ANDHRA PRADESH CENTRAL POWER DISTRIBUTION CORPORATION LIMITED

CORPORATE OFFICE :: VIJAYAWADA

Memo.No.CMD/CGM/O&M/VJA/EE/DY.EE/F.Cost Data/D.No.569/ 23, Dt.26.03.2024

Sub:- APCPDCL – Corporate Office/O&M/VJA – Commercial – Revised Cost Data for the year 2023-2024 – **Communicated** – Reg.

Ref:- Approved note order of Chairman & Managing Director,Dt. .03.2024.

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All the Superintending Engineers/Operation are requested to follow the approved Cost Data for 2023-2024 for estimates etc., and to distribute the copies up to the Section Officer / level by printing the copies at their end.

Encl : Cost Data Book.

Sd/-
CHAIRMAN & MANAGING DIRECTOR
APCPDCL : VIJAYAWADA

To
The Superintending Engineer/Operation/Vijayawada, CRDA, Guntur, Ongole
Copy to the Director/Technical
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Copy to the Chairman & Managing Director/APEPDCL/Visakapatnam
Copy to the Chief Engineer/O&RE/APTRANSCO/Vidyuth soudha/Vijayawada

- Encl :- Book Let – 1 No

FORWARDED :: BY ORDER

CHIEF GENERAL MANAGER / OPERATION & MAINTENANCE

REVISED

COST DATA

FOR

2023-2024



CENTRAL POWER DISTRIBUTION CORPORATION

OF ANDHRA PRADESH LIMITED

VIJAYAWADA

COST DATA OF CENTRALISED MAERIALS FOR R.E. AND DISTRIBUTION WORKS

2023-24

SL NO	SAP Material code	Description of materials	UNIT	Rupees
	1) SUPPORTS AND FIXTURES, IRON, STEEL AND CEMENT			
		1.A) RS JOISTS		
1	MST00032	RS JOIST 175X85MM	MT	63720.00
2	MST00029	RS JOIST 150X150MM	MT	75000.00
3	MST00030	RS JOIST 150X75MM	MT	63720.00
4	MST00037	RS JOIST 175 X 50 MM	MT	63720.00
		1.B) PSCC POLES		
1	PLS00014	PSCC SPUN POLES 12.5 MTS	EA	18400.00
2	PLS00007	PSCC SPUN POLES 11 MTS	EA	16900.00
3	PLS00015	PSCC Poles 11.0MTS	EA	8500.00
4	PLS00004	PSCC POLES 9.1 MTS 280KGS	EA	4910.00
5	PLS00002	PSCC POLES 8 MTS 200KGS	EA	3450.00
6	PLS00001	PSCC POLES 8 MTS 140KGS	EA	2250.00
7	PLS00010	RCC FENCING POLES 3 MTS	EA	333.72
8	PLS00009	RCC FENCING POLES 2 MTS	EA	135.96
9	PLS00011	RCC BASE PLATES	EA	86.52
		1.C) STEEL MATERIALS		
1	MST00012	MS CHANNEL 100X50	MT	85400.00
2	MST00013	MS CHANNEL 75X40	MT	85400.00
3	MST00011	MS CHANNEL 150X75	MT	62434.00
4	MST00003	MS ANGLE 65X65X6	MT	79300.00
5	MST00002	MS ANGLE 50X50X6	MT	79300.00
6	MST00009	MS ANGLE 130X130X12	MT	62434.00
7	MST00015	MS FLAT 75X8	MT	81540.00
8	MST00014	MS FLAT 50X6	MT	81540.00
9	MST00019	MS ROD 20MM	MT	62434.00
10	MST00018	MS ROD 16MM	MT	62434.00
		1.D) STEEL WIRE		
1	WRS00011	HT STEEL WIRE 4MM	MT	74629.20
2	WRS00006	GI STAYWIRE 7/3.15MM (10 SWG)	MT	105000.00
3	WRS00007	GI STAYWIRE 7/2.5MM (12 SWG)	MT	105000.00
4	WRS00005	G.I. WIRE 4MM (NO.8)	MT	105000.00
		1.E) BOLTS AND NUTS		
1	BNT00028	MS BOLTS & NUTS 5/8" X 6"	MT	90000.00
2	**BNT00031**	MS BOLTS & NUTS 5/8" X 9"	KG	127.44
3	BNT00024	MS BOLTS & NUTS 5/8" X 2.5"	MT	81770.00
4	BNT00025	MS BOLTS & NUTS 5/8" X 3"	MT	81770.00
5	**BNT00026**	MS BOLTS & NUTS 5/8" X 4"	KG	128.00
6	BNT00006	GI BOLTS & NUTS 1/2" X 1 1/2"	MT	110000.00
7	BNT00009	GI BOLTS & NUTS 3/8" X 1 1/2"	MT	118000.00

SL NO	SAP Material code	Description of materials	UNIT	Rupees
8	BNT00022	MS BOLTS & NUTS 5/8" X 1.5"	MT	81770.00
9	BNT00023	MS BOLTS & NUTS 5/8" X 2"	MT	81770.00
10	BNT00030	MS BOLTS & NUTS 5/8" X 8"	MT	126810.00
11	BNT00035	MS BOLTS & NUTS 3/8" X 1 1/2" FULL TH	MT	81770.00
12	BNT00038	MS BOLTS & NUTS 1/2"X1 1/2"	MT	81770.00
13	BNT00043	MS FULL NUTS 16MM (1" Thick)	MT	81770.00
14	BNT00044	MS HALF NUTS 16MM (1/2" Thick)	MT	81770.00
15	BNT00045	M.S.HEXAGONAL POLISHED NUTS 3/4	MT	81770.00
		1.F) CEMENT		
1	CEM00004	OP CEMENT 53 GRADE FOR POLES	MT	9000.00
	2) INSULATORS AND HARDWARE			
		2.A) 33 KV		
1	INS30002	33KV SOLID CORE INSULATORS	EA	1568.48
2	INS30004	33KV 70KN COMPOSITE POLYMER INSULATOR	EA	650.00
3	INS30003	33KV POST TYPE INSULATORS (STAGS)	EA	964.08
4	INS30006	33KV 70KN DISC INSULATORS	EA	469.68
5		33KV PIN INSULATORS (Polymer) with GI pin	EA	659.69
6	INS30001	33KV PIN INSULATORS	EA	464.40
7	HWR00003	33KV GI PINS	EA	195.29
8	HWR00004	33KV METAL PARTS (B&S)	SET	350.00
		2.B) 11 KV		
1	INS10006	11KV SOLID CORE INSULATORS FOR AB SWITCH	EA	265.20
2	INS10007	11KV SOLID CORE INSULATORS FOR HG FUSES	EA	163.00
3	INS10009	11KV POLYMER INSULATORS (B&S)	EA	309.00
4	INS10003	11KV POLYMER INSULATORS (C&T)	EA	296.40
5	INS10011	11 KV POLYMER DISC	EA	350.00
6	INS10008	11KV POST TYPE INSULATORS	EA	322.51
7	INS10004	11KV DISC INSULATORS (B&S)	EA	310.00
8	INS10002	11KV DISC INSULATORS (C&T)	EA	260.00
9	INS10012	11KV PIN INSULATORS (Polymer)	EA	380.07
10	INS10001	11KV PIN INSULATORS	EA	105.00
11	HWR00001	11KV GI PINS	EA	80.00
12	HWR00002	11KV METAL PARTS (C&T)	SET	150.00
13	INS10005	11KV GUY INSULATORS (HT)	EA	80.00
		2.C) LT		
1	**INS00001**	LT PIN INSULATORS	EA	41.00
2	HWR00015	LT GI PINS	EA	37.00
3	**INS00002**	LT SHACKLES	EA	41.00
4	**HWR00016**	LT METAL PARTS	SET	60.00
5	INS00005	BUS-BAR INSULATORS WITH ALUMINIUM STRIP	EA	74.16
6	INS00003	LT GUY INSULATORS	EA	31.00
	3) CROSS ARMS			
		3.A) 33 KV CROSS ARMS AND TOP FITTINGS		
1	FBE00026	33KV TAPING CHANNEL X ARMS	EA	2000.00
2	FBE30003	33KV V CROSS ARMS WITH CLAMPs	EA	2196.00

SL NO	SAP Material code	Description of materials	UNIT	Rupees
3	FBE30004	33KV V CROSS ARMS WITHOUT CLAMPS	EA	1231.06
4	FBE30018	33KV CHANNEL V X ARMs FOR SPUN POLE WITH CLAMPs	EA	2000.00
5	FBE30006	33KV TOP CLEAT WITH CLAMPs	EA	931.00
		3.B) 11KV CROSS ARMS AND TOP FITTINGS		
1	FBE10004	11KV M.S CHANNEL CROSS ARM(TAPPING)75X40	EA	719.65
2	FBE10006	11KV HORIZONTAL CROSS ARMS	EA	556.20
3	FBE10033	11KV TAPPING X ARM W 100X50MM MS CHANNEL	EA	778.68
4	**FBE10035**	11KV MS CH X ARM(TAPING)75X40 WITH CLAMP	EA	1500.00
5	FBE10001	11KV ANGLE V-X ARMS 65X65X6 W/O CLAMPS	EA	789.34
6	FBE10002	11KV VX ARMS WITH MSCHANNEL 140KG	EA	689.69
7	FBE10003	11KV VCROSS ARMS WITH CLAMPS 200KG	EA	1078.00
8	FBE10016	11KV V 'X' ARM(75X40) WITH CLAMP FOR 9.1	EA	1108.00
9	FBE10028	11KV ANGLE V-X ARM WITH CLAMP 140 KG	EA	639.60
10	FBE10034	11KV ANGLE V-X ARM WITH CLAMP 200 KG	EA	650.00
11	FBE00025	11 KV SIDE ARM WITH STUTT	EA	2000.00
12	FBE10007	11KV TOP CLEAT WITH CLAMPS For 8.0	EA	431.00
13	FBE10021	11KV TOP CLEAT WITH CLAMPS FOR 9.1	EA	460.00
14	FBE10032	11KV Spl. Type Top Fittings with Clamps	EA	210.12
		3.C) LT CROSS ARMS		
1	FBE00008	LT 3 PH. 5 WIRE CROSS ARMS	EA	794.00
2	**FBE00039**	LT RAISING 3-PHASE 5 WIRE CROSS ARM	EA	2300.00
3	FBE00020	LT 3PH 4 WIRE X ARMS WITHOUT CLAMP	EA	296.64
4	FBE00007	LT 3 PH 4WIRE CROSS ARM & CLAMP (200KG)	EA	654.00
5	FBE00009	LT 3 PH 4WIRE CROSS ARM & CLAMP (140KG)	EA	446.20
6	FBE00030	LT 3PH ANGLE X-ARM W CLAMP[50X50X6] 140KG	EA	271.92
7	FBE00036	LT 3PH SIDE ARMS WITH STUTT	SET	2300.00
8	FBE00045	LT 3PH SIDE ARMS WITH STUTT & CLAMPS	SET	1062.96
9	FBE00034	LT 1 PH. 3 WIRE CROSS ARM WITHOUT CLAMP	EA	383.16
10	FBE00006	LT 1 PH. 3 WIRE CROSS ARM WITH CLAMP	EA	550.00
11	FBE00029	LT 1PH 3 W ANGLE X-ARM W CLAMP [50X50X6)	EA	484.53
12	FBE00033	LT 1 PH. 2 WIRE CROSS ARMS W/O CLAMP	EA	321.36
13	FBE00024	LT STUT AND SIDE ARM	EA	2300.00
		3.D) BACK CLAMPS		
1	FBE30001	33KV M.S.BACK CLAMPS	EA	257.00
2	FBE30024	33KV M.S.BACK CLAMPS FOR SPUN POLES	EA	250.00
3	FBE30002	f	EA	432.00
4	FBE00002	M.S.BACK CLAMPS FOR 9.1 M PSCC POLE	EA	119.89
5	FBE00040	M.S.BACK CLAMPS FOR 9.1 M POLE 75X8	EA	250.00
6	FBE00001	M.S.BACK CLAMPS FOR 8 MPSCC POLES 200KG	EA	100.00
7	FBE00041	MS.BACK CLAMP 8M POLES 200KG(SLOT HOLE)	EA	200.00
8	FBE00048	MS STRUT CLAMPS FOR 8M/200KG POLES (SET)	EA	92.70
9	FBE00038	MS STAY CLAMP FOR 140 KG POLE	EA	86.52
10	FBG00019	M.S.STAY CLAMPS SPECIAL	EA	173.00
11	FBE00021	POLE MOUNTING CLAMPS	EA	50.00

SL NO	SAP Material code	Description of materials	UNIT	Rupees
		3.E) STAY SETS		
1	FBE30008	33KV MS STAY SETS WITH BASE PLATE	EA	1200.00
2	FBE30009	33KV MS STAY SETS WITHOUT BASEPLATE	EA	1393.00
3	FBE30010	33KV MS STAY SET WITHOUT CLAMPS	EA	800.00
4	FBE30021	33KV MS STAY SET WITH CLAMPS For 9.1MTS POLES		1500.00
5	FBE10022	11KV MS STAY SET WITH CLAMPS	EA	541.62
6	FBE10010	11KV MS STAY SETS WITHOUT BASEPLATE	EA	763.00
7	FBE10023	11KV MS STAY SETS WITH OUT CLAMPS	SET	271.92
8	FBE00004	M.S.STAY CLAMPS FOR 9.1 M PSCC POLE	EA	250.00
9	FBE00028	M.S.STAYSET WITH CLAMPS FOR 8M PSCCPOLES	EA	383.16
10	FBE00003	M.S.STAY CLAMPS FOR 8 MPSCC POLES (SET)	EA	161.00
		3.F) DP STRUCTURE MATERIALS		
1	FBG00032	DP STRUCTURE TOTAL SET	SET	4709.16
2	FBG00010, FBG00018	POLE MOUNT ARGMT FOR 16/25KVADTR(CHANEL)	EA	2422.56
3	FBE00044	MOUNTING ARRANGEMENT FOR 1PH DTR	SET	669.06
		4) CONDUCTORS		
1	CDR00005	AAA CONDUCTOR 200 SQ. MM	KM	158801.28
2	CDR00004	AAA CONDUCTOR 100 SQ. MM	KM	102250.00
3	CDR00003	AAA CONDUCTOR 55 SQ. MM	KM	67000.00
4	CDR00002	AAA CONDUCTOR 34 SQ. MM	KM	36000.00
5	CDR00011	ACSR CONDUCTOR ZEBRA	KM	281783.28
6	CDR00010	ACSR CONDUCTOR PANTHER 200 Sq.mm	KM	250000.00
7	CDR00008	ACSR CONDUCTOR (30+7/3.00MM) 200 SQMM	KM	157169.76
8	CDR00006	ACSR CONDUCTOR 7/2.11	KM	15276.96
9	CDR00014	AL 59 CONDUCTOR 109 SQ MM	KM	56411.04
10	CDR00015	ACSR WOLF CONDUCTOR (30+7/2.59) 150 SqMM	KM	138270.00
		5) CABLES		
		5.A) 33 KV XLPE POWER CABLES		
1	CBX30001	33KV XLPE CABLE 3 CORE 400 SQ. MM	M	2472.34
2	CBX30004	33KV XLPE CABLE 3 CORE 300 SQ. MM	M	2081.43
		5.B) 11 KV XLPE POWER CABLES		
1	CBX10008	11KV XLPE CABLE 3 CORE 300 SQ. MM	M	1553.18
2	CBX10007	11KV XLPE CABLE 3 CORE 185 SQ. MM	M	1112.40
3	CBX10006	11KV XLPE CABLE 3 CORE 120 SQ. MM	M	852.84
4	CBX10005	11KV XLPE CABLE 3 CORE 95 SQ. MM	M	1057.99
5	CBX10002	11KV XLPE CABLE 3 CORE 35 SQ. MM	M	605.95
		5.C) 11 KV PLIC POWER CABLES		
1	CBX10001	11KV PLIC CABLE 3 CORE 35 SQ. MM	M	358.44
		5.D) LT PVC 1 CORE CABLES (XLPE)		
1	CBX00017	LT PVC CABLE 1 CORE 185 SQ. MM	M	182.00
2	CBX00009	LT PVC CABLE 1 CORE 150 SQ. MM	M	113.71
3	CBX00008	LT PVC CABLE 1 CORE 120 SQ. MM	M	181.00
4	CBX00007	LT PVC CABLE 1 CORE 95 SQ. MM	M	151.00
5	CBX00006	LT PVC CABLE 1 CORE 70 SQ. MM	M	55.62
6	CBX00005	LT PVC CABLE 1 CORE 50 SQ. MM	M	43.26
		5.E) LT XLPE 1 CORE CABLES		
1	CBX00002	LT XLPE CABLE 1 CORE 70 SQ. MM	M	74.00

