	48
7	Insurance , Labour & Finance Cost	3.00%	29
	Service Cost		290
	Sub-Total		1241
8	Turnkey Charges	5.00%	62

Total **1303**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	1655	1303
Total Cost of the Estimate	1655	1303



Item Code No. 6002

Replacement of 3 phase meter

Sr.No	Description of Material	Unit	Qty.	Rate in Rs.	Amount
1	LTAC T.P. 10-40A IR port meter	No.	1	N/A	#VALUE!

Cost of material

#VALUE!

1	Transportation on material	4.00%	#VALUE!
2	T&P on material cost	1.00%	#VALUE!
3	Contingencies on material	2.50%	#VALUE!
5	Erection cost on material	15.00%	#VALUE!
6	Contractor supervision charges on material	5.00%	#VALUE!
7	Insurance , Labour & Finance Cost	3.00%	#VALUE!

Service Cost

#VALUE!

Sub-Total

#VALUE!

8	Turnkey Charges	5.00%	#VALUE!
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Total

#VALUE!

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	#VALUE!	#VALUE!
Total Cost of the Estimate	#VALUE!	#VALUE!

Item Code No. 6003

Replacement of CT operated meter

Sr.No	Description of Material	Unit	Qty.	Rate in Rs.	Amount
1	LTAC T.P. CT embedded 40-200 A Meter (for loads above 20kW)	No.	1	13212.00	13212.00

Cost of material

13212.00

1	Transportation on material	4.00%	528
2	T&P on material cost	1.00%	132
3	Contingencies on material	2.50%	330
5	Erection cost on material	15.00%	1982
6	Contractor supervision charges on material	5.00%	661
7	Insurance , Labour & Finance Cost	3.00%	396

Service Cost

4030

Sub-Total

17242

8	Turnkey Charges	5.00%	862
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Total

18104

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	22992	18104
Total Cost of the Estimate	22992	18104

Item Code No. 6106

Replacement of Mini Pillars

Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	L.T. Mini Feeder Pillar	No	1	8830.00	8830.00
2	Earthing with GI pipe	No	2	291.00	582.00
3	Concreting ration 1:3:6	L. S.	1	3027.00	3027.00
4	G.I.Strip (25 X 3 mm)	KG	2	66.78	133.56
5	Sundries	L. S.	1	810.00	810.00

Cost of material

13382.56

1	Transportation on material	4.00%	535
2	T&P on material cost	1.00%	134
3	Contingencies on material	2.50%	335
5	Erection cost on material	15.00%	2007
6	Contractor supervision charges on material	5.00%	669



7	Insurance , Labour & Finance Cost	3.00%	401
	Service Cost		4082
	Sub-Total		17464
8	Turnkey Charges	5.00%	873

Total **18337**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	23288	18337
Total Cost of the Estimate	23288	18337

Item Code No. 6201

Replacement of 3 Panel Ring Main Unit with 4 Panel Ring Main Unit, 11 kV

Sr.No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	11 kV SF6, Motorized, SCADA Compatible RMU 3 Iso + 1 Br	Set	1	406719.00	406719.00
2	11 kV heat shrinkable Indoor termination joint kit for 3 C X 185 sqmm	No	2	1538.00	3076.00
3	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No	1	1169.00	1169.00
4	Earthing with GI pipe	No	2	291.00	582.00
5	G.I.Strip (25 X 3 mm)	kg	2	66.78	133.56
6	Sundries such as N/B, Washers, Welding etc.	Ls	1	2900.00	2900.00

Total Cost **414579.56**

1	Transportation on material	4.00%	16583
2	T&P on material cost	1.00%	4146
3	Contingencies on material	2.50%	10364
5	Erection cost on material	15.00%	62187
6	Contractor supervision charges on material	5.00%	20729
7	Insurance , Labour & Finance Cost	3.00%	12437
	Service Cost		126447
	Sub-Total		541026
8	Turnkey Charges	5.00%	27051

Total **568078**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	721451	568078
Total Cost of the Estimate	721451	568078

Item Code No. 6202

Replacement of Ring Main Unit (SF - 6) (3 Isolators + 1 Breaker)

Sr.No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	11 kV SF6, Motorized, SCADA Compatible RMU 3 Iso + 1 Br	Set	1	406719.00	406719.00
2	Foundation Structure for RMU for Cable Entry Etc.	No	1	20036.60	20036.60
3	Earthing to equipment with Salt ,Coke, earthing strip Etc.	No	1	13000.00	13000.00
4	Sundries such as N/B, Washers, Welding etc.	kg	1	2900.00	2900.00

Total Cost **442655.60**

1	Transportation on material	4.00%	17706
2	T&P on material cost	1.00%	4427
3	Contingencies on material	2.50%	11066
5	Erection cost on material	15.00%	66398
6	Contractor supervision charges on material	5.00%	22133
7	Insurance , Labour & Finance Cost	3.00%	13280
	Service Cost		135010
	Sub-Total		577666
8	Turnkey Charges	5.00%	28883

Total **606549**



9 Foundation for RMU LS 1 17076.59 17077
Total Cost of Estimate 623625

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	770309	606549
Foundation for RMU	0	0
Total Cost of the Estimate	770309	606549

Item Code No. 6203

Replacement of Ring Main Unit (SF - 6) (2 Isolators + 2 Breaker)

Sr.No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso + 2 Br	Set	1	492900.00	492900.00
2	Foundation Structure for RMU for Cable Entry Etc.	No	1	20036.60	20036.60
3	Earthing to equipment with Salt ,Coke, earthing strip Etc.	No	1	13000.00	13000.00
4	Sundries such as N/B, Washers, Welding etc.	kg	1	2900.00	2900.00

Total Cost 528836.60

- 1 Transportation on material 4.00% 21153
- 2 T&P on material cost 1.00% 5288
- 3 Contingencies on material 2.50% 13221
- 5 Erection cost on material 15.00% 79325
- 6 Contractor supervision charges on material 5.00% 26442
- 7 Insurance , Labour & Finance Cost 3.00% 15865

Service Cost 161295

Sub-Total 690132

- 8 Turnkey Charges 5.00% 34507

Total 724638

9 Foundation for RMU LS 1 17076.59 17077
Total Cost of Estimate 741715

Particulars		
	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	920281	724638
Foundation for RMU	0	0
Total Cost of the Estimate	920281	724638

Item Code No. 6204

Replacement of Indoor Ring Main Unit (SF - 6) (3 Isolators + 2 Breaker) 22 kV

Sr.No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	22 kV SF6, Motorized, SCADA Compatible RMU 3 Iso + 2 Br	Set	1	696500.00	696500.00
2	Foundation Structure for RMU for Cable Entry Etc.	No	1	20036.60	20036.60
3	Earthing to equipment with Salt ,Coke, earthing strip Etc.	No	1	13000.00	13000.00
4	Sundries such as N/B, Washers, Welding etc.	kg	1	2900.00	2900.00

Total Cost 732436.60

- 1 Transportation on material 4.00% 29297
- 2 T&P on material cost 1.00% 7324
- 3 Contingencies on material 2.50% 18311
- 5 Erection cost on material 15.00% 109865
- 6 Contractor supervision charges on material 5.00% 36622
- 7 Insurance , Labour & Finance Cost 3.00% 21973

Service Cost 223393

Sub-Total 955830

- 8 Turnkey Charges 5.00% 47791

Total 1003621



9 Foundation for RMU LS 1 17076.59 17077
Total Cost of Estimate 1020698

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
	Cost with overheads on Material	1274586
Foundation for RMU	0	0
Total Cost of the Estimate	1274586	1003621

Item Code No. 6701					
11KV A.B. Switch, 400 A					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
2	M.S. Flats(50 X 10mm)	Kg	25	48.50	1212.50
3	M.S.Channel 75x40x6 mm	Kg	43	51.80	2206.68
4	Sundries	LS	1	810.00	810.00
Cost of Material					13469.18

1	Transportation on material	4.00%	539
2	T&P on material cost	1.00%	135
3	Contingencies on material	2.50%	337
5	Erection cost on material	15.00%	2020
6	Contractor supervision charges on material	5.00%	673
7	Insurance , Labour & Finance Cost	3.00%	404
Service Cost			4108
Sub-Total			17577
8	Turnkey Charges	5.00%	879

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
	Cost with overheads on Material	23439
Total Cost of the Estimate	23439	18456

Item Code No. 6723					
11 kV A.B. Switch 400 Amp with DP structure.					
Sr.No	Description of Material	Unit	Qty.	Rate	Amount
1	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
2	MS Channel 100x50x6 mm	Kg	51	51.80	2621.08
3	M.S.Channel 75x40x6 mm	Kg	32	51.80	1657.60
4	H.T.Stay Set	Set	4	598.00	2392.00
5	Strain Hardware forWeasel/Squirrel	Set	10	179.00	1790.00
6	Disc Insulator 11 KV 70 KN	No	6	344.00	2064.00
7	RSJ 116x100, 9 m long	No	2	9254.00	18508.00
8	Sundries	LS	1	810.00	810.00
9	Concreting ration 1:3:6	LS	2	3027.00	6054.00
Cost of Material					45136.68

1	Transportation on material	4.00%	1805
2	T&P on material cost	1.00%	451
3	Contingencies on material	2.50%	1128
5	Erection cost on material	15.00%	6771
6	Contractor supervision charges on material	5.00%	2257
7	Insurance , Labour & Finance Cost	3.00%	1354
Service Cost			13767
Sub-Total			58903
8	Turnkey Charges	5.00%	2945

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
	Total	



Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	78547	61849
Total Cost of the Estimate	78547	61849

Item Code No. 6724					
22 kV A.B. Switch with RSJ pole 110 X 116, 9 mtr DP with allied fabrications.					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	22KV A.B.Switch, 400 A	Set	1	14447.00	14447.00
2	RSJ 116x100, 9 m long	No	2	9254.00	18508.00
3	M.S.Channel 75x40x6 mm	Kg	55	51.80	2849.00
4	M.S. Flats(50 X 10mm)	Kg	10	48.50	485.00
5	Disc Insulator 11 KV 45 KN	No	12	244.00	2928.00
6	Strain Hardware forWeasel/Squirrel	Set	6	179.00	1074.00
7	H.T.Stay Set	Set	4	598.00	2392.00
8	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	32.000	57.45	1838.40
9	Earthing Sets H.T	Set	2	342.00	684.00
10	G.I.Wire 8 SWG/ 6 SWG	Kg.	10.00	57.40	574.00
11	Sundries	LS	1	810.00	810.00
12	Concreting ration 1:3:6	LS	2	3027.00	6054.00
	Cost of Material				52643.40

1	Transportation on material	4.00%	2106
2	T&P on material cost	1.00%	526
3	Contingencies on material	2.50%	1316
5	Erection cost on material	15.00%	7897
6	Contractor supervision charges on material	5.00%	2632
7	Insurance , Labour & Finance Cost	3.00%	1579
	Service Cost		16056
	Sub-Total		68700
8	Turnkey Charges	5.00%	3435
	Total		72135

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	91610	72135
Total Cost of the Estimate	91610	72135

Item Code No. 6725					
Supply & replacement of of 11 kV V-cross arms & Top pin supports					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	11 KV V cross arm with clamp	No	1	639.00	639.00
2	11 KV Top fitting with clamp	No	1	91.00	91.00
5	Sundries	LS	1	810.00	810.00
	Cost of Material				1540.00

1	Transportation on material	4.00%	62
2	T&P on material cost	1.00%	15
3	Contingencies on material	2.50%	39
5	Erection cost on material	15.00%	231
6	Contractor supervision charges on material	5.00%	77
7	Insurance , Labour & Finance Cost	3.00%	46
	Service Cost		470
	Sub-Total		2010
8	Turnkey Charges	5.00%	100
	Total		2110

Particulars	DPR Amount	Tender/ Estimate Amount



	74.02%	37.025%
Cost with overheads on Material	2680	2110
Total Cost of the Estimate	2680	2110

Item Code No. 6726					
Supply & replacement of of 22 kV V-cross arms & Top pin supports					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	22 KV V cross arm with clamp	No	1	906.00	906.00
2	22 KV Top Fitting	No	1	382.00	382.00
5	Sundries	LS	1	810.00	810.00
Cost of Material					2098.00

1	Transportation on material	4.00%	84
2	T&P on material cost	1.00%	21
3	Contingencies on material	2.50%	52
5	Erection cost on material	15.00%	315
6	Contractor supervision charges on material	5.00%	105
7	Insurance , Labour & Finance Cost	3.00%	63
Service Cost			640
Sub-Total			2738
8	Turnkey Charges	5.00%	137

Total			2875
Particulars	DPR Amount	Tender/ Estimate Amount	
	74.02%	37.025%	
	Cost with overheads on Material	3651	2875
Total Cost of the Estimate		3651	2875

Item Code No. 6727					
Supply & replacement of of 33 kV V-cross arms & Top pin supports					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	33 KV V Cross Arms	No	1	906.00	906.00
2	33 KV Top Fitting	No	1	382.00	382.00
5	Sundries	LS	1	810.00	810.00
Cost of Material					2098.00

1	Transportation on material	4.00%	84
2	T&P on material cost	1.00%	21
3	Contingencies on material	2.50%	52
5	Erection cost on material	15.00%	315
6	Contractor supervision charges on material	5.00%	105
7	Insurance , Labour & Finance Cost	3.00%	63
Service Cost			640
Sub-Total			2738
8	Turnkey Charges	5.00%	137

Total			2875
Particulars	DPR Amount	Tender/ Estimate Amount	
	74.02%	37.025%	
	Cost with overheads on Material	3651	2875
Total Cost of the Estimate		3651	2875

Item Code No. 6730					
DP structure & reinstallment of existing 22/0.4 or 11/0.4 kV Distribution transformer on RSJ pole 100 X 116, 9 mtr with Kit Kat DB					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	No	2	9254.00	18508.00
2	MS Channel 100x50x6 mm	Kg	100	51.80	5180.00
3	M.S.Channel 75x40x6 mm	Kg	44	51.80	2279.20



4	MS angle 50x50x6 mm	Kg	22	51.80	1139.60
5	M.S.Flat 50 x 6 mm	Kg	24	48.50	1164.00
6	22 kV Pin Insulators with G.I. Pins	No	3	336.00	1008.00
7	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	11834.00	11834.00
8	L.A.s 22KV (Gapless type) with disconnecter	Set	1	2280.00	2280.00
9	H.T.Stay Set	Set	4	598.00	2392.00
10	Earthing Sets H.T	Set	5	342.00	1710.00
11	22KV H.G.Fuses	Set	1	4467.00	4467.00
12	22KV A.B.Switch, 400 A	Set	1	14447.00	14447.00
13	Danger Board in yard.	No	2	50.00	100.00
14	Painting/Hardware & support with numbering of pole	LS	1	225.00	225.00
15	Sundries	LS	1	810.00	810.00
16	Concreting ration 1:3:6	LS	2	3027.00	6054.00
Cost of Material					67543.80

1	Transportation on material	4.00%	2702
2	T&P on material cost	1.00%	675
3	Contingencies on material	2.50%	1689
5	Erection cost on material	15.00%	10132
6	Contractor supervision charges on material	5.00%	3377
7	Insurance , Labour & Finance Cost	3.00%	2026
Service Cost			20601
Sub-Total			88145
8	Turnkey Charges	5.00%	4407

Total **92552**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	117540	92552
Total Cost of the Estimate	117540	92552

Item Code No. 6731					
Rerouting of 22 KV Tower line with Narrow Based Towers					
Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
I)	Erection of 25 nos of towers in place of old rusted towers with pile foundation and caps and reconductoring with 232 sqmm AAAC conductor this includes the cost of tower material	No	25	526440.00	13161000.00
II)					
1	Disc Insulator 11 KV 70 KN	No	1600	344.00	550400.00
2	AAAC 232 mm2	Km	14	127.40	1783.60
3	Strain Hardware for AAAC232 sq.mm.	No	315	603.00	189945.00
4	0.2 ACSR or equivalent AAAC Loop Connector	No	615	820.00	504300.00
5	Suspension Hardware for 0.2 ACSR or equivalent AAAC	No	45	339.00	15255.00
6	Sundries Nutbolts, Binding Tapes wire etc.	L.S.	1	18900.00	18900.00
Cost of material					14441583.60

1	Transportation on material	4.00%	577663
2	T&P on material cost	1.00%	144416
3	Contingencies on material	2.50%	361040
5	Erection cost on material	15.00%	2166238
6	Contractor supervision charges on material	5.00%	722079
7	Insurance , Labour & Finance Cost	3.00%	433248
Service Cost			4404683
Sub-Total			18846267
8	Turnkey Charges	5.00%	942313

Total **19788580**

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	25131244	19788580



Total Cost of the Estimate	25131244	19788580
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Item Code No. 6732
Replacement of Electromagnetic Relay by Static/Numerical Relays

Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	30 Volt Non directional type Electronic Static relay (Numeric Relay)	No	1	N/A	#VALUE!

Cost of material #VALUE!

1	Transportation on material	4.00%			#VALUE!
2	T&P on material cost	1.00%			#VALUE!
3	Contingencies on material	2.50%			#VALUE!
5	Erection cost on material	15.00%			#VALUE!
6	Contractor supervision charges on material	5.00%			#VALUE!
7	Insurance , Labour & Finance Cost	3.00%			#VALUE!

Service Cost #VALUE!

Sub-Total #VALUE!

8	Turnkey Charges	5.00%			#VALUE!
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Total #VALUE!

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	#VALUE!	#VALUE!
Total Cost of the Estimate	#VALUE!	#VALUE!

Item Code No. 7001

GIS 33/11 KV 1 x 5 MVA (for cities Amravati, Nagpur, Pune, Bhandup, Kalyan & Nashik)

Cost data for 33/11 KV, 1 X 5 MVA GIS S/s

Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33/22 kV Switchgear part				
1	Power Transformer 33/11 KV, 5 MVA	No	1	3003469.00	3003469.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1265000.00	2530000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1265000.00	1265000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1592963.00	1592963.00
5	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	1737.00	347400.00
6	33 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
7	33 KV Isolators with EB (800 A)	Set	2	55190.00	110380.00
8	33 KV Lightning Arrestors (Station type)	Set	4	13571.00	54284.00
9	33 KV Post Insulator	Nos	6	918.00	5508.00
10	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	194970.00	194970.00
B	11 kV Switchgear part				
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	1	843333.00	843333.00
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	3	796481.00	2389443.00
	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	0	1204093.00	0.00
13	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1194.00	2388000.00
14	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1662.00	79776.00
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
16	Earthing complete as per Sheet no.2	Set	2	246832.00	493664.00
17	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	274659.20	549318.40
18	11 kV Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
19	Clamps and Connectors as per Sheet no.5	No.	1	251340.00	251340.00
20	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
21	S/S Yard lighting as per Sheet no.7	No.	1	215879.00	215879.00
22	Control cables for S/S as per Sheet no.9	No.	1	171605.90	171605.90
23	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	199541.40	199541.40



Cost of material				17306290.70
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1	Transportation on material	4.00%	692252
2	T&P on material cost	1.00%	173063
3	Contingencies on material	2.50%	432657
5	Erection cost on material	5.00%	865315
6	Contractor supervision charges on material	5.00%	865315
7	Insurance , Labour & Finance Cost	3.00%	519189
	Service Cost		3547790
	Sub-Total		20854080
8	Turnkey Charges	5.00%	1042704
	Total		21896784

9	Civil Works As per Sheet 'C'	No.	1	5202820
	Total Cost of Estimate			27099604

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	27873512	21896784
Civil Works As per Sheet 'C'	6631561	5202820
Total Cost of the Estimate	34505072	27099604

Sheet No
- 1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
	Total:				194970.00

Sheet
No.2

Cost data for Earthing Work at 2x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	810.00	810.00
	Total:				246832.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	9254.00	74032.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 100 mm ²	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				



a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	274659.20

Sheet
No. 5

Cost data for Clamps & Connectors at 2x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	251340.00

Sheet
No.7

Cost data for Yard Lighting of 2X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cum	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	199541.40

Sheet
No.9

Cost data for Control cable 2X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00



5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	0.00
2	Control room (As per table B) GIS	0.00
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	0.00
6	WBM Road (As per table D) GIS	0.00
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	0.00
8	Metal Spreading (As per table F) GIS	0.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	0.00
13	Borewell including pumpset and allied accessories. (As per table I) GIS	0.00
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	0.00
15	Construction of retaining wall. (As per table K) GIS	0.00
16	Rain Water Harvesting (As per Table L) Indoor	0.00
17	Culvert (As per Table M) Indoor	0.00
Total=		0.00

Item Code No. 7002

GIS 33/11 KV 1 x 5 MVA (for other Cities)

Cost data for 33/11 KV, 1 X 5 MVA GIS S/s

Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 33/11 KV, 5 MVA	No	1	3003469.00	3003469.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1265000.00	2530000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1265000.00	1265000.00
4	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	1737.00	347400.00
5	33 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
6	33 KV Isolators with EB (800 A)	Set	2	55190.00	110380.00
7	33 KV Lightning Arrestors (Station type)	Set	4	13571.00	54284.00
8	33 KV Post Insulator	Nos	6	918.00	5508.00
9	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	194970.00	194970.00
B 11 kV Switchgear part					
10	11kV I D switchgear (1 I/c+1 B/c+4O/G)	No	1	1703020.00	1703020.00
11	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	300	1194.00	358200.00
12	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	4	1662.00	6648.00
	Clamps and Connectors as per Sheet no.4	Mtr.	1	273276.00	273276.00
14	S/S Yard lighting as per Sheet no.5	No.	1	211641.00	211641.00
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
16	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	196242.40	196242.40
17	Control cables for S/S as per Sheet no.7	No.	1	85383.45	85383.45
18	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
Cost of material					10984386.85

1	Transportation on material	4.00%	439375
2	T&P on material cost	1.00%	109844
3	Contingencies on material	2.50%	274610
5	Erection cost on material	5.00%	549219
6	Contractor supervision charges on material	5.00%	549219