SL NO	SAP Material code	Description of materials	UNIT	Rupees
		5.F) LT XLPE 3 1/2 CORE CABLES		
1	CBX00015	LT XLPE CABLE 3 1/2 CORE 185 SQ. MM	M	395.52
2	CBX00014	LT XLPE CABLE 3 1/2 CORE 120 SQ. MM	M	538.00
3	CBX00013	LT XLPE CABLE 3 1/2 CORE 95 SQ. MM	M	293.45
4	CBX00012	LT XLPE CABLE 3 1/2 CORE 70 SQ. MM	M	228.66
5	CBX00018	LT PVC AL CONTR CABLE 4 CORE 4 SQ. MM	M	31.20
		5.G) LT UNARMOURED 3 1/2 CORE CABLES		
1	CBP00019	LT PVC UNARMOURED 3.5 CORE CABLE 150sqmm	M	754.00
		5.H) LT CONTROL CABLES		
1	CBP00006	LT PVC CU CONTR CABLE 10 CORE 2.5 SQ. MM	M	307.00
2	CBP00002	LT PVC CU CONTR CABLE 4 CORE 2.5 SQ. MM	M	166.00
3	CBP00001	LT PVC CU CONTR CABLE 2 CORE 2.5 SQ. MM	M	76.00
4	CBX00018	LT PVC AL CONTR CABLE 4 CORE 4 SQ. MM	M	31.20
5	CBX00043	LT AB Cable XLPE 3C X 25+25 Sq. mm	KM	111000
		5.I) LT AERIAL BUNCHED CABLES		
1	CBA00003	LT AB CABLE 3 X 16 + 25 SQ. MM	M	64.92
2	CBA00002	LT AB CABLE 2 X 16 + 25 SQ. MM	M	55.87
3	CBA00001	LT AB CABLE 1 X 16 + 25 SQ. MM	M	30.90
		5.J) LT AERIAL BUNCHED CABLE FITTINGS		
1	HWR00012	HARDWARE FOR SUSPENSION CLAMPS(EYEHOOKS)	EA	210.12
2	SCB00058	LT CONNECTOR FOR AB CABLE WTH Insulation	EA	98.88
3	HWR00009	DEAD END CLAMPS WITH EYE HOOK	EA	135.96
		5.K) CABLE JOINTING KITS		
1	SCB00069	33KV 3X400 XLPE UG CABLE ST TH JOINT KIT	EA	54105.90
2	SCB00061	33KV XLPE CABLE JOINTING KIT 3X400SQMM	EA	12421.80
3	SCB00027	11KV HEAT SHRKABL JOIT.KIT FOR 3X300SQMM	EA	4619.05
4	SCB00055	11KV CABLE JOINTING KITS 3X185 SQ.MM	EA	3510.24
5	SCB00025	11KV CABLE JOINTING KIT 3X35SQMM OUTDOOR	EA	979.40
		6) POWER TRANSFORMERS, CAPACITORS AND TRASFORMER OIL		
1	PTR00018	33/11 KV 12.5MVA POWER TRANSFORMER	EA	10400387
2	PTR00009	33/11 KV 10MVA POWER TRANSFORMER	EA	11968091
3	PTR00008	33/11 KV 8MVA POWER TRANSFORMER	EA	10682658
4	PTR00006	33/11 KV 5MVA POWER TRANSFORMER	EA	8535294
5	PTR00005	33/11 KV 3.15MVA POWER TRANSFORMER	EA	3427428.00
6	CPT10013	11KV CAPACITOR BANK WITH VCB & ACCESSORIES	EA	1215896.46
7	OFO10009	TRANSFORMER OIL (with Drums)	L	121.00
		7) DISTRIBUTION TRANSFORMERS		
		7.A) 3PH DTRs		
1	DTC30009	3PH 315KVA DTR CRGO CSP	EA	1675000
2	DTA30013	3PH 315KVA DTR AMARPHOUS CSP	EA	1675000
3	DTC30011	3PH 250KVA DTR CRGO CSP	EA	605543
4	DTC30113	3PH 250KVA DTR CRGO CONVENTIONAL	EA	612961
5	DTA30007	3PH 160KVA DTR AMARPHOUS	EA	569700
6	DTC30127	3PH 160KVA DTR AMARPHOUS/CRGO CSP BEE 5* RATING	EA	569700
7	DTC30007	3PH 160KVA DTR CRGO CSP	EA	569700
8	DTC30118	3-PH 160 KVA DTR WITH BEE BEE 3* RATING	EA	569700
9	DTC30106	3PH 100KVA DTR CRGO CONVENTIONAL	EA	321799
10	DTA30006	3PH 100KVA DTR AMARPHOUS	EA	321799

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11	DTC30131	3PH 100KVA DTR AMARPHOUS/CRGO with 5 star	EA	321799
12	DTC30006	3PH 100KVA DTR CRGO CSP	EA	321799
13	DTC30116	3PH 100KVA DTR CRGO CONV BEE 3* RATING		201427
14	DTC30122	3PH 100KVA DTR CRGO CONV BEE 5* RATING	EA	321799
15	**DTC30005**	3PH 75 KVA DTR CRGO CSP	EA	358000
16	**DTC30105**	3PH 75 KVA DTR CRGO CONVENTIONAL	EA	358000
17	DTC30104	3PH 63 KVA DTR CRGO CONVENTIONAL	EA	254750
18	DTC30004	3PH 63 KVA DTR CRGO CSP	EA	254750
19	DTA30004	3PH 63 KVA DTR AMARPHOUS	EA	254750
20	DTC30129	3PH 63 KVA DTR AMARPHOUS CSP BEE 5* RATING	EA	254750
21	DTC30115	3PH 63 KVA DTR CRGO CONV BEE 3* RATING	EA	254750
22	DTC30003	3PH 50 KVA DTR CRGO CSP	EA	69010
23	DTC30103	3PH 50 KVA DTR CRGO CONVENTIONAL	EA	69010
24	DTC30111	3PH 40 KVA DTR CRGO CONV BEE 3* RATING	EA	168172
25	DTC30128	3PH 40 KVA DTR CRGO CONVL BEE 3* RATING	EA	168172
26	DTC30130	3PH 40 KVA DTR AMARPHOUS CONV BEE 5* RATING	EA	168172
27	DTC30102	3PH 25 KVA DTR CRGO CONVENTIONAL	EA	139999
28	DTC30116	3PH 25 KVA DTR CRGO CONV BEE 3* RATING	EA	139999
29	DTC30123	3PH 25 KVA DTR CRGO CONV BEE 5* RATING	EA	139999
30	DTC30002	3PH 25 KVA DTR CRGO CSP	EA	139999
31	DTC30101	3PH 16 KVA DTR CRGO CONV 3* RATING	EA	83602
32	DTC30001	3PH 16 KVA DTR CRGO CSP	EA	83602
33	DTC30132	3PH 16 KVA DTR CRGO/AMARPHOUS CONV 5* RATING (COPPER)	EA	83602
34	DTC30112	3PH 15 KVA DTR CRGO CONVENTIONAL	EA	44496
35	DTA30011	3PH 15 KVA DTR AMARPHOUS	EA	44496
36	DTC10001	1PH 5 KVA DTR CRGO CSP	EA	28967
37	DTC10101	1PH 5 KVA DTR CRGO CONVENTIONAL	EA	28967
38	DTC10002	1PH 10 KVA DTR CRGO CSP	EA	33001
39	DTC10103	1PH 10 KVA DTR 11KV/1.732 CRGO CONV	EA	33001
40	DTC10004	1PH 15 KVA DTR CRGO CSP	EA	45026
41	DTA10003	1PH 15 KVA DTR AMARPHOUS	EA	45026
42	DTC10104	1PH 15 KVA DTR CRGO CONVENTIONAL	EA	45026
43	DTC10107	1PH 16 KVA DTR CRGO/AMARPHOUS CSP	EA	120900
	8) SWITCH CONTROL AND PROTECTIVE GEAR			
		8.A) CIRCUIT BREAKERS AND RELAYS		
	BRK30001	33KV SF6 CIRCUIT BREAKER W/O PANEL	EA	432847.20
1	BRK30002	33KV FEEDER VCB WITH CT'S&CONTROL PANEL	EA	445560.00
2	BRK30016	33KV Feder VCB W/O CT's&with Contl Panel	EA	340412.94
3	BRK30017	33KV SF6 CIRCUIT BREAKER CONTROL PANEL	EA	254616.00
4	BRK30005	33KV VCB W/O CT'S&CONTROL PANEL(220V DC)	EA	248239.48
5	BRK30003	33KV VCB W/O CT'S&CONTROL PANEL(24V DC)	EA	330498.00
6	BRK30019	33KV FEEDER VCB Without CONTROL RELAY PANEL	EA	375300.00
7	BRK30020	33KV VCB WITH CT'S&CONTROL PANEL (24V)	EA	467205.66
8		33KV HV VCB WITH CRP(IEDs) and CT'S(PMA Type)	EA	755650.76
9	BRK10002	11KV FEEDER VCB WITH CT'S&CONTROL PANEL	EA	338059.99

SL NO	SAP Material code	Description of materials	UNIT	Rupees
	BRK10010	11KV LV CONTROL VCB WITH RELAY PANEL	EA	311138.78
10		11KV LV VCB WITH CRP(IEDs) and CT'S(PMA Type)	EA	820664.04
11		11KV Feeder VCB WITH CRP(IEDs) and CT'S(PMA Type)	EA	588653.62
12	BRK10004	11KV LV VCB with CTs and Control panels	EA	334251.48
13	BRK10011	11KV FEEDER CONTROL VCB WITH RELAY PANEL	EA	200075.03
		8.B) SWITCH GEAR ACCOSSIORIES		
1	BRK30014	33KV TWIN FEDR CONTL&RELY PANEL(220V DC)	EA	818625.00
2	BRK30013	33KV HV/LV RELAY PANEL	EA	101636.28
3	BRK30011	33KV CONTROL PANEL WITH ENERGY METER	EA	94195.56
4	BRK30010	33KV CONTROL PANEL WITHOUT ENERGY METER	EA	89115.60
5	BRK30012	33KV INDOOR CONTROL PANEL	EA	55459.32
6	BRK00002	11KV RING MAIN UNITS 5 WAY	EA	771264.00
7	BRK10006	11KV 220V RELAY CONTROL PANEL	EA	149185.20
8	BRK10012	11KV FEEDER CONTROL RELAY PANEL	EA	47956.80
9	BRK10008	ALARAM PANEL SUITABLE FOR 11KV	EA	35009.70
	9) CURRENT TRANSFORMERS			
		9.A) 33 KV CTs		
	ITR30031	33KV CT'S 200-100-50/1-1A	EA	22285.08
	ITR30032	33KV CT'S 200-100-50/5-5A	EA	21790.68
	ITR30034	33KV CT'S 400-200-100/1-1-1A	EA	43816.00
	ITR30035	33KV CT'S 400-200-100/1-1A	EA	35515.00
	ITR30036	33KV CT'S 400-200-100/5-5A	EA	21790.68
	ITR30037	33KV CT'S 200-100/ 1-1 A	EA	21790.68
	ITR30070	33KV METERING CT'S 100/1A Class 1.0	EA	21642.36
	ITR30071	33KV METERING CT'S 25/1A 0.2 CL	EA	19300.80
	ITR30072	33KV METERING CT'S 50/1A 0.2 CL	EA	24151.44
	ITR30073	33KV METERING CT'S 100/1A 0.5 CLASS	EA	21642.36
	ITR30074	33KV METERING CT'S 100/1A 0.2 CLASS	EA	22631.16
	ITR30075	33KV 1PH OUTDOOR CT RATIO 100-50/5-5A	EA	21642.36
	ITR30076	33KV CTs 200-100/1-1-1Amps	EA	19652.40
	ITR30077	33KV CTs - 150/1.1Amps	EA	18206.28
	ITR30078	33KV CTs 200/1A CLASS 0.2	EA	28069.56
	ITR30079	33 KV INDOOR EPOXY RESIN CAST CT	EA	28675.20
	ITR30080	33KV CTs 200/1A CLASS 0.2S ACCURACY	EA	24336.84
	ITR30101	33KV METRNG CT 50/1A CLASS 0.2S ACCURACY	EA	20274.00
	ITR30110	33KV METRNG CT 100/1A CLASS 0.2S ACCURACY	EA	19083.60
	ITR30104	33KV METRNG CT 150/1A CLASS 0.2S ACCURACY	EA	19083.60
	ITR30111	33KV METRNG CT 25/1A CLASS 0.2S ACCURACY	EA	20274.00
		9.B) 33 KV PTs		
	ITR30011	33KV 1PH P.T.S 100VA BURDEN CLASS 0.5	EA	20703.60
	ITR30012	33KV 1PH P.T.S 100VA BURDEN CLASS 0.2	EA	76780.00
	ITR30100	33KV 1PH 200VA PT class 1.00	EA	14214.00
	ITR30015	33KV 1PH P.T.S 110V, 10VA BURDEN	EA	31270.00

SL NO	SAP Material code	Description of materials	UNIT	Rupees
		9.C) 11 KV CTs		
	ITR10005	11 KV CT 200-100/1-1A (METERING CORE)	EA	10592.52
	ITR10006	11 KV CT 200-100/5-5A (METERING CORE)	EA	13756.68
	ITR00009	11 KV CTS -600-300/1.A	EA	18788.44
	ITR10010	11 KV CT 50-100/1A	EA	9838.56
	ITR10011	11 KV CT 600-300-150/1A	EA	11556.60
	ITR10012	11KV CT'S 50-100/5A	EA	9838.56
	ITR10050	11KV CT'S 100-50/5A	EA	8800.32
	ITR10051	11KV CT'S 200-100/5-5A	EA	10246.44
	ITR10052	11KV CT'S 200-100-50/5-5A	EA	13880.28
	ITR10053	11KV CT'S 400-200/1-1A	EA	14155.00
	ITR10055	11KV CT'S 400-200-100/1-1A	EA	22597.00
	ITR10056	11KV CT'S 400-200-100/5-5A	EA	16550.04
	ITR10057	11KV CT'S 600-300-150/1-1-0.5775A	EA	18239.65
	ITR10071	11KV POLYCRETE CT RATIO 200-100/1-1A	EA	9813.84
	ITR10072	11KV POLYCRETE CT RATIO 200-100/5-5A	EA	10592.52
	ITR10073	11KV CTs - 200 - 150 / 1.1A	EA	
		9.D) 11 KV PTs		
	ITR10020	11KV 3PH P.T.S	EA	19470.00
		9.E) 11 KV CTPT sets		
	ITR10032	11KV C.T.P.T. SET 75/5A	EA	76780.00
	ITR10029	11KV C.T.P.T. SET 60/5A	EA	76780.00
	ITR10028	11KV C.T.P.T. SET 40/5A	EA	83500.00
	ITR10026	11KV C.T.P.T. SET 20/5A	EA	80000.00
	ITR10025	11KV C.T.P.T. SET 10/5A	EA	87800.00
	ITR10083	11KV C.T.P.T. SET 5/5A	EA	38995.80
	ITR10035	11KV BOTH SIDE CABLE ENTRY INDOOR 10/5A	EA	42126.00
	ITR10036	11KV BOTH SIDE CABLE ENTRY INDOOR 20/5A	EA	95000.00
	ITR10037	11KV OD PL MOUNT CTPT 60/5A 80KA 0.5SEC	EA	37253.04
	ITR10075	11KV CTS OF RATIO 600-300/1-1-0.5775A	EA	18515.28
	ITR30102	11 KV, 20/5A NEUTRAL CURRENT TRANSFORMER	EA	57288.60
	ITR30103	11 KV/110V RESIDUAL VOLTAGE TRANSFORMER	EA	57288.60
	ITR40001	3PH 0-500V 30V VARRIAC	EA	22000.80
	ITR40002	CONSTANT VOLTAGE TRS. 150V 3A BHEL	EA	60000.00
		10) AB SWITCHES		
		10.A) 33 KV		
	ABS30010	33KV 800A CONV. AB SWITCH WITH S.C.I	EA	47760.00
	ABS30004	33KV 800A CONV. AB SWITCH WITH P.T.I	EA	33618.81
	ABS30007	33KV 800A ABSWITCH 100A FUSE TY WITH INS	EA	27315.60
	ABS30009	33KV 800A ABSWITCH 75A FUSE TY WITH INSL	EA	27315.60
	ABS30008	33KV 800A ABSWITCH 40A FUSE TY WITH INSL	EA	27463.92
	ABS30002	33KV 400A AB SWITCH WITH INSULATORS	EA	25844.76
		10.B) 11KV		
	ABS10015	11KV 800A CONV. AB SWITCH WITH P.T.I	EA	23999.01
	ABS10014	11KV 800A D/B AB SWITCH W/O INSULATORS	EA	15190.44
	ABS10008	11KV 400A CONV AB SWITCH WITH P.T.I	EA	14520.00
	ABS10007	11KV 400A CONV AB SWITCH W/O INSULATORS	EA	5524.92