7	Insurance , Labour & Finance Cost	3.00%	329532
	Service Cost		2251799
	Sub-Total		13236186
8	Turnkey Charges	5.00%	661809
	Total		13897995
9	Civil Works As per Sheet 'C'	No. 1	5202820
	Total Cost of Estimate		19100816

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	17691453	13897995
Civil Works As per Sheet 'C'	6631561	5202820
Total Cost of the Estimate	24323014	19100816

Sheet No
- 1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
				Total:	194970.00

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I..Flat 50 x 6 mm	Kg.	1500	66.78	100170.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2900.00	2900.00
				Total:	276342.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No.4

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	273276.00

Sheet
No.5

Cost data for Yard Lighting of 1X 5 MVA, 33/11 KV sub station. (Outdoor)



Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	7	3027.00	21189.00
6	Red Bricks	No.	1000	5.50	5500.00
7	Sand	Cum	6	222.00	1332.00
8	Sundries	L.S.	1	810.00	810.00
				Total:	211641.00

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	70.08	20323.20
2	G.I.Channel 75x40x6mm	Kg.	15	70.08	1051.20
3	G.I Flat 75x10 mm	Kg.	20	66.78	1335.60
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
8	11 kv Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
11	Earthing Sets H.T	Nos.	3	342.00	1026.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	Coal	Kg.	200	15.00	3000.00
14	Salt	Kg.	200	7.00	1400.00
15	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	196242.40

Sheet
No.7

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

C Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	0.00
2	Control room (As per table B) GIS	0.00
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	0.00
6	WBM Road (As per table D) GIS	0.00
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	0.00
8	Metal Spreading (As per table F) GIS	0.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	0.00
13	Borewell including pumpset and allied accessories. (As per table I) GIS	0.00



14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	0.00
15	Construction of retaining wall. (As per table K) GIS	0.00
16	Rain Water Harvesting (As per Table L) Indoor	0.00
17	Culvert (As per Table M) Indoor	0.00
	Total=	0.00

Item Code No. 7003					
GIS 33/11 KV 2 x 5 MVA (for cities Amravati, Nagpur, Pune, Bhandup, Kalyan & Nashik)					
Cost data for 33/11 KV, 2 X 5 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33/22 kV Switchgear part				
1	Power Transformer 33/11 KV, 5 MVA	No	2	3003469.00	6006938.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1265000.00	2530000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1265000.00	2530000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1592963.00	1592963.00
5	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	1737.00	347400.00
6	33 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
7	33 KV Isolators with EB (800 A)	Set	2	55190.00	110380.00
8	33 KV Lightning Arrestors (Station type)	Set	4	13571.00	54284.00
9	33 KV Post Insulator	Nos	6	918.00	5508.00
10	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	194970.00	194970.00
B	11 kV Switchgear part				
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	2	843333.00	1686666.00
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	6	796481.00	4778886.00
13	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	1	1204093.00	1204093.00
14	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1194.00	2388000.00
15	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1662.00	79776.00
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
17	Earthing complete as per Sheet no.2	Set	2	246832.00	493664.00
18	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	274659.20	549318.40
19	11 kV Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
20	Clamps and Connectors as per Sheet no.5	No.	1	251340.00	251340.00
21	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
22	S/S Yard lighting as per Sheet no.7	No.	1	215879.00	215879.00
23	Control cables for S/S as per Sheet no.9	No.	1	171605.90	171605.90
24	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	199541.40	199541.40
	Cost of material				26011628.70

1	Transportation on material	4.00%	1040465
2	T&P on material cost	1.00%	260116
3	Contingencies on material	2.50%	650291
5	Erection cost on material	5.00%	1300581
6	Contractor supervision charges on material	5.00%	1300581
7	Insurance , Labour & Finance Cost	3.00%	780349
	Service Cost		5332384
	Sub-Total		31344013
8	Turnkey Charges	5.00%	1567201
	Total		32911213
9	Civil Works As per Sheet 'C'	No. 1	5289109
	Total Cost of Estimate		38200322

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	41894329	32911213
Civil Works As per Sheet 'C'	6741546	5289109



Total Cost of the Estimate	48635875	38200322
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Sheet No
- 1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
Total:					194970.00

Sheet
No.2

Cost data for Earthing Work at 2x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	810.00	810.00
Total:					246832.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	9254.00	74032.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kv Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 100 mm ²	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors			0.00	
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
Total:					274659.20

Sheet
No. 5

Cost data for Clamps & Connectors at 2x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
Total:					251340.00

Sheet
No.7



Cost data for Yard Lighting of 2X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cum	6.5	222.00	1443.00
8	Sundries	L.S.	1	810.00	810.00
				Total:	215879.00

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	199541.40

Sheet
No.9

Cost data for Control cable 2X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	0.00
2	Control room (As per table B) GIS	0.00
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	0.00
6	WBM Road (As per table D) GIS	0.00
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	0.00
8	Metal Spreading (As per table F) GIS	0.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	0.00



13	Borewell including pumpset and allied accessories. (As per table I) GIS	0.00	
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	0.00	
15	Construction of retaining wall. (As per table K) GIS	0.00	
16	Rain Water Harvesting (As per Table L) Indoor	0.00	
17	Culvert (As per Table M) Indoor	0.00	
Total=		0.00	

Item Code No. 7004					
GIS 33/11 KV 2 x 5 MVA (Other Cities)					
Cost data for 33/11 KV, 2 X 5 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 33/11 KV, 5 MVA	No	2	3003469.00	6006938.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1265000.00	2530000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1265000.00	2530000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1592963.00	1592963.00
5	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	1737.00	347400.00
6	33 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
7	33 KV Isolators with EB (800 A)	Set	2	55190.00	110380.00
8	33 KV Lightning Arrestors (Station type)	Set	4	13571.00	54284.00
9	33 KV Post Insulator	Nos	6	918.00	5508.00
10	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	194970.00	194970.00
B 11 kV Switchgear part					
11	11kV I D switchgear (1 I/c+1 B/c+4O/G)	No	1	1703020.00	1703020.00
12	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	600	1194.00	716400.00
13	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	8	1662.00	13296.00
14	Clamps and Connectors as per Sheet no.4	Mtr.	1	273276.00	273276.00
15	S/S Yard lighting as per Sheet no.5	No.	1	211641.00	211641.00
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
17	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	196242.40	196242.40
18	Control cables for S/S as per Sheet no.7	No.	1	85383.45	85383.45
19	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
Cost of material					17210666.85

1	Transportation on material	4.00%	688427
2	T&P on material cost	1.00%	172107
3	Contingencies on material	2.50%	430267
5	Erection cost on material	5.00%	860533
6	Contractor supervision charges on material	5.00%	860533
7	Insurance , Labour & Finance Cost	3.00%	516320
Service Cost			3528187
Sub-Total			20738854
8	Turnkey Charges	5.00%	1036943

Total **21775796**

9	Civil Works As per Sheet 'C'	No.	1	5289109
Total Cost of Estimate				27064905

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	27719500	21775796
Civil Works As per Sheet 'C'	6741546	5289109
Total Cost of the Estimate	34461046	27064905



Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
Total:					194970.00

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I.Flat 50 x 6 mm	Kg.	1500	66.78	100170.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2900.00	2900.00
Total:					276342.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No.4

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
Total:					273276.00

Sheet
No.5

Cost data for Yard Lighting of 1X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	7	3027.00	21189.00
6	Red Bricks	No.	1000	5.50	5500.00
7	Sand	Cum	6	222.00	1332.00
8	Sundries	L.S.	1	810.00	810.00
Total:					211641.00

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	70.08	20323.20
2	G.I.Channel 75x40x6mm	Kg.	15	70.08	1051.20
3	G.I Flat 75x10 mm	Kg.	20	66.78	1335.60
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00



5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
8	11 KV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
11	Earthing Sets H.T	Nos.	3	342.00	1026.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	Coal	Kg.	200	15.00	3000.00
14	Salt	Kg.	200	7.00	1400.00
15	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	196242.40

Sheet
No.7

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	0.00
2	Control room (As per table B) GIS	0.00
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	0.00
6	WBM Road (As per table D) GIS	0.00
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	0.00
8	Metal Spreading (As per table F) GIS	0.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	0.00
13	Borewell including pumpset and allied accessories. (As per table I) GIS	0.00
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	0.00
15	Construction of retaining wall. (As per table K) GIS	0.00
16	Rain Water Harvesting (As per Table L) Indoor	0.00
17	Culvert (As per Table M) Indoor	0.00
	Total=	0.00

Item Code No. 7005

GIS 33/11 KV 1 x 10 MVA (for cities Amravati, Nagpur, Pune, Bhandup, Kalyan & Nashik)

Cost data for 33/11 KV, 1X 10 MVA GIS S/s

Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33/22 kV Switchgear part				
1	Power Transformer 33/11 KV, 10 MVA	No	1	4687202.00	4687202.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1265000.00	2530000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1265000.00	1265000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1592963.00	1592963.00
5	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	1737.00	347400.00



6	33 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
7	33 KV Isolators with EB (800 A)	Set	2	55190.00	110380.00
8	33 KV Lightning Arrestors (Station type)	Set	4	13571.00	54284.00
9	33 KV Post Insulator	Nos	6	918.00	5508.00
10	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	194970.00	194970.00
B 11 kV Switchgear part					
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	1	843333.00	843333.00
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	4	796481.00	3185924.00
	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	0	1204093.00	0.00
13	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1194.00	2388000.00
14	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1662.00	79776.00
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
16	Earthing complete as per Sheet no.2	Set	2	246832.00	493664.00
17	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	346332.20	692664.40
18	11 kV Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
19	Clamps and Connectors as per Sheet no.5	No.	1	251340.00	251340.00
20	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
21	S/S Yard lighting as per Sheet no.7	No.	1	218279.00	218279.00
22	Control cables for S/S as per Sheet no.9	No.	1	171605.90	171605.90
23	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	199541.40	199541.40
Cost of material					19932250.70

1	Transportation on material	4.00%	797290
2	T&P on material cost	1.00%	199323
3	Contingencies on material	2.50%	498306
5	Erection cost on material	5.00%	996613
6	Contractor supervision charges on material	5.00%	996613
7	Insurance , Labour & Finance Cost	3.00%	597968
Service Cost			4086111
Sub-Total			24018362
8	Turnkey Charges	5.00%	1200918
Total			25219280

9	Civil Works As per Sheet 'C'	No.	1	5202820
Total Cost of Estimate				30422100

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	32102883	25219280
Civil Works As per Sheet 'C'	6631561	5202820
Total Cost of the Estimate	38734444	30422100

Sheet No
- 1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
				Total:	194970.00

Sheet
No.2

Cost data for Earthing Work at 2x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00



4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	246832.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	9254.00	74032.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for 0.2 ACSR	Nos.	36	609.00	21924.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 232 mm ²	Rmt. mm ²	150	127.40	19110.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors			0.00	
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.00	12924.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	346332.20

Sheet
No. 5

Cost data for Clamps & Connectors at 2x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	251340.00

Sheet
No.7

Cost data for Yard Lighting of 2X 10 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	Armoured Copper control cable 4C X 2.5 Sq mm	Mtr.	250	87.60	21900.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cmt	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	218279.00