SL NO	SAP Material code	Description of materials	UNIT	Rupees
	ABS10002	11KV 200A TT AB SWITCH WITH INSULATORS	EA	12331.00
	ABS10001	11KV 200A TT AB SWITCH W/O INSULATORS	EA	6699.12
	ABS10004	11KV 200A CONV AB SWITCH WITH P.T.I	EA	9013.00
	ABS10003	11KV 200A CONV AB SWITCH W/O INSULATORS	EA	4944.00
	11) LIGHTNING ARRESTORS			
	LAS00004	33KV LIGHTNING ARRESTORS STATION TYPE	EA	4472.20
	LAS00002	11KV LIGHTNING ARRESTORS STATION TYPE	EA	2977.00
	LAS00001	11KV LIGHTNING ARRESTORS LINE TYPE	EA	1473.00
	12) HG FUSE SET			
	HGF30000	33KV 3Ph HG FUSE SETs	EA	9534.40
	HGF10002	11KV 3 Ph HG FUSE SETS	EA	3708.00
	HGF10003	11KV 1Ph HG FUSE SET WITHOUT INSULATORS	EA	414.06
	HGF10004	11KV 1Ph HG FUSE SET WITH INSULATORS	EA	924.55
	HGF00003	LT HG FUSE SETS WITH OUT INSULATORS	EA	1273.08
	HGF00004	LT 3 Ph HG FUSE SETS	EA	2076.48
	HGF00008	LT 3PH HG FUSE SET WITH SCI	EA	1854.24
	HGF00006	LT 1-PH HG FUSE SET	EA	732.95
	HGF00007	FUSE BASE WITH THROWOUT SWITCH 200A,500V	EA	284.28
	HGF00010	SUPPORTING INSULATORS FIXING CHANNEL	EA	494.40
	13) BATTERIES & CHARGERS			
		13.A) BATTERIES		
	BAT00029	24V 40AH BATTERY WITH TRICKLE CHARGER	EA	45000.00
	BAT00025	24V 40AH BATTERY W/O CHARGER	EA	9056.00
	BAT00073	12V-180 AH Exide X press chgd battery	EA	15141.00
	BAT00064	12 V 150 AH BATTERY	EA	13756.68
	BAT00057	12V 130AH BATTERIES	EA	11729.64
	BAT00059	12V 100AH BATTERIES	EA	10011.60
	BAT00076	12V 100AH MAINTANANCE FREE BATTERY	EA	8689.08
	BAT00058	12V 99AH BATTERIES	EA	8157.60
	BAT00043	12V 88AH BATTERY	EA	7990.74
	BAT00051	12V 80AH MAINTENANCE FREE BATTERY	EA	7663.20
	BAT00016	12V 80AH LOW MAINT. LEAD ACID BATTERIES	EA	7385.10
	BAT00015	12V 80AH LEAD ACID BATTERIES	EA	7199.70
	BAT00074	DIN 43AH- 12 V EXIDE MAINT FREE BATTERY	EA	7131.72
	BAT00056	12V 42AH MAINTENANCE FREE BATTERIES	EA	7131.72
	BAT00010	12V 40AH MAINTENANCE FREE BATTERIES	EA	5067.60
	BAT00075	12V 35AH MAINTANANCE FREE BATTERY	EA	4585.56
	BAT00042	NS-40 12V.35AH BATTERIES	EA	4499.04
	BAT00050	12V 32AH BATTERY	EA	3794.52
	BAT00055	12V 26AH MAINTENANCE FREE BATTERIES	EA	3374.28

SL NO	SAP Material code	Description of materials	UNIT	Rupees
	BAT00068	12 V 22AH BATERY	EA	3065.28
	BAT00014	12V 7AH SMF BATTERY	EA	1019.70
	BAT00008	12V 21 PLATES CHARGED BATTERY	EA	9424.50
	BAT00005	12V 15 PLATES BATTERIES	EA	8584.02
	BAT00004	12V 13 PLATES BATTERIES	EA	7317.12
	BAT00045	MHD-1500 EXIDE CHARGER BATTERIES	EA	10950.96
	BAT00044	MHD-1300 EXIDE CHARGER BATTERIES	EA	10555.44
	BAT00046	MM D - 99 TYPE EXIDE BATTERY	EA	8145.24
	BAT00062	26 AH BATTERY & INTERCONNECTING TERMINAL	SET	9171.12
	BAT00040	BATTERIES STAND WITH ACCESSARIES	EA	339.90
		13.B) CHARGERS		
	BAT00077	24V 100AH DUAL BATTERY CHARGER (Max 10A)	EA	18014.70
	14) ENERGY METERS AND METERING EQUIPMENT			
		14.A) 220KV, 132 KV & 33KV HT TRIVECTOR METERS		
	MHT30015	HT TRIVECTOR 220KV/110V ELE METER 3 PH	EA	20208.60
	MHT30036	HT TRIMETER 220KV/110V/100/1A 3 ELEMENT	EA	20208.60
	MHT30043	HT TRIVECTOR 132KV/110V,100/1A RLY METER	EA	20208.60
	MHT30011	HT TRIV MTR 132KV/110V100/1A15M IP CL0.2	EA	20208.60
	MHT30052	HT TVR MTR 132KV/110V 200/1A 15MIP 0.2S	EA	20208.60
	MHT30013	HT TRIVECTOR 132KV/110V, 1A.METER"	EA	20208.60
	MHT30038	HT TRIVECTOR 132KV/110V,100/1A TRACTION	EA	20208.60
	MHT30019	HT TRVCTR MTR 33KV/110V 100/1A 30MI 0.2C	EA	19776.00
	MHT30004	HT TRIVECTOR 33KV/110V 100/1A METERS	EA	17205.12
	MHT30021	33KV/110V100/1A TVR MTR 15M IP 0.2CL	EA	17205.12
	MHT30048	HT TRIVECTOR METER 0.2 SPL CLASS (ABT)	EA	23150.28
	MHT30051	HT TRVCTR MTR 33KV/110V 100/1A 15MI 0.2C	EA	16859.04
	MTO10033	STATIC TRIMETER 33KV/110V/100/5A 30 MIN	EA	16846.68
	MHT30018	HTTRIVECTOR 33KV/110V 200/1A METER,0.2CL	EA	15363.48
	MHT30008	HTTRIVECTOR 33KV/110V200/1A MTR0.5C 30MI	EA	15079.20
	MHT30037	HT STATIC TRIVECT METER 33KV/110V/60/5A	EA	13472.40
	MHT30005	HT TRIVECTOR 33KV/110V 50/5A METERS	EA	6390.12
	MHT30049	HT TRIVECT.METER 33KV /110V &200/1A 0.5S	EA	5512.56
	MHT30050	HT TRIVECT.METER 33KV /110V & 50/1A 0.5S	EA	5512.56
	MHT30039	HT TRI 33KV/110V 20/1A 30Min CL 0.5 Metr	EA	5487.84
	MHT30009	HT TRVCTR MTR 33KV/110V 400/1A 30MI 0.2C	EA	5463.12
	MHT30047	HT STATIC TRIVEC.33KV/110V 200/5A 0.5 CL	EA	5463.12
	MHT30044	HT Trvctr Mtr 33KV/110V 400/1A 30MI 0.5C	EA	5042.88
	MTO10024	MI AMMETER 0.5A	EA	98.88
	MHT30057	132/110VHTTVR MT 100/1A(AMR TOD & ABT)	EA	80023.20
	MHT30060	132/110VHTTVR MT 50/1A(AMR TOD & ABT)	EA	80023.20
	MHT30062	132/110VHTTVR MT 200/1A(AMR TOD & ABT)	EA	80023.20
	MHT30058	33/110VHT TVR MT 50/1A(AMR TOD & ABT)	EA	80023.20
	MHT30061	33/110VHTTVR MT 25/1A(AMR TOD & ABT)	EA	80023.20
	MHT30064	33/110VHTTVR MT 200/1A(AMR TOD & ABT)	EA	80023.20

SL NO	SAP Material code	Description of materials	UNIT	Rupees
	MHT30065	33/110VHTTVR MT 100/1A(AMR TOD & ABT)	EA	80023.20
	MHT30059	11/110VHTTVR MT 100/1A(AMR TOD & ABT)	EA	80023.20
	MHT30066	11/110VHTTVR MT 25/1A(AMR TOD & ABT)	EA	80023.20
		14.B) 11KV HT TRIVECTOR METERS		
	MHT10012	HT TRIV MTR 11KV/110V 200/5A15M IP CL0.2	EA	5512.56
	MHT30041	HT TRIVECTOR 11KV/110V 200/5A METER	EA	5512.56
	MHT10042	HT TRIVECT.METER 11KV /110V &200/5A 0.5S	EA	5512.56
	MHT10025	HTTRIVECTOR 11KV/110V200/1A MTR0.2C 30MI	EA	5512.56
	MHT10019	HTTRIVECTOR 11KV/110V200/1A MTR0.5C 30MI	EA	5512.56
	MHT10043	HT TRIVECT.METER 11KV /110V &200/1A 0.5S	EA	5512.56
	MHT10010	HT TRIVECTOR 11KV/110V 100/5A METERS	EA	5512.56
	MHT30022	11KV/110V 4W -30Min Int 100/5A Meter	EA	5512.56
	MHT10036	HT TRIVECTOR METER CT RATIO 100/1A 30MIP	EA	5512.56
	MHT10009	HT TRIVECTOR 11KV/110V 75/5A METERS	EA	5512.56
	MHT10008	HT TRIVECTOR 11KV/110V 60/5A METERS	EA	5512.56
	MHT10007	HT TRIVECTOR 11KV/110V 50/5A METERS	EA	5512.56
	MHT10033	3P4W 11KV/110V HT Trvctr Mtr 40/5A15M 0.2C	EA	5512.56
	MHT10006	HT TRIV MTR 11KV/110V 40/5A 15M IP CL0.2	EA	5512.56
	MHT10005	HT TRIVEC 11KV/110V 20/5A METER CL 0.5	EA	5166.48
	MHT10026	HT TRIVECTOR 11KV/110V 20/5A ,ABB MAKE	EA	5166.48
	MHT10028	HT Trvctr Mtr 11KV/110V 20/5A 30MIP 0.5C	EA	5104.68
	MHT10030	HT TRIVECTOR METER 11KV/110V 20/5A	EA	5512.56
	MHT10041	HT TRIVECT.METER 11KV /110V & 20/5A 0.5S	EA	5512.56
	MHT10038	HT ST El'nic Mtr 11/110V 10/5A 0.5C	EA	5018.16
	MHT10024	HT TRIVECTOR METER WITH PP BOX 10/5A	EA	12730.80
	MHT10003	HT TRIVEC 11KV/110V 10/5A METERS CL 0.5	EA	5092.32
	MHT10040	HT TRIVECT.METER 11KV /110V & 10/5A 0.5S	EA	5512.56
	MHT30056	HTTVRMTR11KV/110V10/5A30MIP 0.5S(RAPDRP)	EA	6142.92
	MHT30023	HT STATIC TRIVECTOR METER Wth TTB 10/5A	EA	9245.28
	MHT30026	HT TRIVECTOR METER 3X11 KV/110V /10/5A	EA	5296.26
	MHT10023	HT METER BOXES	EA	4486.68
		14.C) LT METERS		
	MTO10023	LT TRIVECTOR METER	EA	3942.84
	MTE30001	3 PH 10-40A ELECTRONI METER WITH PP BOX	EA	2268.06
	MTE30014	3PH 10-40A ESE METER(STEP MOTOR)W/O PPBX	EA	1742.76
	MTE30011	3PH 10-40A CONT TY METER W/O PP BOX	EA	1137.12
	MTM30009	3 PH 5A ELE MECH METERS	EA	791.04
	MTM30012	3 PH 50A ELE MECH METERS	EA	791.04
	MTM10001	1 PH 2.5-10A ELE MECH METER	EA	1198.92
	MTM10003	1 PH 2.5-10A ELE MECHANICAL METER-SICK	EA	1198.92
	MTE10015	1PH 5-20A COUNTER TYPE METER WITH PP BOX	EA	420.24
	MTE10018	1PH 5-30A ELECTRO STATIC ENERGY METERS	EA	1137.12
	MTM10006	1 PH 5-20A ELE MECHANICAL METER	EA	902.28
	MTE10014	1 PH 5-20A ELE METER WITH PP BOX	EA	550.02

SL NO	SAP Material code	Description of materials	UNIT	Rupees
		14.D) CT OPERATED METERS		
	MCT30015	3PH 200/5A LTCT OPERATED ELE METER CL1.0	EA	9270.00
	MCT30020	3PH 4W LT/CT OPTD TRI MTR CLAS 1.00	EA	9270.00
	MCT30007	3PH 200/5A LT CT OPERTD TVR METER CL 0.5	EA	9270.00
	MCT30004	3PH 125/5A LT CT OPERTD TVR METER CL 0.5	EA	8652.00
	MCT30039	3PH4W200/5A LTCTOPTVR MTR CL0.5S(RAPDRP)	EA	8305.92
	MCT30014	3Ø 4W CT OPERATEDMETER WITH PPBOX 125/5A	EA	8794.14
	MCT30038	3P 4W CT OP ELTRI MT125/5A PPB 0.5S W CT	EA	8713.80
	MCT30016	3P 4W CT OP EL TRIV MTR 0.5 125/5A PP BX	EA	7174.98
	MCT30037	3P 4W CT OP EL TRIV MT 125/5A CL 0.5S	EA	8453.00
	MCT30011	3 PH LT CT OPERATED OBSOLETE METER	EA	1829.28
	MCT30012	3 PH LT MD INDICATORS OBSOLETE	EA	2193.90
	MCT30017	3Ph LT/CT OPERATED METERS /5 A Tested	EA	939.36
	MCT30030	ASSEMBLED CT METER BOX WITH LT CT 125/5A	EA	5092.32
	MCT30031	ASSEMBLED CT METER BOX WITH LT CT 100/5A	EA	5092.32
	MCT30029	ASSEMBLED CT METER BOX WITH LT CT 50/5A	EA	6839.00
	MCT30032	LTCT METER BOX W 1 CT METER&3 200/5A CTS	EA	6010.00
	MCT30028	LTCT METER BOX W 1 CT METER&3 125/5A CTS	EA	4054.08
	MCT30027	LTCT METER BOX W1LTCT METER&3 100/5A CTS	EA	3182.70
	MCT30026	LTCT METER BOX W1LTCT METER&3 50/5A CTS	EA	1668.60
	MCT30035	RIGGED UP 1PH SMC METER BOX LT CTs 50/5A	EA	1668.60
	MCT30022	CT OPERATD 11KV/110V 200/5A 4WIRE E.M	EA	739.00
	MCT30024	1PH 15/5A CT METER WITH BOX	EA	2051.76
		14.E) LT CURRENT TRANSFORMER		
	ITR00015	LT CT'S 200/5A FOR LT TRIVECTOR METERS	EA	457.32
	ITR00013	LT CT'S 200/5A	EA	457.32
	ITR00012	LT CT'S 125/5A	EA	494.40
	ITR00011	LT CT'S 100/5A	EA	642.72
	ITR00014	LT CT'S 50/5A	EA	648.90
		15) BOXES		
	BXS00041	HT METER BOX	EA	6250.00
	BXS00011	A TY(SPL) DIST. BOX WITH 200A,500V FUSE	EA	7500.00
	BXS00146	LT DISTR. BOX 3X2X1 ATYPE SPL.DIST.BOXES	EA	4202.40
	BXS00010	A TYPE BOX	EA	5666.00
	BXS00001	3 PHASE CT METER BOXES (EMPTY)	EA	2348.40
	BXS00172	3 PHASE SPECIAL TYPE METER BOXES	EA	636.54
	BXS00170	SMC 3 PHASE METER BOXES	EA	568.56
	BXS00147	LT METER BOX	EA	519.12
	BXS00171	SMC METER BOX FOR HOUSING 1-PH METER &CT	EA	457.32
	BXS00174	SMC DISTRIBUTION BOX	EA	14241.00
	BXS00179	LT DISTRIBUTION BOX WITH MCCB-63KVA	EN	33040.00
	BXS00180	LT DISTRIBUTION BOX WITH MCCB-100KVA	EN	34220.00
	BXS00181	D/C LT DISTRIBUTION BOX WITH MCCB-160KVA	EN	44840.00
	BXS00183	S-PH 16/25KVA LT DISTRIBUTION BOX MCCBS	EN	12185.00
		16) EARTHING MATERIALS		
	EMT00006	CI EARTH PIPE 80 MM DIA 2.5MTS LENGTH	EA	5257.00
	EMT00022	GI EARTH PIPE 40 MM 2.5 MTS LONG	EA	594.00
	EMT00018	GI EARTH FLAT 25 MM X 4 MM	KG	30.90
		17) OTHER MATERIALS		
	OTH00057	A.C. DISTRIBUTION PANELS	EA	35009.70
	OTH00126	DC ANNUNCIATION PANEL	EA	14832.00
	CAH00060	HAND HELD COMPUTER FOR SPOT BILLING	EA	15697.20
	OMT10030	CMRI WITH ACCESSORIES	EA	37945.20
	FBE00027	LT OPEN WIRING FUSE SET STRUCTURE	EA	902.28

SL NO	SAP Material code	Description of materials	UNIT	Rupees
Materials Procured by the Purchase wing				
SL NO	**SAP Material code**	**Description of materials**	**UNIT**	**Rupees**
1	BXS00011	A TY(SPL) DIST. BOX WITH 300A,500V FUSE	EA	7500.00
2	**BXS00041**	HT METER BOX	EA	6250.00
3	BXS00174	LT DISTRIBUTION BOX (SMC)	EA	14241.00
4	**CBP00001**	LT PVC CU CONTR CABLE 2 CORE 2.5 SQ. MM	M	75.52
5	**CBP00002**	LT PVC CU CONTR CABLE 4 CORE 2.5 SQ. MM	M	166.30
6	**CBP00006**	LT PVC CU CONTR CABLE 10 CORE 2.5 SQ. MM	M	306.80
7	**CBX00002**	LT XLPE CABLE 1 CORE 70 SQ. MM	M	73.99
8	CBX00003	LT XLPE Cable 1 Core 95 Sq. mm	M	100.06
9	CBX00013	LT XLPE CABLE 3 1/2 CORE 95 SQ. MM	M	293.45
10	**CBX00014**	LT XLPE CABLE 3 1/2 CORE 120 SQ. MM	M	538.42
11	**CBX00017**	LT PVC CABLE 1 CORE 185 SQ. MM	M	182.00
12	CBX00023	LT XLPE CABLE SINGLE CORE 120 SQMM	M	125.51
13	CBX00024	LT XLPE CABLE SINGLE CORE 150 SQMM	M	153.34
14	CBX00026	LT AB Cable XPLE 2C X 16+25 Sq. mm	M	81.89
15	CBX00027	LT AB Cable XPLE 3C X 16+25 Sq. mm	M	104.90
16	CBX10002	11KV XLPE CABLE 3 CORE 35 SQ. MM	M	605.95
17	CBX10005	11KV XLPE CABLE 3 CORE 95 SQ. MM	M	1057.99
18	CBX10006	11KV XLPE CABLE 3 CORE 120 SQ. MM	M	852.84
19	CBX10007	11KV XLPE CABLE 3 CORE 185 SQ. MM	M	1112.40
20	CBX10008	11KV XLPE CABLE 3 CORE 300 SQ. MM	M	1553.18
21	CBX30001	33KV XLPE CABLE 3 CORE 400 SQ. MM	M	2472.34
22	CBX30004	33KV XLPE CABLE 3 CORE 300 SQ. MM	M	2081.43
23	SCB00025	11KV CABLE JOINTING KIT 3X35SQMM OUTDOOR	EA	979.40
24	SSL00021	POLY CARBONATED SEAL BIT (WHITE)	EA	3.09
25	SSL00023	POLY CARBONATED SEAL BIT (BLUE)	EA	3.09
26	SSL00024	POLY CARBONATED SEAL BIT (RED)	EA	3.09
27	**BAT00025**	24V 40AH BATTERY W/O CHARGER	EA	9055.51
28	**BAT00029**	24V 40AH BATTERY WITH TRICKLE CHARGER	EA	45000.00
29	BRK10002	11KV 24V DC FEEDER VCBs WITH CONTROL & RELAY PANELS AND CURRENT TRANSFORMERS OF RATIO 400-200-100/1-1A	EA	338059.99
30	BRK10004	11KV LV Control VCBs with CRPs and CTs of ratio 600-300/1-1A	EA	357809.60
31	BRK30002	33KV FEEDER VCB WITH CT'S & CONTROL PANEL	EA	445560.00
32	BRK30020	33KV 24V DC PTR HV VCBS with differential protection with Control & Relay Panel and CTs of ratio 400-200-100/1-1-1A	EA	467205.66
33	CAH00252	AMR Modems	EA	3304.00
34	CPT10025	220.4 KVAR, 7.3KV Ins level 28/75 KV dielectric poly propylene film capacitor bank cell	EA	29524.19
35	CPT10027	440.7KVAR, 7.3KV Ins Level 28/75 Kv (P), Dielectric Polypropylene film (Film + Foil Design) Capacitor Bank Cells	EA	43576.00
36	CPT10045	150 KVAR Capacitor Bank Cells	EA	12649.60
37	CPT10047	110KVAR, 7.3KV Ins Level 28/75 Kv (P), Dielectric Polypropylene film (Film + Foil Design) Capacitor Bank Cells	EA	10578.70
38	CPT10048	11KV 2MVAR Capacitor Banks with Associated Equipments with auto switch mode	EA	1575000.00
39	EMT100011	EARTH DISCHARGING ROD 10'	EA	837.80
40	ITR10020	11KV Potential Transformers	EA	19470.00
41	ITR10025	11KV metering sets of class 0.2S accuracy 10/5A (Outdoor)	EA	87800.00
42	**ITR10026**	11KV metering sets of class 0.2S accuracy 20/5A (Outdoor)	EA	80000.00
43	ITR10028	11KV metering sets of class 0.2S accuracy 40/5A (Outdoor)	EA	83500.00
44	ITR10029	11KV metering sets of class 0.2S accuracy 60/5A (Outdoor)	EA	76780.00
45	ITR10032	11KV Metering sets of ratio 75/5A of 0.2S accuracy (Outdoor Type)	EA	76780.00

SL NO	SAP Material code	Description of materials	UNIT	Rupees
46	ITR10035	11KV Metering sets of ratio 10/5A of 0.2S accuracy (Indoor Type)	EA	42126.00
47	ITR10036	11KV Metering sets of ratio 20/5A of 0.2S accuracy (Indoor Type)	EA	95000.00
48	ITR10055	11KV CT'S 400-200-100/1-1A	EA	22597.00
49	ITR10080	11KV CT 100/1 A	EA	76780.00
50	ITR10112	11KV Metering sets of ratio 40/5A of 0.2S accuracy (Indoor Type)	EA	41000.00
51	ITR100114	11KV CT 600-300/1-1-1 A CL 0.2S	EA	26500.00
52	ITR30012	33KV 1PH PT 100VA BURDEN CLASS 0.2	EA	76780.00
53	ITR30015	33KV/110V Single Phase Potential Transformers of class 0.2 accuracy (10VA Burden)	EA	24800.00
54	ITR30034	33KV CT'S 400-200-100/1-1-1A	EA	37996.00
55	**ITR30035**	33KV CTs 400-200-100/1-1A	EA	35515.00
56	ITR30111	33KV CTs 25/1A	EA	20274.00
57	MCT30051	Three Phase LT CT Operated Electronic Trivector Meters class 0.5S 125/5A without CTs and PP Box	EA	2650.00
58	MCT30058	3P4WCT OP ELTRI MT 100/5A 0.5S WO CT,PPB	EA	3032.60
59	MCT30059	3P4WCT OP ELTRI MT 200/5A 0.5S WO CT,PPB	EA	3032.00
60	**MCT30061**	Three phase LT CT Operated Electronic Trivector Meters of class 0.5S with 4Nos. 125/5A CTs of class 0.5S with PP Box	EA	13098.00
61	MCT30062	Three Phase LT CT Operated Electronic Trivector Meters of class 0.5S 200/5A with CTs and PP Box	EA	7300.00
62	MHT30038	132KV/110V 100/1A, class 0.2S HT Trivector Meters	EA	20208.60
63	**MHT30103**	11KV/110V, 10/5A HT Trivector Meters	EA	7394.00
64	**MHT30104**	11KV/110V, 20/5A HT Trivector Meters	EA	7394.00
65	MHT30112	HTTVRMTR11KV/110V 40/5A 0.2S CLASS CAT-C	EA	5,200.00
66	MHT30113	HTTVRMTR11KV/110V 60/5A 0.2S CLASS CAT-C	EA	5,200.00
67	MHT30114	HTTVRMTR11KV/110V 75/5A 0.2S CLASS CAT-C	EA	5,200.00
68	MHT30105	HT TVR METER 33KV/110V, 50/1A ,0.2S CL	EA	6660.00
69	MHT30115	HTTVRMTR33KV/110V150/1A 0.2S CLASS CAT-C	EA	5,400.00
70	MHT30004	HT TRIVECTOR 33KV/110V 100/1A METERS	EA	17205.12
71	MHT30018	HTTRIVECTOR 33KV/110V 200/1A METER,0.2CL	EA	15363.48
72	MHT30107	HTTVR 11KV/110V,-/1A CL 0.2S Meter(DLMS)	EA	5400.00
73	MHT30108	HTTVR 11KV/110V,-/5A CL 0.2S Meter(DLMS)	EA	5200.00
74	MTO11041	HT TVR Meters of 11KV/110V,10/5A, 0.2 class accuracy MD Integration 30 MIN. IP (Category -C for services) with DLMS (BI Directional Solar Net Meter)	EA	8,190.00
75	MTO11046	HT TVR Meters of 11KV/110V,20/5A, 0.2 class accuracy MD Integration 30 MIN. IP (Category -C for services) with DLMS (BI Directional Solar Net Meter)	EA	9850.00
76	MTE10018	Single Phase (5-30A) Electronic LCD type Energy Meters with IrDA Physical Layer and Super Capacitor housed in P.P. Box	EA	790.00
77	MTE31004	Three Phase Electronic Energy Meters (5-30A) LCD type IrDA Port class of accuracy 1.0 with Pilfer Proof Box	EA	2,150.00
78	**MTO11042**	Three Phase Electronic Energy Meters (5-30A) LCD type IrDA Port class of accuracy 1.0 with Pilfer Proof Box Solar Net Meter	EA	3693.00

SL NO	SAP Material code	Description of materials	UNIT	Rupees
79	MTO11045	Single Phase Electronic Energy Meters (5-30A) LCD type IrDA Port class of accuracy 1.0 with Pilfer Proof Box Solar Net Meter	EA	1971.61
80	SBR00209	4 POLE IDMTL O/C RELAY (INST.TRIP) 1/5A	EA	31270.00
81	SBR30114	33KV POLE ASSEMBLY WTH VACUUM INTERUPTER	EA	75,420.00
82	SBR30002	33KV VACCUM INTRUPTER	EA	47,690.00
83	SBR00383	Retrofit Trickle Charger	EA	2360.00
84	SBR10084	11KV POLE ASSEMBLY WTH VACUUM INTERUPTER	EA	57698.26
85	SBR10004	11KV VACUUM INTERUPTER	EA	60381.00
86	SBR10113	RETROFIT MECHANISM FOR 11KV VCB	EA	63838.00
87	DTC10107	1PH 16 KVA COPPER WOUND CSP DTR	EA	120900.00
88	DTC10108	1PH 50 KVA COPPER WOUND DTR(EEL-3)	EA	148079.72
89	DTC10109	1PH 75 KVA COPPER WOUND CSP DTR(EEL-3)	EA	205594.39
90	DTC30008	3PH 250KVA DTR CRGO CSP	EA	612961.47
91	DTC30130	3PH 40 KVA DTR CU WOUND CONVENTIONAL	EA	168171.89
92	DTC30134	3-PH 500KVA DTR CRGO Conventional	EA	1666100.00
93	DTC30142	3PH 315 KVA DTR (EEL-3)	EA	1675000.01
94	DTC30144	3PH 1000KVA Conv CU Wound DTR (EEL-2)	EA	1702422.17
95	DTC30145	3Ph 100 KVA AL CSP ** EEL - III (BIS)DTR	EA	321799.14
96	DTC30122	3PH 100KVA AMORPHOUS AL CONV *****RATE	EA	321799.14
97	DTC30146	3Ph 25 KVA CRGO/Amor AL ** EEL III DTR	EA	139999.00
98	DTC30148	3Ph 160 KVA CRGO/Amor AL ** EEL III DTR	EA	569699.99
99	DTC30149	3Ph 25 KVA CRGO/Amor AL***** EEL III DTR	EA	139999.00
100	HGF00006	LT 1-PH HG FUSE SET	EA	732.95
101	HGF00008	LT 3PH HG FUSE SET WITH SCI	EA	1854.24
102	HGF00011	6.3KV 1-Ph HG Fuse Sets	EA	920.00
103	HGF10002	11KV 3 Ph HG FUSE SETS	EA	3708.00
104	HGF10008	11KV3Ph HG FuseSets with PolymerType Ins	EA	4871.00
105	OFO10009	TRANSFORMER OIL WITH DRUMS	L	121.00
106	PTR00006	33/11 KV 5MVA PTR	EA	8535294.00
107	PTR00008	33/11 KV 8MVA PTR	EA	10682658.00
108	PTR00009	33/11 KV 10MVA PTR	EA	11968091.00
109	PTR00018	33/11 KV 12.5MVA PTR	EA	10400387.17
110	SFU10041	T.C.FUSE WIRE 14SWG	KG	1475.00
111	SFU10042	T.C.FUSE WIRE 16SWG	KG	1475.00
112	SFU10043	T.C.FUSE WIRE 18SWG	KG	1475.00
113	SFU10044	T.C.FUSE WIRE 20SWG	KG	1475.00
114	SFU10047	T.C.FUSE WIRE 33SWG	KG	1682.00
115	STR00013	DPC ALUMINIUM WINDING WIRE 1.25MM	KG	389.40
116	STR00015	DPC ALUMINIUM WINDING WIRE 16 SWG (1.6MM)	KG	389.40
117	STR00628	S.E. Aluminium Winding wire 19 SWG	KG	448.40
118	STR00632	DPC Al.winding wire 1.32mm	KG	207.68
119	STR00633	DPC Al.winding wire 1.72mm	KG	207.68
120	STR00027	HT Brass bushing rods 12"	EA	118.00
121	STR00038	LV BRASS BUSHING RODS CON. TYPE	EA	143.62
122	STR00039	LV BRASS BUSHING RODS CSP TYPE	EA	118.00
123	STR00063	S.E.COPPER 22SWG(0.711MM)	KG	1498.60
124	STR00450	S.E.COPPER 25 SWG	KG	1498.60
125	STR00638	23SWG SE Copper Winding Wire	KG	1023.06
126	FBE00029	LT 1PH 3W Angle X-arm W CLAMP (200KG PL)	EA	484.53
127	FBE00007	LT 3 Ph 4Wire Cross Arm & clamp (200kg)	EA	654.00
128	FBE00008	LT 3 Ph. 5 Wire Cross Arms	EA	794.00
129	FBE10004	11KV M.S Channel Cross Arm(Tapping)75X40 suitable for 8Mtrs PSCC Poles	EA	1098.00
130	FBE10069	11KV tapping Channel cross arm with back clamp made out of M.S.Channel 75x40mm (ISMC) and M.S.Flat 50x6mm suitable for 9.1Mtrs PSCC Poles	EA	1500.00