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00



2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	199541.40

Sheet
No.9

Cost data for Control cable 2X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	0.00
2	Control room (As per table B) GIS	0.00
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	0.00
6	WBM Road (As per table D) GIS	0.00
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	0.00
8	Metal Spreading (As per table F) GIS	0.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	0.00
13	Borewell including pumpset and allied accessories. (As per table I) GIS	0.00
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	0.00
15	Construction of retaining wall. (As per table K) GIS	0.00
16	Rain Water Harvesting (As per Table L) Indoor	0.00
17	Culvert (As per Table M) Indoor	0.00
	Total=	0.00

Item Code No. 7006

GIS 33/11 KV 1 x 10 MVA (Other cities)

Cost data for 33/11 KV, 1X 10 MVA GIS S/s

Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33/22 kV Switchgear part				
1	Power Transformer 33/11 KV, 10 MVA	No	1	4687202.00	4687202.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	1	1265000.00	1265000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1265000.00	1265000.00
4	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	1737.00	347400.00



5	33 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
6	33 KV Isolators with EB (800 A)	Set	2	55190.00	110380.00
7	33 KV Lightning Arrestors (Station type)	Set	4	13571.00	54284.00
8	33 KV Post Insulator	Nos	6	918.00	5508.00
9	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	194970.00	194970.00
B 11 kV Switchgear part					
10	11kV I D switchgear (1 I/c+1 B/c+4O/G)	No	1	1703020.00	1703020.00
11	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	300	1194.00	358200.00
12	11 kV heat shrinkable indoor termination joint kit for 3 C X 300 sqmm	No	4	1662.00	6648.00
13	Clamps and Connectors as per Sheet no.4	Mtr.	1	390606.00	390606.00
14	S/S Yard lighting as per Sheet no.5	No.	1	211641.00	211641.00
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
16	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	196242.40	196242.40
17	Control cables for S/S as per Sheet no.7	No.	1	85383.45	85383.45
18	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
Cost of material					11520449.85

1	Transportation on material	4.00%	460818
2	T&P on material cost	1.00%	115204
3	Contingencies on material	2.50%	288011
5	Erection cost on material	5.00%	576022
6	Contractor supervision charges on material	5.00%	576022
7	Insurance , Labour & Finance Cost	3.00%	345613
Service Cost			2361692
Sub-Total			13882142
8	Turnkey Charges	5.00%	694107
Total			14576249

9	Civil Works As per Sheet 'C'	No.	1	5202820
Total Cost of Estimate				19779069

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	18554837	14576249
Civil Works As per Sheet 'C'	6631561	5202820
Total Cost of the Estimate	25186397	19779069

Sheet No
- 1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
Total:					194970.00

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I..Flat 50 x 6 mm	Kg.	1500	66.78	100170.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2900.00	2900.00
Total:					276342.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA 33/11 KV S/S/Sm



Cost data of Structure for 33 KV S/S at 1x5 MVA, 33/11 KV S/S.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No.4

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
7	Wedge Connectors			0.00	
a)	DOG TO DOG or equivalent AAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
				Total:	390606.00

Sheet
No.5

Cost data for Yard Lighting of 1X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	7	3027.00	21189.00
6	Red Bricks	No.	1000	5.50	5500.00
7	Sand	Cum	6	222.00	1332.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	211641.00

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	70.08	20323.20
2	G.I.Channel 75x40x6mm	Kg.	15	70.08	1051.20
3	G.I Flat 75x10 mm	Kg.	20	66.78	1335.60
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
8	11 kv Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
11	Earthing Sets H.T	Nos.	3	342.00	1026.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	Coal	Kg.	200	15.00	3000.00
14	Salt	Kg.	200	7.00	1400.00
15	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	196242.40

Sheet
No.7

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75



2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	0.00
2	Control room (As per table B) GIS	0.00
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	0.00
6	WBM Road (As per table D) GIS	0.00
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	0.00
8	Metal Spreading (As per table F) GIS	0.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	0.00
13	Borewell including pumpset and allied accessories. (As per table I) GIS	0.00
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	0.00
15	Construction of retaining wall. (As per table K) GIS	0.00
16	Rain Water Harvesting (As per Table L) Indoor	0.00
17	Culvert (As per Table M) Indoor	0.00
Total=		0.00

Item Code No. 7007					
GIS 33/11 KV 2 x 10 MVA(for cities Amravati, Nagpur, Pune, Bhandup, Kalyan & Nashik)					
Cost data for 33/11 KV, 2X 10 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 33/11 KV, 10 MVA	No	2	4687202.00	9374404.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1265000.00	2530000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1265000.00	2530000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1592963.00	1592963.00
5	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	1737.00	347400.00
6	33 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
7	33 KV Isolators with EB (800 A)	Set	2	55190.00	110380.00
8	33 KV Lightning Arrestors (Station type)	Set	4	13571.00	54284.00
9	33 KV Post Insulator	Nos	6	918.00	5508.00
10	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	194970.00	194970.00
B 11 kV Switchgear part					
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	2	843333.00	1686666.00
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	8	796481.00	6371848.00
13	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	1	1204093.00	1204093.00
14	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1194.00	2388000.00
15	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1662.00	79776.00
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
17	Earthing complete as per Sheet no.2	Set	2	246832.00	493664.00
18	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	346332.20	692664.40
19	11 kV Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
20	Clamps and Connectors as per Sheet no.5	No.	1	251340.00	251340.00
21	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00



22	S/S Yard lighting as per Sheet no.7	No.	1	215879.00	215879.00
23	Control cables for S/S as per Sheet no.9	No.	1	171605.90	171605.90
24	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	199541.40	199541.40
Cost of material					31115402.70

1	Transportation on material	4.00%	1244616
2	T&P on material cost	1.00%	311154
3	Contingencies on material	2.50%	777885
5	Erection cost on material	5.00%	1555770
6	Contractor supervision charges on material	5.00%	1555770
7	Insurance , Labour & Finance Cost	3.00%	933462
Service Cost			6378658
Sub-Total			37494060
8	Turnkey Charges	5.00%	1874703
Total			39368763

9	Civil Works As per Sheet 'C'	No.	1	5314200
Total Cost of Estimate				44682963

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	50114468	39368763
Civil Works As per Sheet 'C'	6773527	5314200
Total Cost of the Estimate	56887994	44682963

Sheet No
- 1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
				Total:	194970.00

Sheet
No.2

Cost data for Earthing Work at 2x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	246832.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	9254.00	74032.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for0.2 ACSR	Nos.	36	609.00	21924.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00



11	AAAC 232 mm ²	Rmt.	150	127.40	19110.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.00	12924.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	346332.20

Sheet
No. 5

Cost data for Clamps & Connectors at 2x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	251340.00

Sheet
No.7

Cost data for Yard Lighting of 2X 10 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cmt	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	199541.40

Sheet
No.9

Cost data for Control cable 2X5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	0.00
2	Control room (As per table B) GIS	0.00
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	0.00
6	WBM Road (As per table D) GIS	0.00
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	0.00
8	Metal Spreading (As per table F) GIS	0.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	0.00
13	Borewell including pumpset and allied accessories. (As per table I) GIS	0.00
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	0.00
15	Construction of retaining wall. (As per table K) GIS	0.00
16	Rain Water Harvesting (As per Table L) Indoor	0.00
17	Culvert (As per Table M) Indoor	0.00
	Total=	0.00

Item Code No. 7008

GIS 33/11 KV 2 x 10 MVA (Other Cities)

Cost data for 33/11 KV, 2X 10 MVA GIS S/s

Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33/22 kV Switchgear part				
1	Power Transformer 33/11 KV, 10 MVA	No	2	4687202.00	9374404.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1265000.00	2530000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1265000.00	2530000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	Mtr.	1	1592963.00	1592963.00
5	XLPE Cable 33 KV, 3 C / 300 mm sq.	No.	200	1737.00	347400.00
6	33 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	Set	8	67830.00	542640.00
7	33 KV Isolators with EB (800 A)	Set	2	55190.00	110380.00
8	33 KV Lightning Arrestors (Station type)	Nos	4	13571.00	54284.00
9	33 KV Post Insulator	Nos	6	918.00	5508.00
10	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	194970.00	194970.00
B	11 kV Switchgear part				
11	11kV I D switchgear (2 I/c+1 B/c+8O/G)	No	1	3117222.00	3117222.00
12	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	600	1194.00	716400.00
13	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	8	1662.00	13296.00
14	Clamps and Connectors as per Sheet no.4	Mtr.	1	452460.00	452460.00
15	S/S Yard lighting as per Sheet no.5	No.	1	215879.00	215879.00
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
17	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	196242.40	196242.40
18	Control cables for S/S as per Sheet no.7	No.	1	171605.90	171605.90



19	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
Cost of material					22261979.30

1	Transportation on material	4.00%	890479
2	T&P on material cost	1.00%	222620
3	Contingencies on material	2.50%	556549
5	Erection cost on material	5.00%	1113099
6	Contractor supervision charges on material	5.00%	1113099
7	Insurance , Labour & Finance Cost	3.00%	667859
Service Cost			4563706
Sub-Total			26825685
8	Turnkey Charges	5.00%	1341284
Total			28166969

9	Civil Works As per Sheet 'C'	No.	1	5314200
Total Cost of Estimate				33481170

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	35855144	28166969
Civil Works As per Sheet 'C'	6773527	5314200
Total Cost of the Estimate	42628671	33481170

Sheet No
- 1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
Total:					194970.00

Sheet
No.2

Cost data for Earthing Work at 2x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	810.00	810.00
Total:					246832.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 2x10 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No.4

Cost data for Clamps & Connectors at 2x10 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00



3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
7	Wedge Connectors			0.00	
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
				Total:	452460.00

Sheet
No.5

Cost data for Yard Lighting of 2X 10 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cum	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 10 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	70.08	20323.20
2	G.I.Channel 75x40x6mm	Kg.	15	70.08	1051.20
3	G.I Flat 75x10 mm	Kg.	20	66.78	1335.60
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
11	Earthing Sets H.T	Nos.	3	342.00	1026.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	Coal	Kg.	200	15.00	3000.00
14	Salt	Kg.	200	7.00	1400.00
15	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	196242.40

Sheet
No.7

Cost data for Control cable 2 X 10 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	0.00
2	Control room (As per table B) GIS	0.00
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00



4	Sanitary Water supply	0.00	
5	Electrification (Lumsum)	0.00	
6	WBM Road (As per table D) GIS	0.00	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	0.00	
8	Metal Spreading (As per table F) GIS	0.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00	
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00	
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00	
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	0.00	
13	Borewell including pumpset and allied accessories. (As per table I) GIS	0.00	
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	0.00	
15	Construction of retaining wall. (As per table K) GIS	0.00	
16	Rain Water Harvesting (As per Table L) Indoor	0.00	
17	Culvert (As per Table M) Indoor	0.00	
	Total=	0.00	

Item Code No. 7009					
GIS 22/11 KV 1 x 5 MVA(for cities Amravati, Nagpur, Pune, Bhandup, Kalyan & Nashik)					
Cost data for 22/11 KV, 1 X 5 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33/22 kV Switchgear part				
1	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	1	3305209.00	3305209.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1265000.00	2530000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1265000.00	1265000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1592963.00	1592963.00
5	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1464.00	292800.00
6	22 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	16325.00	130600.00
7	22 KV Isolators with EB (800 A)	Set	2	41547.00	83094.00
8	22 KV Lightning Arrestors (Station type)	Set	4	11884.00	47536.00
9	22 KV Post Insulator	Nos	6	835.00	5010.00
10	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	194970.00	194970.00
B	11 kV Switchgear part				
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	1	843333.00	843333.00
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	3	796481.00	2389443.00
	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	0	1204093.00	0.00
13	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1194.00	2388000.00
14	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1662.00	79776.00
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
16	Earthing complete as per Sheet no.2	Set	2	246832.00	493664.00
17	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	274659.20	549318.40
18	11 kV Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
19	Clamps and Connectors as per Sheet no.5	No.	1	183453.00	183453.00
20	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
21	S/S Yard lighting as per Sheet no.7	No.	1	215879.00	215879.00
22	Control cables for S/S as per Sheet no.9	No.	1	171605.90	171605.90
23	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	195591.40	195591.40
	Cost of material				17035021.70

1	Transportation on material	4.00%	681401
2	T&P on material cost	1.00%	170350
3	Contingencies on material	2.50%	425876
5	Erection cost on material	5.00%	851751
6	Contractor supervision charges on material	5.00%	851751
7	Insurance , Labour & Finance Cost	3.00%	511051



Service Cost		3492179
Sub-Total		20527201
8 Turnkey Charges	5.00%	1026360
Total		21553561

9 Civil Works As per Sheet 'C'	No. 1	5202820
Total Cost of Estimate		26756381

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	27436606	21553561
Civil Works As per Sheet 'C'	6631561	5202820
Total Cost of the Estimate	34068167	26756381

Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/steel section for 2x5 MVA Sub stn. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
Total:					194970.00

Sheet
No.2

Cost data for Earthing Work at 2x5 MVA at 22/11 KV sub stn. (outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	810.00	810.00
Total:					246832.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 2x5 MVA 22/11 KV Sub Stn.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	51.80	16317.00
2	Structure for 22 KV CT	Kg.	360	51.80	18648.00
3	Structure for 22 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 2x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	9254.00	74032.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kv Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00



11	AAAC 100 mm ²	Rmt.	150	51.82	7773.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors			0.00	
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	274659.20

Sheet
No. 5

Cost data for Clamps & Connectors at 2x5 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.00	18360.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 22 KV C.T.	Nos.	6	1425.00	8550.00
5	Clamps for 22 KV P.T.	Nos.	3	1425.00	4275.00
6	Clamp for 22 KV VCB	Nos.	6	2040.00	12240.00
				Total:	183453.00

Sheet
No.7

Cost data for Yard Lighting of 2x5 MVA , 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cmt	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
					215879.00

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x5 MVA 22/11 KV sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	204.00	2040.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	150.00	7500.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00



				Total:	195591.40
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Sheet
No.9

Cost data for Control cable 2X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	0.00
2	Control room (As per table B) GIS	0.00
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	0.00
6	WBM Road (As per table D) GIS	0.00
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	0.00
8	Metal Spreading (As per table F) GIS	0.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	0.00
13	Borewell including pumpset and allied accessories. (As per table I) GIS	0.00
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	0.00
15	Construction of retaining wall. (As per table K) GIS	0.00
16	Rain Water Harvesting (As per Table L) Indoor	0.00
17	Culvert (As per Table M) Indoor	0.00
		0.00

Item Code No. 7010

GIS 22/11 KV 1 x 5 MVA (other cities)

Cost data for 22/11 KV, 1 X 5 MVA GIS S/s

Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33/22 kV Switchgear part				
1	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	1	3305209.00	3305209.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	1	1265000.00	1265000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1265000.00	1265000.00
4	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1464.00	292800.00
5	22 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	16325.00	130600.00
6	22 KV Isolators with EB (800 A)	Set	2	41547.00	83094.00
7	22 KV Lightning Arrestors (Station type)	Set	4	11884.00	47536.00
8	22 KV Post Insulator	Nos	6	835.00	5010.00
9	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	194970.00	194970.00
B	11 kV Switchgear part				
10	11kV I D switchgear (1 I/c+1 B/c+4O/G)	No	1	1703020.00	1703020.00
11	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	300	1194.00	358200.00
12	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	4	1662.00	6648.00
13	Clamps and Connectors as per Sheet no.4	Mtr.	1	273276.00	273276.00
14	S/S Yard lighting as per Sheet no.5	No.	1	211641.00	211641.00
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00



16	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	196242.40	196242.40
17	Control cables for S/S as per Sheet no.7	No.	1	85383.45	85383.45
18	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
Cost of material					9519954.85

1	Transportation on material	4.00%	380798
2	T&P on material cost	1.00%	95200
3	Contingencies on material	2.50%	237999
5	Erection cost on material	5.00%	475998
6	Contractor supervision charges on material	5.00%	475998
7	Insurance , Labour & Finance Cost	3.00%	285599
Service Cost			1951591
Sub-Total			11471546
8	Turnkey Charges	5.00%	573577
Total			12045123

9	Civil Works As per Sheet 'C'	No.	1	5202820
Total Cost of Estimate				17247943

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	15332839	12045123
Civil Works As per Sheet 'C'	6631561	5202820
Total Cost of the Estimate	21964400	17247943

Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/steel section for 2x5 MVA Sub stn. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
Total:					194970.00

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I.Flat 50 x 6 mm	Kg.	1500	66.78	100170.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2900.00	2900.00
Total:					276342.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No.4

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S



Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	273276.00

Sheet
No.5

Cost data for Yard Lighting of 1X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	7	3027.00	21189.00
6	Red Bricks	No.	1000	5.50	5500.00
7	Sand	Cum	6	222.00	1332.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	211641.00

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	70.08	20323.20
2	G.I.Channel 75x40x6mm	Kg.	15	70.08	1051.20
3	G.I Flat 75x10 mm	Kg.	20	66.78	1335.60
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
8	11 kv Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
11	Earthing Sets H.T	Nos.	3	342.00	1026.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	Coal	Kg.	200	15.00	3000.00
14	Salt	Kg.	200	7.00	1400.00
15	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	196242.40

Sheet
No.7

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	0.00
2	Control room (As per table B) GIS	0.00
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	0.00



6	WBM Road (As per table D) GIS	0.00	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	0.00	
8	Metal Spreading (As per table F) GIS	0.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00	
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00	
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00	
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	0.00	
13	Borewell including pumpset and allied accessories. (As per table I) GIS	0.00	
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	0.00	
15	Construction of retaining wall. (As per table K) GIS	0.00	
16	Rain Water Harvesting (As per Table L) Indoor	0.00	
17	Culvert (As per Table M) Indoor	0.00	
Total=		0.00	

Item Code No. 7011					
GIS 22/11 KV 2 x 5 MVA (for cities Amravati, Nagpur, Pune, Bhandup, Kalyan & Nashik)					
Cost data for 22/11 KV, 2 X 5 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33/22 kV Switchgear part				
1	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	2	3305209.00	6610418.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1265000.00	2530000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1265000.00	2530000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1592963.00	1592963.00
5	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1464.00	292800.00
6	22 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	16325.00	130600.00
7	22 KV Isolators with EB (800 A)	Set	2	41547.00	83094.00
8	22 KV Lightning Arrestors (Station type)	Set	4	11884.00	47536.00
9	22 KV Post Insulator	Nos	6	835.00	5010.00
10	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	194970.00	194970.00
B	11 kV Switchgear part				
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	2	843333.00	1686666.00
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	6	796481.00	4778886.00
13	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	1	1204093.00	1204093.00
14	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1194.00	2388000.00
15	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1662.00	79776.00
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
17	Earthing complete as per Sheet no.2	Set	2	246832.00	493664.00
18	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	274659.20	549318.40
19	11 kV Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
20	Clamps and Connectors as per Sheet no.5	No.	1	183453.00	183453.00
21	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
22	S/S Yard lighting as per Sheet no.7	No.	1	215879.00	215879.00
23	Control cables for S/S as per Sheet no.9	No.	1	171605.90	171605.90
24	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	195591.40	195591.40
Cost of material					26042099.70

1	Transportation on material	4.00%	1041684
2	T&P on material cost	1.00%	260421
3	Contingencies on material	2.50%	651052
5	Erection cost on material	5.00%	1302105
6	Contractor supervision charges on material	5.00%	1302105
7	Insurance , Labour & Finance Cost	3.00%	781263
Service Cost			5338630
Sub-Total			31380730



8	Turnkey Charges	5.00%	1569037
Total			32949767

9	Civil Works As per Sheet 'C'	No. 1	5289109
Total Cost of Estimate			38238876

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	41943406	32949767
Civil Works As per Sheet 'C'	6741546	5289109
Total Cost of the Estimate	48684951	38238876

Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/steel section for 2x5 MVA Sub stn. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
Total:					194970.00

Sheet
No.2

Cost data for Earthing Work at 2x5 MVA at 22/11 KV sub stn. (outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	810.00	810.00
Total:					246832.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 2x5 MVA 22/11 KV Sub Stn.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	51.80	16317.00
2	Structure for 22 KV CT	Kg.	360	51.80	18648.00
3	Structure for 22 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 2x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	9254.00	74032.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	344.00	12384.00
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 100 mm ²	Rmt.	150	51.82	7773.00



12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors			#N/A	
a)	DOG TO DOG or equivalent AAAC	Nos.	18	559.00	10062.00
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.00	13194.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	274659.20

Sheet
No. 5

Cost data for Clamps & Connectors at 2x5 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.00	18360.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 22 KV C.T.	Nos.	6	1425.00	8550.00
5	Clamps for 22 KV P.T.	Nos.	3	1425.00	4275.00
6	Clamp for 22 KV VCB	Nos.	6	2040.00	12240.00
				Total:	183453.00

Sheet
No.7

Cost data for Yard Lighting of 2x5 MVA , 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cmt	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
					215879.00

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x5 MVA 22/11 KV sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	204.00	2040.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	150.00	7500.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	195591.40



Sheet
No.9

Cost data for Control cable 2X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	0.00
2	Control room (As per table B) GIS	0.00
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	0.00
6	WBM Road (As per table D) GIS	0.00
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	0.00
8	Metal Spreading (As per table F) GIS	0.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	0.00
13	Borewell including pumpset and allied accessories. (As per table I) GIS	0.00
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	0.00
15	Construction of retaining wall. (As per table K) GIS	0.00
16	Rain Water Harvesting (As per Table L) Indoor	0.00
17	Culvert (As per Table M) Indoor	0.00
	Total=	0.00