SL NO	SAP Material code	Description of materials	UNIT	Rupees
131	FBE10003	11KV VCross Arms with Clamps 200kg	EA	1078.00
132	FBE10016	11KV V 'X' ARM(75X40) WITH CLAMP FOR 9.1	EA	1108.00
133	FBE10007	11KV Top Cleat with Clampsfor 8.0 Mt Pscc (200KG)pole	EA	431.00
134	FBE10021	11KV TOP CLEAT WITH CLAMPS FOR 9.1	EA	460.00
135	FBE00024	LT SIDE ARM WITH STUT FOR 9.1MTS POLES	EA	2300.00
136	FBE00025	11KV SIDE ARM WITH STUT FOR 9.1MTS POLES	EA	2000.00
137	FBE10010	11KV MS Stay Sets without BasePlate	EA	763.00
138	EMT00010	CI EARTH PIPE 50 MM DIA 2.0 MTS LENGTH	EA	2920.00
139	EMT00022	GI EARTH PIPE 40 MM 2.5 MTS LONG	EA	643.00
140	WRS00005	G.I. WIRE 4MM (NO.8)	MT	105000.00
141	WRS00006	GI STAYWIRE 7/3.15MM (10 SWG)	MT	105000.00
142	WRS00007	GI STAYWIRE 7/2.5MM (12 SWG)	MT	105000.00
143	FBE30003	33KV VCross Arms with Clamps	EA	2196000.00
144	FBE30006	33kV Top Fitting with clamps	EA	931000.00
145	MST00002	MS ANGLE 50X50X6	MT	79300.00
146	MST00003	MS ANGLE 65X65X6	MT	79300.00
147	MST00012	MS CHANNEL 100X50	MT	85400.00
148	MST00013	MS CHANNEL 75X40	MT	85400.00
149	MST00014	MS FLAT 50X6	MT	81540.00
150	MST00015	MS FLAT 75X8	MT	81120.00
151	BNT00024	MS BOLTS & NUTS 5/8" X 2.5"	MT	81770.00
152	**BNT00025**	MS BOLTS & NUTS 5/8" X 3"	MT	129.08
153	**BNT00026**	MS BOLTS & NUTS 5/8" X 4"	MT	128.43
154	BNT00028	MS BOLTS & NUTS 5/8" X 6"	MT	126810.00
155	BNT00030	MS BOLTS & NUTS 5/8" X 8"	MT	126810.00
156	FBE10059	11 KV FRP "V" Cross Arms with Top Hamper	EA	2295.10
157	FBE10060	11KV FRP "V""X"Arms with TopHamper(9.1M)	EA	2360.00
158	**ABS10002**	11KV 200A TT AB SWITCH WITH INSULATORS	Nos.	12331.00
159	ABS10004	11KV 200A CONV AB SWITCH WITH P.T.I	Nos.	9013.00
160	ABS10008	11KV 400A CONV AB SWITCH WITH P.T.I	Nos.	14520.00
161	ABS10015	11KV 800A CONV. AB SWITCH WITH P.T.I	Nos.	23999.01
162	ABS30010	33KV 800A CONV. AB SWITCH WITH S.C.I	Nos.	47760.00
163	CDR00002	AAA CONDUCTOR 34 SQ. MM	KM	36000.00
164	CDR00003	AAA CONDUCTOR 55 SQ. MM	KM	67000.00
165	CDR00004	AAA CONDUCTOR 100 SQ. MM	KM	102250.00
166	CDR00010	ACSR CONDUCTOR PANTHER 200 Sq.mm	KM	250000.00
167	CDR00022	157Sqmm AL-59 Conductor	KM	158270.00
168	HWR00002	11KV METAL PARTS(C&T)	Nos.	150.00
169	HWR00004	33KV METAL PARTS(B&S)	Nos.	350.00
170	HWR00015	LT GI PINS	Nos.	37.00
171	**HWR00016**	LT METAL PARTS	Nos.	59.60
172	**INS00001**	LT PIN INSULATORS	Nos.	40.50
173	**INS00002**	LT SHACKLES	Nos.	40.50
174	INS00003	LT GUY INSULATORS	Nos.	31.00
175	INS10003	11KV POLYMER INSULATORS (C&T)	Nos.	296.40
176	INS10005	11KV GUY INSULATORS (HT)	Nos.	80.00
177	INS10008	11KV POST TYPE INSULATORS	Nos.	322.51
178	INS10012	11KV Polymer Pin Insulators with GI pins	EA	380.07
179	INS30004	33KV 70KN COMPOSITE POLYMER INSULATOR	Nos.	650.00
180	INS30007	33KV POLYMER PIN INSULATOR WITH GI PIN	Nos.	882.07
181	INS30010	33KV Post type Insulators	Nos.	916.00
182	LAS00010	9KV,5KA Polymeric LAS(Line Type)	Nos.	749.30
183	LAS00011	9KV,10KA Polymeric LAS (Station Type)	Nos.	2000.00
184	LAS00012	30KV,10KA Polymeric LAS(Line Type)	Nos.	3000.00
185	LAS00013	30KV,10KA Polymeric LAS(Station Type)	Nos.	5000.00
186	SAB00002	ALLUMINUM BUSH FOR TT AB SWITCH	Nos.	50.00

SL NO	SAP Material code	Description of materials	UNIT	Rupees
187	**SAB10002**	11KV 200A CONV. AB SWITCH FIXED CONTACTS	Nos.	583.00
188	**SAB10003**	11KV 200A CONV. AB SWITCH MOVING CONTACT	Nos.	769.00
189	**SAB10005**	11KV 200A TT AB SWITCH FIXED CONTACTS	Nos.	402.84
190	**SAB10006**	11KV 200A TT AB SWITCH MOVING CONTACTS	Nos.	379.24
191	**SAB10008**	11KV 400A CONV. AB SWITCH FIXED CONTACTS	Nos.	685.00
192	**SAB10009**	11KV 400A CONV. AB SWITCH MOVING CONTACT	Nos.	1040.00
193	SAB10013	11KV BRASS FLEXIBLE JUMPER FOR TT A.B.S	Nos.	175.82
194	SAB10022	11KV 200A Conv.ABS Coper Flexible Jumper	Nos.	118.80
195	**SAB30012**	11KV 400A Conv.AB switch Flexible Jumper	Nos.	275.80
196	SSM00003	Pad Clamps for Dog Conductor	Nos.	227.74
197	SSM00004	Pad Clamps for Panther Conductor	Nos.	223.02
198	SSM00006	“T” Clamps for Panther to Panther Conductor	Nos.	224.20
199	SSM00007	“T” Clamps for Panther to Dog Conductor	Nos.	224.20

Abstract of schedule of rates for 2023-24 : Cost Data per Km of 33/11 KV/LT Lines

Sl. No	Particulars of items	Type of pole being used	No. of poles /KM	Span in Mtrs	Size of Conductor	Total Cost in Rs.	Page No
1	33KV line	12.5Mtr. Spun	18	60	100Sqmm AAA	1318177	16
2	33KV line (Double Circuit)	12.5Mtr. Spun	18	60	100Sqmm AAA	1881949	17
3	33KV line	11.0Mtr. Spun	18	60	100Sqmm AAA	1217248	18
4	33KV line	11.0Mtr. PSCC	18	60	100Sqmm AAA	775886	19
5	33 KV Line	9.1 Mtr. PSCC	19	60	100 Sqmm AAA	667558	20
6	33 KV Line	9.1 Mtr. PSCC	27	40	100 Sqmm AAA	705683	21
7	11 KV Line	11.0Mtr. PSCC	22	60	100 Sqmm AAA	824048	22
8	11 KV Line	11.0Mtr. PSCC	22	60	55 Sqmm AAA	757265	23
9	11 KV Line	9.1 Mtr. PSCC	27	40	100 Sqmm AAA	881224	24
10	11 KV Line	9.1 Mtr. PSCC	22	60	55 Sqmm AAA	638596	25
11	11 KV Line	9.1 Mtr. PSCC	22	50	55 Sqmm AAA	571812	26
12	11 KV Line	8.0 Mtr PSCC(200Kgs)	22	50	55 Sqmm AAA	533532	27
13	6.3 KV Line	9.1 Mtr. PSCC	21	50	55 Sqmm AAA	345663	28
14	6.3 KV Line	8.0 Mtr PSCC(200Kgs)	18	60	55 Sqmm AAA	302669	29
15	L.T. 3Ph 5 Wire Line(Horizontal)	9.1 Mtr PSCC (200Kgs)	20	50	5x55 Sqmm AAA	669727	30
16	L.T. 3Ph 5 Wire Line(Horizontal)	8.0 Mtr PSCC(200Kgs)	20	50	5x55 Sqmm AAA	611731	31
17	L.T. 3Ph 4 Wire Line(Horizontal)	9.1 Mtr PSCC(280Kgs)	20	50	4x55 Sqmm AAA	594153	32
18	L.T. 3Ph 4 Wire Line(Horizontal)	8.0 Mtr PSCC(200Kgs)	21	50	4x55 Sqmm AAA	531803	33
19	L.T. 1Ph 3 Wire Line(Horizontal)	8.0 Mtr PSCC(200Kgs)	20	50	3x55 Sqmm AAA	457719	34
20	L.T. 1Ph 2 Wire Line(Horizontal)	8.0 Mtr PSCC(200Kgs)	20	50	2x55 Sqmm AAA	370753	35
21	L.T. AB Cable	8.0 Mtr PSCC(200Kgs)	20	50	3x16+25 Sqmm	312923	36
22	L.T. AB Cable	8.0 Mtr PSCC(200Kgs)	20	50	2x16+25 Sqmm	290404	37
23	Erection of 1000KVA Distribution transformer					2199449	38
24	Erection of 500KVA Distribution transformer					1431885	39
25	Erection of 315KVA Distribution transformer					1118655	40
26	Erection of 250KVA Distribution transformer					861021	41
27	Erection of 160KVA Distribution transformer					474135	42
28	Erection of 100KVA Distribution transformer					407022	43
29	Erection of 63KVA Distribution transformer					332613	44
30	Erection of 40KVA Distribution transformer					286585	45
31	Erection of 25KVA Distribution transformer					185720	46
32	Erection of 16KVA Distribution transformer					164017	47
33	Erection of 100KVA Distribution transformer					362642	48
34	Erection of 16 KVA Single Phase 6.3 KV/0-240V CSP OIL IMMERSED transformer					116630	49
35	Erection of 16 KVA CU Single Phase 6.3 KV/0-240V CSP OIL IMMERSED transformer					140309	50
36	Erection of 25 KVA Single Phase 6.3 KV/0-240V CSP OIL IMMERSED transformer					134595	51
37	Erection of 50 KVA Single Phase 6.3 KV/0-240V CSP OIL IMMERSED transformer					230692	52
38	Erection of 75 KVA Single Phase 6.3 KV/0-240V CSP OIL IMMERSED transformer					298874	53
39	Fixing of 1 Ph meter					3823	54
40	Fixing of 1 Ph meter					4351	55
41	Fixing of 3 Ph meter					7612	56
42	Fixing of class 0.5 3 Ph CT operated meter					14081	57
43	Erection of 33/11 K.V. Substation with 1x5MVA power transformer & 3 Nos. 11kv feeders (with 11 kv 2 MVAR Capacitor Bank)					15277200	58
44	Erection of 33/11 K.V. Substation with 1x5MVA power transformer & 2 Nos. 11kv feeders (without 11 kv 2 MVAR Capacitor Bank)					12368100	59
45	Erection of 33/11 K.V. Substation with 1x5MVA power transformer & 3 Nos. 11kv feeders (without 11 kv 2 MVAR Capacitor Bank)					12873700	60
46	Erection of 33/11 K.V. Substation with 1x5MVA power transformer & 4 Nos. 11kv feeders (without 11 kv 2 MVAR Capacitor Bank)					13706400	61
47	Erection of 11KV Bay extension along with VCB in existing 33/11KV Sub-Station with RS Joists					557291	62
48	Erection of 33KV Bay extension in existing 33/11KV Sub-Station					191782	63
49	Erection of 5.0MVA Addl. PTR with 33KV Bay extension					7850552	64
50	Erection of 8.0MVA Addl. PTR with 33KV Bay extension					9511551	65
51	Erection of 10.0MVA Addl. PTR with 33KV Bay extension					12069646	66
52	Erection of 12.5 MVA Addl. PTR with 33KV Bay extension					13766959	67

Cost data per KM of 33 KV line (Single Circuit) with 100 Sq.mm AAA Conductor over 12.5 Mt Spun Pole at 60 Mt Span 100 Kg /Sq .Mt wind pressur, working load 350 Kgs.

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	12.5M Spun Pole	18	18400	Each	331200
2	9.1M PSCC Poles for Struts	8	4910	Each	39280
3	33KV 1.53M V-Cross Arm (Channel) with clamps	16	2196	Each	35136
4	33KV Top Clamp with cleat	16	931	Each	14896
5	33KV Tapping Channel Cross Arms	3	3001	Each	9003
6	Bracing Set with double cross arm along with Fish	1	8543.26	Each	8543.26
7	MS Back Clamps for Spun poles	19	250	Each	4750
8	MS Stay clamp for Spun poles	8	431	Each	3448
9	100 Sq.mm AAA Conductor	3.06	102250	Each	312885
10	33 KV Pin - Insulator (Polymer) with GI Pin	48	882.07	Each	42339.36
11	33 KV Strain Insulator set with metal parts	12	1000	Each	12000
12	33 KV String Insulator Fittings, Concreting of 3 Pole 8 struts , Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc.	LS		LS	40000
	TOTAL				**853481**
	15% stores overhead charges on items (1) to (11)		813481		122022
	5 % Contingencies				42674
	Services	LS			250000
	Works overhead @ 15% on Services				37500
	Contingencies @ 5% on Service cost				12500
	TOTAL ESTIMATE COST				**1318177**

Cost data per KM of 33 KV line (Double Circuit) with 100 Sq.mm AAA Conductor over 12.5 Mt Spun Pole at 60 Mt Span 100 Kg /Sq .Mt wind pressur, working load 350 Kgs.

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	12.5M Spun Pole	18	18400	Each	331200
2	9.1M PSCC Poles for Struts	8	4910	Each	39280
3	33KV 1.53M V-Cross Arm (Channel) with clamps	45	2196	Each	98820
4	33KV Tapping Channel Cross Arms	12	2000	Each	24000
5	Bracing Set with double cross arm along with Fish	3	8543.26	Each	25629.78
6	MS Back Clamps for Spun poles	12	250	Each	3000
7	MS Stay clamp for Strut poles	8	432	Each	3456
8	MS Stay clamp for Spun poles	8	432		3456
9	100 Sq.mm AAA Conductor	6.12	102250	Each	625770
10	33 KV Pin - Insulator (Polymer) with GI Pin	96	882.07	Each	84678.72
11	33 KV Strain Insulator set with metal parts	24	1000	Each	24000
12	33 KV String Insulator Fittings, Concreting of 3 Pole 8 struts , Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc.	LS		LS	40000
	TOTAL				**1303291**
	15% stores overhead charges on items (1) to (11)		1263291		189494
	5 % Contingencies				65165
	Services	LS			270000
	Works overhead @ 15% on Services				40500
	Contingencies @ 5% on Service cost				13500
	TOTAL ESTIMATE COST				**1881949**

Cost data per KM of 33 KV line (Single Circuit) with 100 Sq.mm AAA Conductor over 11.0 Mt Spun Pole at 60 Mt Span 100 Kg /Sq .Mt wind pressur, working load 350 Kgs.