Item Code No. 7012					
GIS 22/11 KV 2 x 5 MVA (other cities)					
Cost data for 22/11 KV, 2 X 5 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33/22 kV Switchgear part				
1	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	2	3305209.00	6610418.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1265000.00	2530000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1265000.00	2530000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1592963.00	1592963.00
5	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1464.00	292800.00
6	22 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	16325.00	130600.00
7	22 KV Isolators with EB (800 A)	Set	2	41547.00	83094.00
8	22 KV Lightning Arrestors (Station type)	Set	4	11884.00	47536.00
9	22 KV Post Insulator	Nos	6	835.00	5010.00
10	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	194970.00	194970.00
B	11 kV Switchgear part				
11	11kV I D switchgear (2 I/c+1 B/c+8O/G)	No	1	3117222.00	3117222.00
12	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	600	1194.00	716400.00
13	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	8	1662.00	13296.00
14	Clamps and Connectors as per Sheet no.4	Mtr.	1	452460.00	452460.00
15	S/S Yard lighting as per Sheet no.5	No.	1	215879.00	215879.00



16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
17	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	196242.40	196242.40
18	Control cables for S/S as per Sheet no.7	No.	1	171605.90	171605.90
19	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
Cost of material					18996821.30

1	Transportation on material	4.00%	759873
2	T&P on material cost	1.00%	189968
3	Contingencies on material	2.50%	474921
5	Erection cost on material	5.00%	949841
6	Contractor supervision charges on material	5.00%	949841
7	Insurance, Labour & Finance Cost	3.00%	569905
Service Cost			3894348
Sub-Total			22891170
8	Turnkey Charges	5.00%	1144558

Total **24035728**

9	Civil Works As per Sheet 'C'	No.	1	5289109
Total Cost of Estimate				29324837

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	30596280	24035728
Civil Works As per Sheet 'C'	6741546	5289109
Total Cost of the Estimate	37337826	29324837

Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/steel section for 2x5 MVA Sub stn. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
				Total:	194970.00

Sheet
No.2

Cost data for Earthing Work at 2x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	810.00	810.00
				Total:	246832.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 2x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
				Total:	48071.00

Sheet
No.4

Cost data for Clamps & Connectors at 2x5 MVA, 33/11 KV S/S



Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
7	Wedge Connectors			#N/A	
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
				Total:	452460.00

Sheet

No.5

Cost data for Yard Lighting of 2X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cum	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet

No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	70.08	20323.20
2	G.I.Channel 75x40x6mm	Kg.	15	70.08	1051.20
3	G.I Flat 75x10 mm	Kg.	20	66.78	1335.60
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
11	Earthing Sets H.T	Nos.	3	342.00	1026.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	Coal	Kg.	200	15.00	3000.00
14	Salt	Kg.	200	7.00	1400.00
15	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	196242.40

Sheet

No.7

Cost data for Control cable 2 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 22/11 KV Sub Station.



Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	0.00	
2	Control room (As per table B) GIS	0.00	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitary Water supply	0.00	
5	Electrification (Lumsum)	0.00	
6	WBM Road (As per table D) GIS	0.00	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	0.00	
8	Metal Spreading (As per table F) GIS	0.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00	
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00	
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00	
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	0.00	
13	Borewell including pumpset and allied accessories. (As per table I) GIS	0.00	
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	0.00	
15	Construction of retaining wall. (As per table K) GIS	0.00	
16	Rain Water Harvesting (As per Table L) Indoor	0.00	
17	Culvert (As per Table M) Indoor	0.00	
	Total=	0.00	

Item Code No. 7013					
GIS 22/11 KV 1 x 10 MVA (for cities Amravati, Nagpur, Pune, Bhandup, Kalyan & Nashik)					
Cost data for 22/11 KV, 1X 10 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33/22 kV Switchgear part				
1	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	1	4769649.00	4769649.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1265000.00	2530000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1265000.00	1265000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1592963.00	1592963.00
5	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1464.00	292800.00
6	22 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	16325.00	130600.00
7	22 KV Isolators with EB (800 A)	Set	2	41547.00	83094.00
8	22 KV Lightning Arrestors (Station type)	Set	4	11884.00	47536.00
9	22 KV Post Insulator	Nos	6	835.00	5010.00
10	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	194970.00	194970.00
B	11 kV Switchgear part				
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	1	843333.00	843333.00
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	4	796481.00	3185924.00
	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	0	1204093.00	0.00
13	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1194.00	2388000.00
14	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1662.00	79776.00
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
16	Earthing complete as per Sheet no.2	Set	2	246832.00	493664.00
17	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	345540.20	691080.40
18	11 kV Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
19	Clamps and Connectors as per Sheet no.5	No.	1	188223.00	188223.00
20	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
21	S/S Yard lighting as per Sheet no.7	No.	1	215879.00	215879.00
22	Control cables for S/S as per Sheet no.9	No.	1	171605.90	171605.90
23	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	199541.40	199541.40
	Cost of material				19446424.70

1	Transportation on material	4.00%	777857
2	T&P on material cost	1.00%	194464



3	Contingencies on material	2.50%	486161
5	Erection cost on material	5.00%	972321
6	Contractor supervision charges on material	5.00%	972321
7	Insurance , Labour & Finance Cost	3.00%	583393
	Service Cost		3986517
	Sub-Total		23432942
8	Turnkey Charges	5.00%	1171647
	Total		24604589
9	Civil Works As per Sheet 'C'	No. 1	5202820
	Total Cost of Estimate		29807409

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	31320412	24604589
Civil Works As per Sheet 'C'	6631561	5202820
Total Cost of the Estimate	37951972	29807409

Sheet
No. 1

Cost data for 22 KV Gantry M.S.Structure/Steel Section for 2x 10 MVA, 22/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
	Total:				194970.00

Sheet
No.2

Cost data for Earthing Work at 2x 10 MVA at 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	810.00	810.00
	Total:				246832.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 2x 10 MVA, 22/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	51.80	16317.00
2	Structure for 22 KV CT	Kg.	360	51.80	18648.00
3	Structure for 22 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
	Total:				48071.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 2x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	9254.00	74032.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Strain Hardware for 0.2 ACSR	Nos.	36	609.00	21924.00
7	Strain Hardware for Dog 0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00



8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 232 mm ²	Rmt.	150	127.40	19110.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.00	12924.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	345540.20

Sheet
No. 5

Cost data for Clamps & Connectors at 2x10 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	30	718.00	21540.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.00	18360.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 22 KV C.T.	Nos.	6	1425.00	8550.00
5	Clamps for 22 KV P.T.	Nos.	3	1425.00	4275.00
6	Clamp for 22 KV VCB	Nos.	6	2040.00	12240.00
				Total:	188223.00

Sheet
No.7

Cost data for Yard Lighting of 2X10 MVA, 22/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt.	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cum	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x10 MVA 22/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00



18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	199541.40

Sheet
No.9

Cost data Control cable 2 X10 MVA 22/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	0.00
2	Control room (As per table B) GIS	0.00
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	0.00
6	WBM Road (As per table D) GIS	0.00
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	0.00
8	Metal Spreading (As per table F) GIS	0.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	0.00
13	Borewell including pumpset and allied accessories. (As per table I) GIS	0.00
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	0.00
15	Construction of retaining wall. (As per table K) GIS	0.00
16	Rain Water Harvesting (As per Table L) Indoor	0.00
17	Culvert (As per Table M) Indoor	0.00
Total=		0.00

Item Code No. 7014

GIS 22/11 KV 1 x 10 MVA (other cities)

Cost data for 22/11 KV, 1X 10 MVA GIS S/s

Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	1	4769649.00	4769649.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	1	1265000.00	1265000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1265000.00	1265000.00
4	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1464.00	292800.00
5	22 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	16325.00	130600.00
6	22 KV Isolators with EB (800 A)	Set	2	41547.00	83094.00
7	22 KV Lightning Arrestors (Station type)	Set	4	11884.00	47536.00
8	22 KV Post Insulator	Nos	6	835.00	5010.00
9	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	194970.00	194970.00
B 11 kV Switchgear part					
10	11kV I D switchgear (1 I/c+1 B/c+4O/G)	No	1	1703020.00	1703020.00
11	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	300	1194.00	358200.00
12	11 kV heat shrinkable indoor termination joint kit for 3 C X 300 sqmm	No	4	1662.00	6648.00



13	Clamps and Connectors as per Sheet no.4	Mtr.	1	390606.00	390606.00
14	S/S Yard lighting as per Sheet no.5	No.	1	211641.00	211641.00
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
16	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	196242.40	196242.40
17	Control cables for S/S as per Sheet no.7	No.	1	85383.45	85383.45
18	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
Cost of material					11101724.85

1	Transportation on material	4.00%	444069
2	T&P on material cost	1.00%	111017
3	Contingencies on material	2.50%	277543
5	Erection cost on material	5.00%	555086
6	Contractor supervision charges on material	5.00%	555086
7	Insurance , Labour & Finance Cost	3.00%	333052
Service Cost			2275854
Sub-Total			13377578
8	Turnkey Charges	5.00%	668879
Total			14046457

9	Civil Works As per Sheet 'C'	No.	1	5202820
Total Cost of Estimate				19249277

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	17880438	14046457
Civil Works As per Sheet 'C'	6631561	5202820
Total Cost of the Estimate	24511999	19249277

Sheet
No. 1

Cost data for 22 KV Gantry M.S.Structure/Steel Section for 2x 10 MVA, 22/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
Total:					194970.00

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I..Flat 50 x 6 mm	Kg.	1500	66.78	100170.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2900.00	2900.00
Total:					276342.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No.4



Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.00	23808.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
7	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
				Total:	390606.00

Sheet
No.5

Cost data for Yard Lighting of 1X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	7	3027.00	21189.00
6	Red Bricks	No.	1000	5.50	5500.00
7	Sand	Cum	6	222.00	1332.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	211641.00

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	70.08	20323.20
2	G.I.Channel 75x40x6mm	Kg.	15	70.08	1051.20
3	G.I Flat 75x10 mm	Kg.	20	66.78	1335.60
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
11	Earthing Sets H.T	Nos.	3	342.00	1026.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	Coal	Kg.	200	15.00	3000.00
14	Salt	Kg.	200	7.00	1400.00
15	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	196242.40

Sheet
No.7

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	331.39	41423.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	216.24	28111.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	87.60	4818.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.11	2755.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	78.00	7800.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	85383.45

C Cost data for civil works for 22/11 KV Sub Station.



Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	0.00	
2	Control room (As per table B) GIS	0.00	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitary Water supply	0.00	
5	Electrification (Lumsum)	0.00	
6	WBM Road (As per table D) GIS	0.00	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	0.00	
8	Metal Spreading (As per table F) GIS	0.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00	
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00	
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00	
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	0.00	
13	Borewell including pumpset and allied accessories. (As per table I) GIS	0.00	
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	0.00	
15	Construction of retaining wall. (As per table K) GIS	0.00	
16	Rain Water Harvesting (As per Table L) Indoor	0.00	
17	Culvert (As per Table M) Indoor	0.00	
		0.00	

Item Code No. 7015					
GIS 22/11 KV 2 x 10 MVA (for cities Amravati, Nagpur, Pune, Bhandup, Kalyan & Nashik)					
Cost data for 22/11 KV, 2X 10 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33/22 kV Switchgear part				
1	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	2	4769649.00	9539298.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1265000.00	2530000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1265000.00	2530000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1592963.00	1592963.00
5	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1464.00	292800.00
6	22 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	16325.00	130600.00
7	22 KV Isolators with EB (800 A)	Set	2	41547.00	83094.00
8	22 KV Lightning Arrestors (Station type)	Set	4	11884.00	47536.00
9	22 KV Post Insulator	Nos	6	835.00	5010.00
10	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	194970.00	194970.00
B	11 kV Switchgear part				
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	2	843333.00	1686666.00
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	8	796481.00	6371848.00
13	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	1	1204093.00	1204093.00
14	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1194.00	2388000.00
15	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1662.00	79776.00
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
17	Earthing complete as per Sheet no.2	Set	2	246832.00	493664.00
18	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	345540.20	691080.40
19	11 kV Pin Insulators with G.I. Pins	No.	24	135.00	3240.00
20	Clamps and Connectors as per Sheet no.5	No.	1	188223.00	188223.00
21	L.As. 11 KV (Gapless type) with disconnector	Set	2	1268.00	2536.00
22	S/S Yard lighting as per Sheet no.7	No.	1	215879.00	215879.00
23	Control cables for S/S as per Sheet no.9	No.	1	171605.90	171605.90
24	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	199541.40	199541.40
	Cost of material				30714423.70

1	Transportation on material	4.00%	1228577
2	T&P on material cost	1.00%	307144



3	Contingencies on material	2.50%	767861
5	Erection cost on material	5.00%	1535721
6	Contractor supervision charges on material	5.00%	1535721
7	Insurance , Labour & Finance Cost	3.00%	921433
	Service Cost		6296457
	Sub-Total		37010881
8	Turnkey Charges	5.00%	1850544
	Total		38861425
9	Civil Works As per Sheet 'C'	No. 1	5314200
	Total Cost of Estimate		44175625

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	49468651	38861425
Civil Works As per Sheet 'C'	6773527	5314200
Total Cost of the Estimate	56242178	44175625

Sheet
No. 1

Cost data for 22 KV Gantry M.S.Structure/Steel Section for 2x 10 MVA, 22/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
	Total:				194970.00

Sheet
No.2

Cost data for Earthing Work at 2x 10 MVA at 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	810.00	810.00
	Total:				246832.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 2x 10 MVA, 22/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	51.80	16317.00
2	Structure for 22 KV CT	Kg.	360	51.80	18648.00
3	Structure for 22 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
	Total:				48071.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 2x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	9254.00	74032.00
2	MS Channel 100x50x6 mm	Kg.	1610	51.80	83398.00
3	MS angle 50x50x6 mm	Kg.	100	51.80	5180.00
4	MS Flat 75x10 mm	Kg.	80	48.50	3880.00
5	11KV A.B. Switch, 400 A	Nos.	3	9240.00	27720.00
6	Strain Hardware for 0.2 ACSR	Nos.	36	609.00	21924.00
7	Strain Hardware for Dog 0.1 or Equ.AAAC.	Nos.	36	322.00	11592.00



8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.00	1215.00
9	Earthing Sets H.T	Sets	3	342.00	1026.00
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1268.00	3804.00
11	AAAC 232 mm ²	Rmt.	150	127.40	19110.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	G.I.Nut Bolts	Kg.	50	82.90	4145.00
14	Concreting ration 1:3:6	Cmt.	4	3027.00	12108.00
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.00	12924.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscellaneous material	LS	1	475.00	475.00
				Total:	345540.20

Sheet
No. 5

Cost data for Clamps & Connectors at 2x10 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	30	718.00	21540.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.00	18360.00
3	Connectors for T/F Bushing	Nos.	6	3783.00	22698.00
4	Clamps for 22 KV C.T.	Nos.	6	1425.00	8550.00
5	Clamps for 22 KV P.T.	Nos.	3	1425.00	4275.00
6	Clamp for 22 KV VCB	Nos.	6	2040.00	12240.00
				Total:	188223.00

Sheet
No.7

Cost data for Yard Lighting of 2X10 MVA, 22/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cum	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x10 MVA 22/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	51.80	15022.00
2	M.S.Channel 75x40x6 mm	Kg.	15	51.80	777.00
3	MS Flat 75x10 mm	Kg.	20	48.50	970.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV A.B. Switch, 400 A	Set	1	9240.00	9240.00
7	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
12	Earthing Sets H.T	Nos.	3	342.00	1026.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
14	Coal	Kg.	200	15.00	3000.00
15	Salt	Kg.	200	7.00	1400.00
16	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00



				Total:	199541.40
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Sheet
No.9

Cost data Control cable 2 X10 MVA 22/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	0.00
2	Control room (As per table B) GIS	0.00
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	0.00
6	WBM Road (As per table D) GIS	0.00
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	0.00
8	Metal Spreading (As per table F) GIS	0.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	0.00
13	Borewell including pumpset and allied accessories. (As per table I) GIS	0.00
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	0.00
15	Construction of retaining wall. (As per table K) GIS	0.00
16	Rain Water Harvesting (As per Table L) Indoor	0.00
17	Culvert (As per Table M) Indoor	0.00
	Total=	0.00

Item Code No. 7016					
GIS 22/11 KV 2 x 10 MVA (other cities)					
Cost data for 22/11 KV, 2X 10 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33/22 kV Switchgear part				
1	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	2	4769649.00	9539298.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1265000.00	2530000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1265000.00	2530000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	Mtr.	1	1592963.00	1592963.00
5	XLPE Cable 22 KV, 3 C / 300 mm sq.	No.	200	1464.00	292800.00
6	22 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	Set	8	16325.00	130600.00
7	22 KV Isolators with EB (800 A)	Set	2	41547.00	83094.00
8	22 KV Lightning Arrestors (Station type)	Nos	4	11884.00	47536.00
9	22 KV Post Insulator	Nos	6	835.00	5010.00
10	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	194970.00	194970.00
B	11 kV Switchgear part				
11	11kV I D switchgear (2 I/c+1 B/c+8O/G)	No	1	3117222.00	3117222.00
12	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	600	1194.00	716400.00
13	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	8	1662.00	13296.00
14	Clamps and Connectors as per Sheet no.4	Mtr.	1	452460.00	452460.00



15	S/S Yard lighting as per Sheet no.5	No.	1	215879.00	215879.00
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	72000.00	72000.00
17	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	196242.40	196242.40
18	Control cables for S/S as per Sheet no.7	No.	1	171605.90	171605.90
19	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
Cost of material					21925701.30

1	Transportation on material	4.00%	877028
2	T&P on material cost	1.00%	219257
3	Contingencies on material	2.50%	548143
5	Erection cost on material	5.00%	1096285
6	Contractor supervision charges on material	5.00%	1096285
7	Insurance , Labour & Finance Cost	3.00%	657771
Service Cost			4494769
Sub-Total			26420470
8	Turnkey Charges	5.00%	1321024

Total 27741494

9	Civil Works As per Sheet 'C'	No.	1	5314200
Total Cost of Estimate				33055694

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	35313535	27741494
Civil Works As per Sheet 'C'	6773527	5314200
Total Cost of the Estimate	42087061	33055694

Sheet
No. 1

Cost data for 22 KV Gantry M.S.Structure/Steel Section for 2x 10 MVA, 22/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	48500.00	144336.00
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	48500.00	50634.00
Total:					194970.00

Sheet
No.2

Cost data for Earthing Work at 2x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	48.50	72750.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6300.00	138600.00
3	Coal	Kg.	1310	15.00	19650.00
4	Salt	Kg.	1310	7.00	9170.00
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	810.00	810.00
Total:					246832.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 2x10 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	51.80	16317.00
2	Structure for 33 KV CT	Kg.	360	51.80	18648.00
3	Structure for 33 KV L.A.	Kg.	155	51.80	8029.00
4	Structure for Power T/F Neutral Earthing	Kg.	50	51.80	2590.00
5	G.I.Nut Bolts	Kg.	30	82.90	2487.00
Total:					48071.00

Sheet
No.4

Cost data for Clamps & Connectors at 2x10 MVA 33/11 KV S/S



Cost data for Clamps & Connectors at 33/11KV, 33/11KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	42	992.00	41664.00
3	Connectors for T/F Bushing	Nos.	12	3783.00	45396.00
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
7	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	559.00	16770.00
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
				Total:	452460.00

Sheet
No.5

Cost data for Yard Lighting of 2X 10 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	6300.00	88200.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	78.00	19500.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	77.00	7700.00
5	Concreting ration 1:3:6	Cmt	8	3027.00	24216.00
6	Red Bricks	No.	1200	5.50	6600.00
7	Sand	Cum	6.5	222.00	1443.00
8	Sundries	L.S.	-	810.00	810.00
				Total:	215879.00

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 10 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	70.08	20323.20
2	G.I.Channel 75x40x6mm	Kg.	15	70.08	1051.20
3	G.I Flat 75x10 mm	Kg.	20	66.78	1335.60
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	12822.00	12822.00
6	11KV H.G.Fuses	Nos.	1	1964.00	1964.00
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1268.00	1268.00
8	11 kv Pin Insulators with G.I. Pins	Nos.	6	135.00	810.00
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	329.00	3290.00
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	204.00	10200.00
11	Earthing Sets H.T	Nos.	3	342.00	1026.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	66.78	2671.20
13	Coal	Kg.	200	15.00	3000.00
14	Salt	Kg.	200	7.00	1400.00
15	Plinth for station Transformer	Cmt.	5.6	3027.00	16951.20
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	110.00	3300.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.00	2060.00
				Total:	196242.40

Sheet
No.7

Cost data for Control cable 2 X 10 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	331.39	82847.50
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	216.24	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	87.60	10950.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.11	5511.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	78.00	15600.00
6	Miscellaneous material	L.S	1	475.00	475.00
				TOTAL	171605.90



C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	0.00	
2	Control room (As per table B) GIS	0.00	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitary Water supply	0.00	
5	Electrification (Lumsum)	0.00	
6	WBM Road (As per table D) GIS	0.00	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	0.00	
8	Metal Spreading (As per table F) GIS	0.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00	
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00	
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00	
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	0.00	
13	Borewell including pumpset and allied accessories. (As per table I) GIS	0.00	
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	0.00	
15	Construction of retaining wall. (As per table K) GIS	0.00	
16	Rain Water Harvesting (As per Table L) Indoor	0.00	
17	Culvert (As per Table M) Indoor	0.00	
	Total=	0.00	

Item Code No. 1230					
COST DATA FOR 11 KV SPECIAL DESIGNED TRANSFORMER					
S.N.	Description of material	Unit	Qty.	Rate	Amt. Rs.
1	11kV Specially Designed Transformer with all accessories, Control cable, Relays, Contactors, Indicators etc.	Set	1	121670.00	121670
2	11 KV CT for SDT	No	1	10611.00	10611.00
3	11kV Gang operated Three pole double throw change over switch	Set	1	13400.00	13400
4	11kV DP structure with L.A. as per sheet 'A'	No	1	47890.90	47890.90
5	Permanent earthing system by use of Pipe in pipe arrangement, with earthing materials Bentonite clay, salt, coal etc	No	2	6607.00	13214
6	GI Pipe 20 mm	rmt	15	70.08	1051.20
7	16 mm 2 Single core multistrand copper Armored cable.	rmt	15	109.00	1635.00
8	CT Box SMC Type Meter Box (Hinge Type) Size: 400X300X190 mm	No.	1	755.00	755.00
9	Relay Box MS fabricated with powder coating suitable for outdoor installation of Relay.	No.	1	1164.00	1164.00
10	1" PVC pipe for laying control cable	rmt	25	73.00	1825.00
	Cost of Material				213216.10