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	11M Spun Pole	18	16900	Each	304200
2	9.1M PSCC Poles for Struts	4	4910	Each	19640
3	33KV 1.53M V-Cross Arm (Channel) with clamps	16	2196	Each	35136
4	33KV Top Clamp with cleat	16	931	Each	14896
5	33KV Tapping Channel Cross Arms	2	1231	Each	2462
6	Bracing Set with double cross arm along with Fish	1	8507.56	Each	8507.56
7	MS Back Clamps for Spun poles	3	250	Each	750
8	MS Stay sets Complete with base plate	2	1200	Each	2400
9	MS Stay clamp for Strut poles	8	432	Each	3456
10	MS Stay clamp for Spun poles	8	432	Each	3456
11	100 Sq.mm AAA Conductor	3.06	102250	Each	312885
12	33 KV Pin - Insulator (Polymer) with GI Pin	48	882.07	Each	42339.36
13	33 KV Strain Insulator set with metal parts	12	1000	Each	12000
14	33 KV String Insulator Fittings Concreting of 3 Poles, 4 strut, & 4 stay sets of Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc.	LS		LS	30000
	TOTAL				**792128**
	15% stores overhead charges on items (1) to (13)		762128		114319
	5 % Contingencies				39606
	Services	LS			225995
	Works overhead @ 15% on Services				33899
	Contingencies @ 5% on Service cost				11300
	TOTAL ESTIMATE COST				**1217248**

Cost data per KM of 33 KV line (Single Circuit) with 100 Sq.mm AAA Conductor over 11.0 Mt Pscc Pole at 60 Mt Span 100 Kg /Sq .Mt wind pressur, working load 350 Kgs.

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	11 M PSCC Pole	18	8500	Each	153000
2	9.1M PSCC Poles for Struts	8	4910	Each	39280
3	33KV 1.53M V-Cross Arm (Channel) with clamps	16	2196	Each	35136
4	33KV Top Clamp with cleat	16	931	Each	14896
5	33KV Tapping Channel Cross Arms	2	2000	Each	4000
6	Bracing Set with double cross arm along with Fish	1	8543.26	Each	8543.26
7	MS Stay clamp for Strut poles	8	432	Each	3456
8	100 Sq.mm AAA Conductor	3.06	102250	Each	312885
9	33 KV Pin - Insulator (Polymer) with GI Pin	48	882.07	Each	42339.36
10	33 KV Strain Insulator set with metal parts	12	1000	Each	12000
11	33 KV String Insulator Fittings, Concreting of 3 Pole 8 struts , Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc.	LS		LS	40000
	TOTAL				**665536**
	15% stores overhead charges on items (1) to (10)		625536		93830
	5 % Contingencies				33277
	Services	LS			215000
	Works overhead @ 15% on Services				32250
	Contingencies @ 5% on Service cost				10750
	TOTAL ESTIMATE COST				**1050643**

Cost data per KM of 33 KV line (Single Circuit) with 100 Sq.mm AAA Conductor over 9.1 Mt Pscc Pole at 50 Mt Span 75 Kg /Sq .Mt wind pressur, working load 350 Kgs.

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	9.1 M PSCC Pole	21	4910	Each	103110
2	8.0M PSCC Poles for Struts	8	3450	Each	27600
3	33KV 1.53M V-Cross Arm (Channel) with clamps	20	2196	Each	43920
4	33KV Top Clamp with cleat	20	931	Each	18620
5	33KV Tapping Channel Cross Arms	2	2000	Each	4000
6	Bracing Set with double cross arm along with Fish	1	8543.26	Each	8543.26
9	MS Stay clamp for Strut poles	8	432	Each	3456
10	100 Sq.mm AAA Conductor	3.06	102250	Each	312885
11	33 KV Pin - Insulator (Polymer) with GI Pin	48	822.07	Each	39459.36
12	33 KV Strain Insulator set with metal parts	12	1000	Each	12000
13	33 KV String Insulator Fittings Concreting of 3 Poles, 8 strut of Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc.	LS		LS	40000
	TOTAL				**613594**
	15% stores overhead charges on items (1) to (12)		573594		86039
	5 % Contingencies				30680
	Services	LS			120000
	Works overhead @ 15% on Services				18000
	Contingencies @ 5% on Service cost				6000
	TOTAL ESTIMATE COST				**874312**

Cost data per KM of 33 KV line (Single Circuit) with 100 Sq.mm AAA Conductor over 9.1 Mt Pscc Pole at 40 Mt Span 75 Kg /Sq .Mt wind pressur, working load 350 Kgs. In Urban Area

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	9.1 M PSCC Pole	26	4910	Each	127660
2	8.0M PSCC Poles for Struts	8	3450	Each	27600
3	33KV 1.53M V-Cross Arm (Channel) with clamps	24	2196	Each	52704
4	33KV Top Clamp with cleat	24	931	Each	22344
5	33KV Tapping Channel Cross Arms	2	1231	Each	2462
6	Bracing Set with double cross arm along with Fish	1	8507.56	Each	8507.56
7	MS Stay clamp for Strut poles	8	432	Each	3456
8	100 Sq.mm AAA Conductor	3.06	102250	Each	312885
9	33 KV Pin - Insulator (Polymer) with GI Pin	48	822.07	Each	39459.36
10	33 KVStrain Insulator set with metal parts	12	1000	Each	12000
11	33 KV String Insulator Fittings Concreting of 3 Poles, 4 strut & 4 stays Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc.	LS		LS	40000
	TOTAL				**649078**
	15% stores overhead charges on items (1) to (10)		609078		91362
	5 % Contingencies				32454
	Services	LS			135000
	Works overhead @ 15% on Services				20250
	Contingencies @ 5% on Service cost				6750
	TOTAL ESTIMATE COST				**934894**

Cost data per KM of 11 KV line (Single Circuit) with 100 Sq.mm AAA Conductor over 11.0 Mt Pscc Pole at 60 Mt Span 75 Kg /Sq .Mt wind pressur, working load 350 Kgs.

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	11 M PSCC Pole	17	8500	Each	144500
2	9.1M PSCC Poles for Struts	8	4910	Each	39280
3	11KV V-Cross Arm /Channel without clamps	16	1098	Each	17568
4	11KV Top Clamp with cleat	16	431	Each	6896
5	11KV Tapping Channel Cross Arms Bracing Set with double cross arm along with Fish	1	5897	Each	5897
6	MS Back Clamps for 11M PSCC poles	17	119.89	Each	2038
7	MS Stay clamp for Strut poles	8	250	set	2000
8	100 Sq.mm AAA Conductor	3.06	102250	Each	312885
9	11 KV Polymer Pin - Insulator with GI Pin	42	380	Each	15960
10	11 KV Strain Insulator set with metal parts	12	446	Each	5352
11	11 KV String Insulator Fittings Concreting of 3 Poles, 8 strutpoles Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc.	LS		LS	47500
	TOTAL				**599877**
	15% stores overhead charges on items (1) to (10)		552377		82856
	5 % Contingencies				29994
	Services	LS			170000
	Works overhead @ 15% on Services				25500
	Contingencies @ 5% on Service cost				8500
	TOTAL ESTIMATE COST				**916727**

Cost data per KM of 11 KV line (Single Circuit) with 55 Sq.mm AAA Conductor over 11.0 Mt Pscc Pole at 50 Mt Span 75 Kg /Sq .Mt wind pressur, working load 350 Kgs.

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	11 M PSCC Pole	21	7600.00	Each	159600
2	9.1M PSCC Poles for Struts	8	4910.00	Each	39280
3	11KV V-Cross Arm /Channel without clamps	19	1098.00	Each	20862
4	11KV Top Clamp with cleat	19	431.00	Each	8189
5	11KV Tapping Channel Cross Arms Bracing Set with double cross arm along with Fish	1	5897.00	Each	5897
6	MS Back Clamps for 11M PSCC poles	21	119.89	Each	2518
7	MS Stay sets Complete with base plate	8	763.00	Each	6104
8	MS Stay clamp for Stut poles	8	250.00	Each	2000
9	55 Sq.mm AAA Conductor	3.06	67000.00	Each	205020
10	11 KV Polymer Pin - Insulator with GI Pin	60	380.07	Each	22804
11	11 KV Strain Insulator set with metal parts	12	446.04	Each	5352
12	11 KV String Insulator Fittings Concreting of 3 Poles, 8 strutpoles and Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc.	LS		LS	40000
	TOTAL				**517626**
	15% stores overhead charges on items (1) to (12)		477626		71644
	5 % Contingencies				25881
	Services	LS			185000
	Works overhead @ 15% on Services				27750
	Contingencies @ 5% on Service cost				9250
	TOTAL ESTIMATE COST				**837152**

Cost data per KM of 11 KV line (Single Circuit) with 100 Sq.mm AAA Conductor over 11 Mt Pscc Pole at 40 Mt Span 75 Kg /Sq .Mt wind pressur, working load 350 Kgs.

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	11 M PSCC Pole	26	8500.00	Each	221000
2	9.1M PSCC Poles for Struts	8	4910.00	Each	39280
3	11KV V-Cross Arm /Channel without clamps	24	1098.00	Each	26352
4	11KV Top Clamp with cleat	24	431.00	Each	10344
5	11KV Tapping Channel Cross Arms Bracing Set with double cross arm along with Fish	3	5897.00	Each	17691
6	MS Back Clamps for 11M PSCC poles	27	119.89	Each	3237
8	MS Stay clamp for Stut poles	8	250.00	Each	2000
9	100 Sq.mm AAA Conductor	3.06	102250	Each	312885
10	11 KV Polymer Pin - Insulator with GI Pin	60	380.00	Each	22800
11	11 KV Strain Insulator set with metal parts	12	446.00	Each	5352
12	11 KV String Insulator Fittings Concreting of 3 Poles, 8 strutpoles and 8 staysets. Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc.	LS		LS	47500
	TOTAL				**708441**
	15% stores overhead charges on items (1) to (12)		660941		99141
	5 % Contingencies				35422
	Services	LS			200000
	Works overhead @ 15% on Services				30000
	Contingencies @ 5% on Service cost				10000
	TOTAL ESTIMATE COST				**1083004**

Cost data per KM of 11 KV line (Single Circuit) with 55 Sq.mm AAA Conductor over 9.1 Mt Pscc Pole at 60 Mt Span 75 Kg /Sq .Mt wind pressur, working load 280 Kgs.

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	9.1 M PSCC Pole	17	4910.00	Each	83470
2	8 M PSCC Poles for Struts	8	3450.00	Each	27600
3	11KV V-Cross Arm /Channel without clamps	16	789.34	Each	12629
4	11KV Top Clamp with cleat	16	318.84	Each	5101
5	11KV Tapping Channel Cross Arms Bracing Set with double cross arm along with Fish	1	4523.00	Each	4523
6	MS Back Clamps for 9.1M PSCC poles	16	100.00	Each	1600
8	MS Stay clamp for Stut poles	8	115.51	Each	924
9	55 Sq.mm AAA Conductor	3	67000	Each	205020
10	11 KV Polymer Pin - Insulator with GI Pin	60	380.00	Each	22800
11	11 KV Strain Insulator set with metal parts	12	446.00	Each	5352
12	11 KV String Insulator Fittings Concreting of 3 Poles, 4 strut and 4 stays, Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc.	LS		LS	30000
	TOTAL				**399020**
	15% stores overhead charges on items (1) to (11)		369020		55353
	5 % Contingencies				19951
	Services	LS			103558
	Works overhead @ 15% on Services				15534
	Contingencies @ 5% on Service cost				5178
	TOTAL ESTIMATE COST				**598594**

Cost data per KM of 11 KV line (Single Circuit) with 55 Sq.mm AAA Conductor over 9.1 Mt Pscc Pole at 50 Mt Span 75 Kg /Sq .Mt wind pressur, working load 280 Kgs.

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	9.1 M PSCC Pole	22	4910.00	Each	108020
2	8 M PSCC Poles for Struts	4	3450.00	Each	13800
3	11KV V-Cross Arm /Channel without clamps	20	789.34	Each	15787
4	11KV Top Clamp with cleat	20	318.84	Each	6377
5	11KV Tapping Channel Cross Arms Bracing Set with double cross arm along with Fish	3	4523.00	Each	13569
6	MS Back Clamps for 9.1M PSCC poles	23	100.00	Each	2300
7	MS Stay sets Complete with base plate	4	763.00	Each	3052
8	MS Stay clamp for Strut poles	8	173.00	Each	1384
9	55 Sq.mm AAA Conductor	3	67000	Each	205020
10	11 KV Polymer Pin - Insulator with GI Pin	60	385.00	Each	23100
11	11 KV Strain Insulator set with metal parts	12	446.00	Each	5352
12	11 KV String Insulator Fittings Concreting of 3 Poles, 4 strut and 4 stays, Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc.	LS		LS	30000
	TOTAL				**427761**
	15% stores overhead charges on items (1) to (11)		397761		59664
	5 % Contingencies				21388
	Services	LS			103558
	Works overhead @ 15% on Services				15534
	Contingencies @ 5% on Service cost				5178
	TOTAL ESTIMATE COST				**633082**

Cost data per KM of 11 KV line (Single Circuit) with 55 Sq.mm AAA Conductor over 8.0 Mt Pscc Pole at 50 Mt Span 75 Kg /Sq .Mt wind pressur, working load 280 Kgs.

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	8.0 M PSCC Pole	22	3450.00	Each	75900
2	8 M PSCC Poles for Struts	4	3450.00	Each	13800
3	11KV V-Cross Arm /Channel without clamps	20	789.34	Each	15787
4	11KV Top Clamp with cleat	20	318.84	Each	6377
5	11KV Tapping Channel Cross Arms Bracing Set with double cross arm along with Fish	3	4523.00	Each	13569
6	MS Back Clamps for 9.1M PSCC poles	23	100.00	Each	2300
7	MS Stay sets Complete with base plate	4	576.35	Each	2305
8	MS Stay clamp for Strut poles	8	115.51	Each	924
9	55 Sq.mm AAA Conductor	3	67000	Each	205020
10	11 KV Polymer Pin - Insulator with GI Pin	60	385.00	Each	23100
11	11 KV Strain Insulator set with metal parts	12	446.00	Each	5352
12	11 KV String Insulator Fittings Concreting of 3 Poles, 4 strut and 4 stays, Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc.	LS		LS	30000
	TOTAL				**394434**
	15% stores overhead charges on items (1) to (11)		364434		54665
	5 % Contingencies				19722
	Services	LS			103558
	Works overhead @ 15% on Services				15534
	Contingencies @ 5% on Service cost				5178
	TOTAL ESTIMATE COST				**593090**

Cost data per KM of 6.3 KV line with 55 Sq.mm AAA Conductor over 9.1 Mt Pscc Pole at 60 Mt Span 75 Kg /Sq .Mt wind pressur, working load 280 Kgs.

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	9.1 M PSCC Pole	20	4910.00	Each	98200
2	8 M PSCC Poles for Struts	4	3450.00	Each	13800
3	11KV V-Cross Arm /Channel without clamps	0	789.34	Each	0
4	11KV Top Clamp with cleat	20	318.84	Each	6377
5	11KV Tapping Channel Cross Arms Bracing Set with double cross arm along with Fish	0	4523.00	Each	0
6	MS Back Clamps for 9.1M PSCC poles	20	100.00	Each	2000
7	MS Stay sets Complete with base plate	4	576.35	Each	2305
8	MS Stay clamp for Strut poles	4	115.51	Each	462
9	55 Sq.mm AAA Conductor	1	67000	Each	67670
10	11 KV Polymer Pin - Insulator with GI Pin	20	385.00	Each	7700
11	11 KV Strain Insulator set with metal parts	4	446.00	Each	1784
12	11 KV String Insulator Fittings Concreting of 3 Poles, 4 strut and 4 stays Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc.	LS		LS	30000
	TOTAL				**230298**
	15% stores overhead charges on items (1) to (11)		200298		30045
	5 % Contingencies				11515
	Services	LS			81530
	Works overhead @ 15% on Services				12230
	Contingencies @ 5% on Service cost				4077
	TOTAL ESTIMATE COST				**369694**

Cost data per KM of 6.3 KV line with 55 Sq.mm AAA Conductor over 8.0 Mt Pscc Pole at 60 Mt Span

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	8.0 M PSCC Pole	20	3450.00	Each	69000
2	8.0 M PSCC Poles for Struts	4	3450.00	Each	13800
3	11KV V-Cross Arm /Channel without clamps	0	789.34	Each	0
4	11KV Top Clamp with cleat	20	318.84	Each	6377
5	11KV Tapping Channel Cross Arms Bracing Set with double cross arm along with Fish	0	4523.00	Each	0
6	MS Back Clamps for 8.0M PSCC poles	20	100.00	Each	2000
7	MS Stay sets Complete with base plate	4	576.35	Each	2305
8	MS Stay clamp for Stut poles	4	115.51	Each	462
9	55 Sq.mm AAA Conductor	1	67000.00	Each	69010
10	11 KV Polymer Pin - Insulator with GI Pin	20	385.00	Each	7700
11	11 KV Strain Insulator set with metal parts	4	446.00	Each	1784
12	11 KV String Insulator Fittings Concreting of 3 Poles, 4 strut and 4 stays Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc.	LS		LS	30000
	TOTAL				**202438**
	15% stores overhead charges on items (1) to (11)		172438		25866
	5 % Contingencies				10122
	Services	LS			73540
	Works overhead @ 15% on Services				11031
	Contingencies @ 5% on Service cost				3677
	TOTAL ESTIMATE COST				**326674**

Cost data per KM of LT I-Ph 2 wire Line (Horizontal formation) with 2x55 Sq.mm AAA Conductor over

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	8 M PSCC Pole 200Kgs	20	3450.00	Each	69000
2	8 M PSCC Pole 200Kgs (Struts)	2	3450.00	Each	6900
3	L.T. 1 Phase 3W cross arms with BC	25	550.00	Each	13750
5	MS Stay sets Complete with base plate	4	576.35	Each	2305
6	55 Sq.mm AAA Conductor	2	67000.00	Each	136680
7	LT Shakle Insulator	4	30.00	Each	120
8	LT Metal Parts for Shackles	4	48.00	Each	192
9	MS Stay clamp for Strut poles	4	161.00	Each	644
10	L.T.pin insulator	14	31.00	Each	446
11	L.T. GI pin	37	37.00	Each	1355
12	C.I. Knob	20	11.01	Each	220
13	Concreting of Pole & Base concreting	7	3012.00	Each	21084
14	Concreting of Stay sets	4	1530.00	Each	6120
15	Misc. Items like coil earthing, pipe earthing, danger boards, bolts & nuts, etc.	LS	4000.00	LS	4000
	TOTAL				**262817**
	15% stores overhead charges on items (1) to (12)		204609		30691
	5 % Contingencies				13141
	Services				77048
	Works overhead @ 15% on Services				11557
	Contingencies @ 5% on Service cost				3852
	TOTAL ESTIMATE COST				**399107**

Cost data per KM of LT I-Ph 3 wire Line (Horizontal formation) with 3x55 Sq.mm AAA Conductor over

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	8 M PSCC Pole 200Kgs	20	3450.00	Each	69000
2	8 M PSCC Pole 200Kgs (Struts)	2	3450.00	Each	6900
3	L.T. 1 Phase 3W cross arms with BC	25	550.00	Each	13750
5	MS Stay sets Complete with base plate	4	576.35	Each	2305
6	55 Sq.mm AAA Conductor	3	67000.00	Each	205020
7	LT Shakle Insulator	8	30.00	Each	240
8	LT Metal Parts for Shackles	8	48.00	Each	384
9	MS Stay clamp for Strut poles	4	161.00	Each	644
10	L.T.pin insulator	34	31.00	Each	1054
11	L.T. GI pin	34	37.00	Each	1258
12	C.I. Knob	20	11.01	Each	220
13	Concreting of Pole & Base concreting	7	3012.00	Each	21084
14	Concreting of Stay sets	4	1530.00	Each	6120
15	Misc. Items like coil earthing, pipe earthing, danger boards, bolts & nuts, etc.	LS	4000.00	LS	4000
	TOTAL				**331980**
	15% stores overhead charges on items (1) to (12)		264337		39651
	5 % Contingencies				16599
	Services				89792
	Works overhead @ 15% on Services				13469
	Contingencies @ 5% on Service cost				4490
	TOTAL ESTIMATE COST				**495980**

Cost data per KM of LT 3-Ph 4 wire Line (Horizontal formation) with 4x55 Sq.mm AAA Conductor over

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	8 M PSCC Pole 200Kgs	20	3450.00	Each	69000
2	8 M PSCC Pole 200Kgs (Struts)	2	3450.00	Each	6900
3	L.T. 3 Phase 4W cross arms with BC	25	446.20	Each	11155
5	MS Stay sets Complete with base plate	4	576.35	Each	2305
6	55 Sq.mm AAA Conductor	4	67000.00	Each	273360
7	LT Shakle Insulator	12	30.00	Each	360
8	LT Metal Parts for Shackles	12	48.00	Each	576
9	MS Stay clamp for Strut poles	4	61.00	Each	244
10	L.T.pin insulator	51	31.00	Each	1581
11	L.T. GI pin	51	37.00	Each	1887
12	C.I. Knob	20	11.01	Each	220
13	Concreting of Pole & Base concreting	7	3012.00	Each	21084
14	Concreting of Stay sets	4	1530.00	Each	6120
15	Misc. Items like coil earthing, pipe earthing, danger boards, bolts & nuts, etc.	LS	4000.00	LS	4000
	TOTAL				**398793**
	15% stores overhead charges on items (1) to (12)		324746		48712
	5 % Contingencies				19940
	Services				91120
	Works overhead @ 15% on Services				13668
	Contingencies @ 5% on Service cost				4556
	TOTAL ESTIMATE COST				**576788**

Cost data per KM of LT 3-Ph 4 wire Line (Horizontal formation) with 4x55 Sq.mm AAA Conductor over

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	9.1 M PSCC Pole 200Kgs	20	4910.00	Each	98200
2	8 M PSCC Pole 200Kgs (Struts)	2	3450.00	Each	6900
3	L.T. 3 Phase 4W cross arms with BC	25	446.20	Each	11155
	MS Stay sets Complete with base plate	4	576.35	Each	2305
6	55 Sq.mm AAA Conductor	4	67000.00	Each	273360
7	LT Shakle Insulator	12	30.00	Each	360
8	LT Metal Parts for Shackles	12	48.00	Each	576
9	MS Stay clamp for Strut poles	4	61.00	Each	244
10	L.T.pin insulator	51	31.00	Each	1581
11	L.T. GI pin	51	37.00	Each	1887
12	C.I. Knob	20	11.01	Each	220
13	Concreting of Pole & Base concreting	7	3012.00	Each	21084
14	Concreting of Stay sets	4	1530.00	Each	6120
15	Misc. Items like coil earthing, pipe earthing, danger boards, bolts & nuts, etc.	LS	4000.00	LS	4000
	TOTAL				427993
	15% stores overhead charges on items (1) to (12)		353271		52991
	5 % Contingencies				21400
	Services				114137
	Works overhead @ 15% on Services				17121
	Contingencies @ 5% on Service cost				5707
	TOTAL ESTIMATE COST				**639347**

Cost data per KM of LT 3-Ph 5 wire Line (Horizontal formation) with 5x55 Sq.mm AAA Conductor over

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	8 M PSCC Pole 200Kgs	20	3450.00	Each	69000
2	8 M PSCC Pole 200Kgs (Struts)	2	3450.00	Each	6900
3	L.T. 3 Phase 5W cross arms with BC	25	794.00	Each	19850
5	MS Stay sets Complete with base plate	4	576.35	Each	2305
6	55 Sq.mm AAA Conductor	5	67000.00	Each	341700
7	LT Shakle Insulator	16	30.00	Each	480
8	LT Metal Parts for Shackles	16	48.00	Each	768
9	MS Stay clamp for Strut poles	4	61.00	Each	244
10	L.T.pin insulator	68	31.00	Each	2108
11	L.T. GI pin	68	37.00	Each	2516
12	C.I. Knob	20	11.01	Each	220
13	Concreting of Pole & Base concreting	7	3012.00	Each	21084
14	Concreting of Stay sets	4	1530.00	Each	6120
15	Misc. Items like coil earthing, pipe earthing, danger boards, bolts & nuts, etc.	LS	4000.00	LS	4000
	TOTAL				**477296**
	15% stores overhead charges on items (1) to (12)		384905		57736
	5 % Contingencies				23865
	Services				97348
	Works overhead @ 15% on Services				14602
	Contingencies @ 5% on Service cost				4867
	TOTAL ESTIMATE COST				**675714**

Cost data per KM of LT 3-Ph 5 wire Line (Horizontal formation) with 5x55 Sq.mm AAA Conductor over

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	9.1 M PSCC Pole 200Kgs	20	4910.00	Each	98200
2	8 M PSCC Pole 200Kgs (Struts)	2	3450.00	Each	6900
3	L.T. 3 Phase 5W cross arms with BC	25	794.00	Each	19850
5	MS Stay sets Complete with base plate	4	576.35	Each	2305
6	55 Sq.mm AAA Conductor	5	58117.95	Each	296402
7	LT Shakle Insulator	16	30.00	Each	480
8	LT Metal Parts for Shackles	16	48.00	Each	768
9	MS Stay clamp for Strut poles	4	61.00	Each	244
10	L.T.pin insulator	68	31.00	Each	2108
11	L.T. GI pin	68	37.00	Each	2516
12	C.I. Knob	20	11.01	Each	220
13	Concreting of Pole & Base concreting	7	3012.00	Each	21084
14	Concreting of Stay sets	4	1530.00	Each	6120
15	Misc. Items like coil earthing, pipe earthing, danger boards, bolts & nuts, etc.	LS	4000.00	LS	4000
	TOTAL				**461197**
	15% stores overhead charges on items (1) to (12)		413123		61968
	5 % Contingencies				23060
	Services				116776
	Works overhead @ 15% on Services				17516
	Contingencies @ 5% on Service cost				5839
	TOTAL ESTIMATE COST				**686357**

Cost data per KM of LT 2x16+25 Sqmm AB Cable over 8.0 Mt Pscc Pole at 50 Mt Span 75 Kg /Sq .Mt

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	8 M PSCC Pole 200Kgs	20	3450.00	Each	69000
2	8 M PSCC Pole 200Kgs (Struts)	2	3450.00	Each	6900
3	L.T. 1 Phase 3W cross arms with BC	20	550.00	Each	11000
5	MS Stay sets Complete with base plate	4	576.35	Each	2305
6	AB Cable 2X16+25 Sqmm	1	55870.00	Mtr	56429
7	LT Shakle Insulator	4	30.00	Each	120
8	LT Metal Parts for Shackles	4	48.00	Each	192
9	MS Stay clamp for Strut poles	4	61.00	Each	244
10	L.T.pin insulator	17	31.00	Each	527
11	L.T. GI pin	17	37.00	Each	629
12	C.I. Knob	2	11.01	Each	22
13	Concreting of Pole & Base concreting	7	3012.00	Each	21084
14	Concreting of Stay sets	4	1530.00	Each	6120
15	Misc. Items like coil earthing, pipe earthing, danger boards, bolts & nuts, etc.	LS	4000.00	LS	4000
	TOTAL				**178572**
	15% stores overhead charges on items (1) to (12)		142804		21421
	5 % Contingencies				8929
	Services				71896
	Works overhead @ 15% on Services				10784
	Contingencies @ 5% on Service cost				3595
	TOTAL ESTIMATE COST				**295197**

Cost data per KM of LT 3x16+25 Sqmm AB Cable over 8.0 Mt Pscc Pole at 50 Mt Span 75 Kg /Sq .Mt

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	8 M PSCC Pole 200Kgs	20	3450	Each	69000
2	8 M PSCC Pole 200Kgs (Struts)	2	3450	Each	6900
3	L.T. 1 Phase 3W cross arms with BC	20	550.00	Each	11000
5	MS Stay sets Complete with base plate	4	576.35	Each	2305
6	AB Cable 3X16+25 Sqmm	1	64920	Mtr	65569
7	LT Shakle Insulator	4	30.00	Each	120
8	LT Metal Parts for Shackles	4	48.00	Each	192
9	MS Stay clamp for Strut poles	4	61.00	Each	244
10	L.T.pin insulator	17	31.00	Each	527
11	L.T. GI pin	17	37.00	Each	629
12	C.I. Knob	2	11.01	Each	22
13	Concreting of Pole & Base concreting	7	3012	Each	21084
14	Concreting of Stay sets	4	1530	Each	6120
15	Misc. Items like coil earthing, pipe earthing, danger boards, bolts & nuts, etc.	LS	4000	LS	4000
	TOTAL				**187713**
	15% stores overhead charges on items (1) to (11)		160846		24127
	5 % Contingencies				9386
	Services				72620
	Works overhead @ 15% on Services				10893
	Contingencies @ 5% on Service cost				3631
	TOTAL ESTIMATE COST				**308369**

Cost data for erection of 33KV Bay extension in existing 33/11KV Sub-Station.

S.No.	Particulars	Qnty.	Rate	Per.	Amount
1	150 x 150Sq.mm RS Joists	0.8	75000	MT	60000
2	100 x 50Sq.mm Channel	0.5	85000	MT	42500
3	MS Flat 75 x 8mm	0.4	81540	MT	32616
4	AB Switch 800Amps converntional type	1	33618	Each	33618
5	200Sq.mm ACSR Conductor (Panther conductor)	0.05	250000	Km	12500
6	33KV Strain Insulators(Polymer)	6	470	Each	2818
7	33KV Metal Parts	2	350	set	700
13	Earthing arrangments (20mts length with 75 x 8 MS flat)	LS			12600
14	Miscelleneous items like fabrication of channels & Pad clamps & T Clamps and concreting etc.,	LS			18000
	TOTAL				**215352**
	15% stores overhead charges on items (1) to (12)		184752		27713
	5 % Contingencies				10768
	Services	LS			72000
	Works overhead @ 15% on Services				10800
	Contingencies @ 5% on Service cost				3600
	TOTAL ESTIMATE COST				**340232**

Cost data for erection of 1KV Bay extension along with VCB in existing 33/11KV Sub-Station.

S.No.	Particulars	Qnty.	Rate	Per.	Amount
1	150 x 150Sq.mm RS Joists	0.8	75000	MT	60000
2	100 x 50Sq.mm Channel	0.5	85400	MT	42700
3	MS Flat 75 x 8mm	0.3	81540	MT	24462
	MS angle 65 x 65 x 6mm	0.1	79300	MT	7930
4	11KVAB Switch 400Amps converntional type	2	14520	Each	29040
5	200Sq.mm ACSR Conductor (Panther conductor)	0.05	250000	Km	12500
	11 KV Feeder VCB with CTs & Control Panel	1.00	588654	Each	588654
	11 KV Lightning arrestor station type	3.00	2977	Each	8931
	11 KV Post type insulators	12.00	323	Each	3870
	24V 40AH Battery with trickle charger	1.00	17109	Each	17109
6	11KV Strain Insulators(Polymer)	6	260	Each	1560
7	11KV Metal Parts	6	150	Each	900
	LT PVC CU Control Cable 4 C 2.5sqmm	50	102	M	5105
	LT PVC CU Control Cable 10 C 2.5sqmm	50	253	M	12662
	CI Earth pipe	3	3500	Each	10500
13	Earthing arrangments (20mts length with 75 x 8 MS flat)	LS			12600
14	Miscelleneous items like fabrication of channels & Pad clamps & T Clamps etc.,	LS			12000
15	Plinth for VCB and concreting of structures	LS			78000
	TOTAL				**928522**
	15% stores overhead charges on items (1) to (12)		825922		123888
	5 % Contingencies				46426
	Services	LS			100000
	Works overhead @ 15% on Services				15000
	Contingencies @ 5% on Service cost				5000
	TOTAL ESTIMATE COST				**1218836**

Cost data for Erection of 1 Ph 16KVA DTR

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	6.3 KV/240V 16KVA S PH (AL) Conventional Transformer	1	51241	E	51241
2	Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes)6.3 KV 200 Amps AB Switch (Tilting) polymer type insulators,stays and mounting arrangements.	1	24217.69	E	24217.69
3	Erection of 6.3 KV H.G. Fuse set	1	924.55	E	924.55
4	LT Metering arrangements with CTs including cable(25sq.mm. Single Core XLPE) connections and cleat arrangement	1	1745.04	E	1745.04
5	Distribuion box with 1 No 100A Fuse unit and cleat wiring with 50Sqmm XLPE and LT side arm with sturt	1	5156.6	E	5156.6
6	Installation of HT Lightening Arrestors	1	1156.4	E	1156.4
7	Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.)	LS		1	6000
	TOTAL				**90441**
	15% stores overhead charges on items (1) to (6)		84441		12666
	5 % Contingencies				4522
	Services	LS			7500
	Works overhead @ 15% on Services				1125
	Contingencies @ 5% on Service cost				375
	TOTAL ESTIMATE COST				**116630**

Cost data for Erection of 1 Ph 16KVA DTR (CU)