1	Transportation on material	4.00%	8528.64
2	T&P on material cost	1.00%	2132.16
3	Contingencies on material	2.50%	5330.40
4	Erection cost on material	5.00%	10660.81
5	Contractor supervision charges on material	5.00%	10660.81
6	Insurance , Labour & Finance Cost	3.00%	6396.48
B	Service Cost		43709.30
c	Sub-Total		256925.40
7	Profit	5.00%	12846.27
D	Centages		

Particulars	DPR Amount	Tender/ Estimate Amount
	61.06%	26.525%
Cost with overheads on Material	343406	269772
Total Cost of the Estimate	343406	269772

SHEET A DOUPLE POLE STRUCTURE FOR SPECIAL DESIGN TRANSFORMER

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 9 m long	No.	2	9254.00	18508.00
2	M.S. Flats(50 X 10mm)	Kg.	12	48.50	582.00
3	M.S.Flat 50 x 6 mm	Kg.	10	48.50	485.00
4	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
5	M.S.Channel 75x40x6 mm	Kg.	42	51.80	2175.60
6	MS angle 50x50x6 mm	Kg.	30	51.80	1554.00
7	11 kV Pin Insulators with G.I. Pins	No.	3	135.00	405.00
8	Strain Hardware for 55 Sq.mm AAAC	Set	6	140.00	840.00
9	Disc Insulator 11 KV 70 KN	No.	6	344.00	2064.00
10	H.T.Stay Set	No.	4	598.00	2392.00
11	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	24	57.45	1378.80
12	Earthing Sets H.T	No	3	342.00	1026.00
13	G.I.Wire 8 SWG/ 6 SWG	kg.	5	57.40	287.00
14	L.As. 11 KV (Gapless type) with disconnector	No.	2	1268.00	2536.00
15	Danger Board in yard.	No.	2	50.00	100.00
16	Concreting ration 1:3:6	Cmt.	2.5	3027.00	7567.50
17	Sundries, such as Nut-Bolts, wedge connectos, Washers, Jumper & Minor fabrication., painting, earthing materials	L.S.	1	810.00	810.00
Sub-Total A					47890.90

Item code No. 0819 R

22kV SPCP With 2no pin type line on RSJ 9 M POLE

S.N.	Description of material	Unit	Qty.	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 9 m long	No.	3	9254.00	27762.00
2	M.S.Channel 75x40x6 mm	Kg.	40	51.80	2072.00
3	MS angle 50x50x6 mm	Kg.	25	51.80	1295.00
4	M.S. Flats(50 X 10mm)	Kg.	2	48.50	97.00
5	22 KV V cross arm with clamp	No.	2	906.00	1812.00
6	22 KV Top fitting	No.	2	382.00	764.00
7	G.I.Nut Bolts	Kg.	15	82.90	1243.50
8	22 KV Pin Insulators with G.I. Pins	No.	6	336.00	2016.00
4	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	322.00	1932.00
5	Disc Insulator 11 KV 70 KN	No.	12	344.00	4128.00
6	H.T.Stay Set	No.	4	598.00	2392.00
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	26	57.45	1493.70
8	Earthing Sets H.T	No.	3	342.00	1026.00
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	57.40	114.80
10	G.I.Barbed Wire 'A' type.	Kg.	2	64.27	128.54
11	Danger Board in yard.	No.	3	50.00	150.00
12	Black Bituminous Paint	Ltr.	0.5	85.00	42.50
13	Red Oxide Paint for 2 coats	Ltr.	1.5	85.00	127.50
14	Aluminium Paint for 1 coat	Ltr.	1	113.00	113.00
15	Concreting ration 1:3:6	Cmt.	1.5	3027.00	4540.50
16	Sundries	LS	1	810.00	810.00

Cost of material

54060.04

1	Transportation on material	4.00%	2162.40
2	T&P on material cost	1.00%	540.60
3	Contingencies on material	2.50%	1351.50



4	Erection cost on material	15.00%	8109.01
5	Contractor supervision charges on material	5.00%	2703.00
6	Insurance , Labour & Finance Cost	3.00%	1621.80
B	Service Cost		16488.31
c	Sub-Total		70548.35
7	Profit	5.00%	3527.42
D	Centages		
E	Tender Cost		74076

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	94075	74076
Total Cost of the Estimate	94075	74076

Item Code No. 0815 R					
22 kV Single Circuit Express/Highway Crossing with 100 sqmm AAAC line on 152X152MM, 13 mtr RSJ Poles					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	21562.00	86248.00
2	M.S.Channel 75x40x6 mm	Kg.	160	51.80	8288.00
3	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
4	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
5	AAAC 100 mm2	m	100	51.82	5182.00
6	22 kV Pin Insulators with G.I. Pins	NO.	6	336.00	2016.00
7	Disc Insulator 11 KV 45 KN	NO.	24	244.00	5856.00
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	322.00	3864.00
9	H.T.Stay Set	No	4	598.00	2392.00
10	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
11	Earthing Sets H.T	No.	4	342.00	1368.00
12	Danger Board in yard.	No.	4	50.00	200.00
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
14	G.I.Barbed Wire 'A' type.	kg.	30	64.27	1928.10
15	Concreting ration 1:3:6	CMT.	4	3027.00	12108.00
16	Black Bituminus Paint	Ltr.	2	85.00	170.00
17	Red Oxide Paint for 2 coats	Ltr.	6	85.00	510.00
18	Aluminium Paint for 1 coat	Ltr.	4	113.00	452.00
19	Sundries	L.S.	1	810.00	810.00
20	Wedge connectors			0.00	
a)	DOG TO DOG or equivalent AAAC	No	12	559.00	6708.00

Cost of material 143274.95

1	Transportation on material	4.00%	5731.00
2	T&P on material cost	1.00%	1432.75
3	Contingencies on material	2.50%	3581.87
4	Erection cost on material	15.00%	21491.24
5	Contractor supervision charges on material	5.00%	7163.75
6	Insurance , Labour & Finance Cost	3.00%	4298.25
B	Service Cost		43698.86
c	Sub-Total		186973.81
7	Profit	5.00%	9348.69
D	Centages		
E	Tender Cost		196323

Particulars	DPR Amount	Tender/ Estimate Amount
		74.02%
Cost with overheads on Material	249327	196323
Total Cost of the Estimate	249327	196323



Item Code No. 0813R

Cost Data for laying of 1 Km. 22 KV 3 C 300 Sqmm XLPE under ground Cable

Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount
1	XLPE Cable 22 KV, 3 C / 300 mm sq.	Rmt	100	1464.00	146400
2	R.C.C. Pipe 150 mm 2 M	No	40	572.00	22880
3	Half round cement pipe (150mm X 1mtr)	No.	700	110.00	77000
4	22 kV Heat shrik Straight through joint (AI) kit for XLPE 3 C X 300 sqmm	No.	1	24600.00	24600
5	22 kV Heat shrik Outdoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	4	13715.00	54860
6	Sand	Cmt	200	222.00	44400
7	Misc. for XLPE U/G Cable	LS	1	1050.00	1050
	Cost of material				371190

1	Transportation on material	4.00%	14847.60
2	T&P on material cost	1.00%	3711.90
3	Contingencies on material	2.50%	9279.75
4	Erection cost on material	15.00%	55678.50
5	Contractor supervision charges on material	5.00%	18559.50
6	Insurance , Labour & Finance Cost	3.00%	11135.70
B	Service Cost		113212.95
c	Sub-Total		484402.95
7	Profit	5.00%	24220.15
D	Centages		
E	Tender Cost		508623

Particulars	DPR Amount	Tender/ Estimate Amount
	74.02%	37.025%
Cost with overheads on Material	645945	508623
Total Cost of the Estimate	645945	508623

Item Code No. 1018

2) 22 KV SPECIAL DESIGNED TRANSFORMER TO AG. FEEDER

S.N.	Description of material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	22kV Specially Designed Transformer with all accessories, control cables, Relays, Contactors, Indicators etc.	Set	1	180250.00	180250
2	22 kV CT for SDT	No	1	23767.00	23767.00
3	22kV Gang operated Three pole double throw change over switch	Set	1	6795.00	6795
4	22kV DP structure with L.A. as per sheet 'A'	No	1	52581.90	52581.90
5	Permanent earthing system by use of Pipe in pipe arrangment, with earthing materials Bentonite clay, salt, coal etc	No	2	6607.00	13214
6	GI Pipe 20 mm	No	15	70.08	1051.20
7	16 mm 2 Single core multistrand copper Armored cable.	rmt	15	109.00	1635.00
8	CT Box SMC Type Meter Box (Hinge Type) Size: 400X300X190 mm	No	1	755.00	755.00
9	Relay Box MS fabricated with powder coating suitable for outdoor installation of Relay.	No.	1	1164.00	1164.00
10	1" PVC pipe for laying control cable	rmt	25	73.00	1825.00
	Cost of Material				283038.10

1	Transportation on material	4.00%	11321.52
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2	T&P on material cost	1.00%	2830.38
3	Contingencies on material	2.50%	7075.95
4	Erection cost on material	5.00%	14151.91
5	Contractor supervision charges on material	5.00%	14151.91
6	Insurance , Labour & Finance Cost	3.00%	8491.14
B	Service Cost		58022.81
c	Sub-Total		341060.91
7	Profit	5.00%	17053.05
D	Centages		
E	Tender Cost		358114

Particulars	DPR Amount	Tender/ Estimate Amount
		61.06%
Cost with overheads on Material	455861	358114
Total Cost of the Estimate	455861	358114

SHEET A DOUPLE POLE STRUCTURE FOR SPECIAL DESIGN TRANSFORMER					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 9 m long	No.	2	9254.00	18508.00
2	M.S. Flats(50 X 10mm)	Kg.	12	48.50	582.00
3	M.S.Flat 50 x 6 mm	Kg.	10	48.50	485.00
4	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
5	M.S.Channel 75x40x6 mm	Kg.	42	51.80	2175.60
6	MS angle 50x50x6 mm	Kg.	30	51.80	1554.00
7	22 kV Pin Insulators with G.I. Pins	No.	3	336.00	1008.00
8	Strain Hardware for 55 Sq.mm AAAC	No.	6	140.00	840.00
9	Disc Insulator 11 KV 70 KN	No.	12	344.00	4128.00
10	H.T.Stay Set	No.	4	598.00	2392.00
11	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	24	57.45	1378.80
12	Earthing Sets H.T	No	3	342.00	1026.00
13	G.I.Wire 8 SWG/ 6 SWG	kg.	5	57.40	287.00
14	L.A.s 22KV (Gapless type) with disconnecter	No.	2	2280.00	4560.00
15	Danger Board in yard.	No.	2	50.00	100.00
16	Concreting ration 1:3:6	Cmt.	2.5	3027.00	7567.50
16	Sundries, such as Nut-Bolts, wedge connectos, Washers, Jumper & Minor fabrication., painting, earthing materials	L.S.	1	810.00	810.00
Sub-Total A					52581.90