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	6.3 KV/240V 16KVA S PH (CU) Conventional Transformer	1	71783.13	E	71783.13
2	Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes)6.3 KV 200 Amps AB Switch (Tilting) polymer type insulators,stays and mounting arrangements.	1	24217.69	E	24217.69
3	Erection of 6.3 KV H.G. Fuse set	1	924.55	E	924.55
4	LT Metering arrangements with CTs including cable(25sq.mm. Single Core XLPE) connections and cleat arrangement	1	1745.04	E	1745.04
5	Distribuion box with 1 No 100A Fuse unit and cleat wiring with 50Sqmm XLPE and LT side arm with sturt	1	5156.6	E	5156.6
6	Installation of HT Lightening Arrestors	1	1156.4	E	1156.4
7	Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.)	LS		1	6000
	TOTAL				**110983**
	15% stores overhead charges on items (1) to (6)		104983		15748
	5 % Contingencies				5549
	Services	LS			7500
	Works overhead @ 15% on Services				1125
	Contingencies @ 5% on Service cost				375
	TOTAL ESTIMATE COST				**141280**

Cost data for Erection of 1 Ph 25KVA DTR

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	6.3 KV/240V 25KVA S PH (AL) Conventional Transformer	1	68592.31	E	68592.31
2	Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes)6.3 KV 200 Amps AB Switch (Tilting) polymer type insulators,stays and mounting arrangements.	1	24217.69	E	24217.69
3	Erection of 6.3 KV H.G. Fuse set	1	924.55	E	924.55
4	LT Metering arrangements with CTs including cable(25sq.mm. Single Core XLPE) connections and cleat arrangement	1	1745.04	E	1745.04
5	Distribuion box with 1 No 100A Fuse unit and cleat wiring with 50Sqmm XLPE and LT side arm with sturt	1	5156.6	E	5156.6
6	Installation of HT Lightening Arrestors	1	1156.4	E	1156.4
7	Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.)	LS		1	6000
	TOTAL				**107793**
	15% stores overhead charges on items (1) to (6)		101793		15269
	5 % Contingencies				5390
	Services	LS			7500
	Works overhead @ 15% on Services				1125
	Contingencies @ 5% on Service cost				375
	TOTAL ESTIMATE COST				**137451**

Cost data for Erection of 1 Ph 50 KVA DTR

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	6.3 KV/240V 50KVA S PH (CU) Conventional Transformer	1	148079.72	E	148079.72
2	Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes)6.3 KV 200 Amps AB Switch (Tilting) polymer type insulators,stays and mounting arrangements.	1	24217.69	E	24217.69
3	Erection of 6.3 KV H.G. Fuse set	1	924.55	E	924.55
4	LT Metering arrangements with CTs including cable(25sq.mm. Single Core XLPE) connections and cleat arrangement	1	1745.04	E	1745.04
5	Distribuion box with 1 No 100A Fuse unit and cleat wiring with 50Sqmm XLPE and LT side arm with sturt	1	5156.6	E	5156.6
6	Installation of HT Lightening Arrestors	1	1156.4	E	1156.4
7	Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.)	LS		1	6000
	TOTAL				**187280**
	15% stores overhead charges on items (1) to (6)		181280		27192
	5 % Contingencies				9364
	Services	LS			7500
	Works overhead @ 15% on Services				1125
	Contingencies @ 5% on Service cost				375
	TOTAL ESTIMATE COST				**232836**

Cost data for Erection of 1 Ph 75 KVA DTR

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	6.3 KV/240V 75KVA S PH (CU) Conventional Transformer	1	205594.39	E	205594.39
2	Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes)6.3 KV 200 Amps AB Switch (Tilting) polymer type insulators,stays and mounting arrangements.	1	24217.69	E	24217.69
3	Erection of 6.3 KV H.G. Fuse set	1	924.55	E	924.55
4	LT Metering arrangements with CTs including cable(25sq.mm. Single Core XLPE) connections and cleat arrangement	1	1745.04	E	1745.04
5	Distribuion box with 1 No 100A Fuse unit and cleat wiring with 50Sqmm XLPE and LT side arm with sturt	1	5156.6	E	5156.6
6	Installation of HT Lightening Arrestors	1	1156.4	E	1156.4
7	Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.)	LS		1	6000
	TOTAL				**244795**
	15% stores overhead charges on items (1) to (6)		238795		35819
	5 % Contingencies				12240
	Services	LS			7500
	Works overhead @ 15% on Services				1125
	Contingencies @ 5% on Service cost				375
	TOTAL ESTIMATE COST				**301854**

Cost data for Erection of 3 Ph 16KVA DTR

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	11 KV/433V 16KVA (AL) Conventional Transformer	1	83601.6	E	83601.6
2	Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes)11 KV 200 Amps AB Switch (Tilting) polymer type insulators,stays and mounting arrangements.	1	26044.69	E	26044.69
3	Erection of 11 KV H.G. Fuse set	1	3304	E	3304
4	LT Metering arrangements with CTs including cable(25sq.mm. Single Core XLPE) connections and cleat arrangement	1	10744	E	10744
5	AMR Unit	1	3322.88	E	3322.88
6	Installation of A type distribuion box of 1-feeder with 500V,100A fuse units	1	5156.6	E	5156.6
7	Installation of HT Lightening Arrestors	3	1156.4	E	3469.2
8	Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.)	LS		1	6000
	TOTAL				**141643**
	15% stores overhead charges on items (1) to (7)		135643		20346
	5 % Contingencies				7082
	Services	LS			15526
	Works overhead @ 15% on Services				2329
	Contingencies @ 5% on Service cost				776
	TOTAL ESTIMATE COST				**187703**

Cost data for Erection of 3 Ph 25KVA DTR

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	11 KV/433V 25KVA (AL) Conventional Transformer	1	71584.3	E	71584.3
2	Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes)11 KV 200 Amps AB Switch (Tilting) polymer type insulators,stays and mounting arrangements.	1	26044.69	E	26044.69
3	Erection of 11 KV H.G. Fuse set	1	3304	E	3304
4	LT Metering arrangements with CTs including cable(25sq.mm. Single Core XLPE) connections and cleat arrangement	1	10744	E	10744
5	AMR Unit	1	3322.88	E	3322.88
6	Installation of A type distribuion box of 1-feeder with 500V,100A fuse units	1	5156.6	E	5156.6
7	Installation of HT Lightening Arrestors	3	1156.4	E	3469.2
8	Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.)	LS		1	6000
	TOTAL				**129626**
	15% stores overhead charges on items (1) to (7)		123626		18544
	5 % Contingencies				6481
	Services	LS			15659
	Works overhead @ 15% on Services				2349
	Contingencies @ 5% on Service cost				783
	TOTAL ESTIMATE COST				**173442**

Cost data for Erection of 3 Ph 25KVA DTR

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	11 KV/433V 25KVA (CU) Conventional Transformer 5 star	1	139999	E	139999
2	Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes)11 KV 200 Amps AB Switch (Tilting) polymer type insulators,stays and mounting arrangements.	1	26044.69	E	26044.69
3	Erection of 11 KV H.G. Fuse set	1	3304	E	3304
4	LT Metering arrangements with CTs including cable(25sq.mm. Single Core XLPE) connections and cleat arrangement	1	10744	E	10744
5	AMR Unit	1	3322.88	E	3322.88
6	Installation of A type distribuion box of 1-feeder with 500V,100A fuse units	1	5156.6	E	5156.6
7	Installation of HT Lightening Arrestors	3	1156.4	E	3469.2
8	Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.)	LS		1	6000
	TOTAL				**198040**
	15% stores overhead charges on items (1) to (7)		192040		28806
	5 % Contingencies				9902
	Services	LS			15659
	Works overhead @ 15% on Services				2349
	Contingencies @ 5% on Service cost				783
	TOTAL ESTIMATE COST				**255539**

Cost data for Erection of 3 Ph 40KVA DTR

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	11 KV/433V 40KVA (CU) Conventional Transformer	1	168171.89	E	168171.89
2	Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes)11 KV 200 Amps AB Switch (Tilting) polymer type insulators, stays and mounting arrangements.	1	26044.69	E	26044.69
3	Erection of 11 KV H.G. Fuse set	1	3304	E	3304
4	LT Metering arrangements with CTs including cable(25sq.mm. Single Core XLPE) connections and cleat arrangement	1	10744	E	10744
5	AMR Unit	1	3322.88	E	3322.88
6	Installation of A type distribuion box of 1-feeder with 500V,100A fuse units	1	5156.6	E	5156.6
7	Installation of HT Lightening Arrestors	3	1156.4	E	3469.2
8	Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.)	LS		1	6000
	TOTAL				**226213**
	15% stores overhead charges on items (1) to (7)		220213		33032
	5 % Contingencies				11311
	Services	LS			15816
	Works overhead @ 15% on Services				2372
	Contingencies @ 5% on Service cost				791
	TOTAL ESTIMATE COST				**289535**

Cost data for Erection of 3 Ph 63KVA DTR

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	11 KV/433V 63KVA (AL) Conventional Transformer	1	254750	E	254750
2	Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes)11 KV 200 Amps AB Switch (Tilting) polymer type insulators, and stays.	1	26044.69	E	26044.69
3	Erection of 11 KV H.G. Fuse set	1	3304	E	3304
4	LT Metering arrangements with CTs including cable(25sq.mm. Single Core XLPE) connections and cleat arrangement	1	10744	E	10744
5	AMR Unit	1	3322.88	E	3322.88
6	Installation of A type distribuion box of 2-feeder with 500V,100A fuse units	2	5156.6	E	10313.2
7	Installation of HT Lightening Arrestors	3	1156.4	E	3469.2
8	Plinth for DTR	1	30400	E	30400
9	Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.)	LS		1	6000
	TOTAL				**348348**
	15% stores overhead charges on items (1) to (7)		342348		51352
	5 % Contingencies				17417
	Services	LS			45590
	Works overhead @ 15% on Services				6839
	Contingencies @ 5% on Service cost				2280
	TOTAL ESTIMATE COST				**471826**

Cost data for Erection of 3 Ph 100KVA DTR

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	11 KV/433V 100KVA (AL) Conventional Transformer 2 star rating	1	201426.64	E	201426.84
2	Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes)11 KV 200 Amps AB Switch (Tilting) polymer type insulators and stays	1	26044.69	E	26044.69
3	Erection of 11 KV H.G. Fuse set	1	3304	E	3304
4	LT Metering arrangements with CTs including cable(25sq.mm. Single Core XLPE) connections and cleat arrangement	1	10744	E	10744
5	AMR Unit	1	3322.88	E	3322.88
6	Installation of A type distribuion box of 2-feeder with 500V,100A fuse units	2	5156.6	E	10313.2
7	Installation of HT Lightening Arrestors	3	1156.4	E	3469.2
8	Plinth for DTR	1	30400		30400
9	Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.)	LS		1	6000
	TOTAL				**295025**
	15% stores overhead charges on items (1) to (7)		289025		43354
	5 % Contingencies				14751
	Services	LS			45784
	Works overhead @ 15% on Services				6868
	Contingencies @ 5% on Service cost				2289
	TOTAL ESTIMATE COST				**408071**

Cost data for Erection of 3 Ph 100KVA DTR

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	11 KV/433V 100KVA (AL) Conventional Transformer 5 star rating	1	208779.19	E	321799.14
2	Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes)11 KV 200 Amps AB Switch (Tilting) polymer type insulators and stays	1	26044.69	E	26044.69
3	Erection of 11 KV H.G. Fuse set	1	3304	E	3304
4	LT Metering arrangements with CTs including cable(25sq.mm. Single Core XLPE) connections and cleat arrangement	1	10744	E	10744
5	AMR Unit	1	3322.88	E	3322.88
6	Installation of A type distribuion box of 2-feeder with 500V,100A fuse units	2	5156.6	E	10313.2
7	Installation of HT Lightening Arrestors	3	1156.4	E	3469.2
8	Plinth for DTR	1	30400		30400
9	Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.)	LS		1	6000
	TOTAL				**415397**
	15% stores overhead charges on items (1) to (7)		409397		61410
	5 % Contingencies				20770
	Services	LS			45784
	Works overhead @ 15% on Services				6868
	Contingencies @ 5% on Service cost				2289
	TOTAL ESTIMATE COST				**552517**

Cost data for Erection of 3 Ph 160KVA DTR

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	11 KV/433V 160KVA (AL) Conventional Transformer	1	569700	E	569700
2	Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes)11 KV 200 Amps AB Switch (Tilting) polymer type insulators and stays.	1	26044.69	E	26044.69
3	Erection of 11 KV H.G. Fuse set	1	3304	E	3304
4	LT Metering arrangements with CTs including cable(25sq.mm. Single Core XLPE) connections and cleat arrangement	1	10744	E	10744
5	AMR Unit	1	3322.88	E	3322.88
6	Installation of A type distribuion box of 2-feeder with 500V,100A fuse units	2	5156.6	E	10313.2
7	Installation of HT Lightening Arrestors	3	1156.4	E	3469.2
8	Plinth for DTR	1	30400		30400
9	Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.)	LS		1	6000
	TOTAL				**663298**
	15% stores overhead charges on items (1) to (7)		657298		98595
	5 % Contingencies				33165
	Services	LS			46267
	Works overhead @ 15% on Services				6940
	Contingencies @ 5% on Service cost				2313
	TOTAL ESTIMATE COST				850578

Cost data for Erection of 3 Ph 250KVA DTR

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	11 KV/433V 250KVA (Cu) Conventional Transformer	1	612961.47	E	612961.47
2	Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes)11 KV 200 Amps AB Switch (Tilting) polymer type insulators and stays.	1	26044.69	E	26044.69
3	Erection of 11 KV H.G. Fuse set	1	3304	E	3304
4	LT Metering arrangements with CTs including cable(25sq.mm. Single Core XLPE) connections and cleat arrangement	1	10744	E	10744
5	AMR Unit	1	3322.88	E	3322.88
6	Installation of A type distribuion box of 2-feeder with 500V,100A fuse units	2	5156.6	E	10313.2
7	Installation of HT Lightening Arrestors	3	1156.4	E	3469.2
8	Plinth for DTR	1	30400		30400
9	Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.)	LS		1	6000
	TOTAL				**706559**
	15% stores overhead charges on items (1) to (7)		700559		105084
	5 % Contingencies				35328
	Services	LS			20000
	Works overhead @ 15% on Services				3000
	Contingencies @ 5% on Service cost				1000
	TOTAL ESTIMATE COST				**870971**

Cost data for Erection of 3 Ph 315KVA DTR

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	11 KV/433V 315KVA (Cu) Conventional Transformer	1	1675000	E	1675000
2	Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes)11 KV 200 Amps AB Switch (Tilting) polymer type insulators and stays.	1	26044.69	E	26044.69
3	Erection of 11 KV H.G. Fuse set	1	3304	E	3304
4	LT Metering arrangements with CTs including cable(90sq.mm. Single Core XLPE) connections and cleat arrangement	1	10744	E	10744
5	AMR Unit	1	3322.88	E	3322.88
6	Installation of A type distribuion box of 3-feeder with 500V,100A fuse units	3	5156.6	E	15469.8
7	Installation of HT Lightening Arrestors	3	1156.4	E	3469.2
8	Plinth for DTR	1	30400		30400
9	Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.)	LS		1	6000
	TOTAL				**1773755**
	15% stores overhead charges on items (1) to (7)		1767755		265163
	5 % Contingencies				88688
	Services	LS			48336
	Works overhead @ 15% on Services				7250
	Contingencies @ 5% on Service cost				2417
	TOTAL ESTIMATE COST				**2185609**

Cost data for Erection of 3 Ph 500KVA DTR

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	11 KV/433V 500KVA (Cu) Conventional Transformer	1	1077332.7	E	1077332.7
2	Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes)11 KV 400 Amps AB Switch (Tilting) polymer type insulators and stays.	1	26044.69	E	26044.69
3	Erection of 11 KV H.G. Fuse set	1	3304	E	3304
4	LT Metering arrangements with CTs including cable(90sq.mm. Single Core XLPE) connections and cleat arrangement	1	10744	E	10744
5	AMR Unit	1	3322.88	E	3322.88
6	Installation of A type distribuion box of 3-feeder with 500V,100A fuse units	3	5156.6	E	15469.8
7	Installation of HT Lightening Arrestors	3	1156.4	E	3469.2
8	Plinth for DTR	1	40000		40000
9	Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.)	LS		1	6000
	TOTAL				**1185687**
	15% stores overhead charges on items (1) to (7)		1179687		176953
	5 % Contingencies				59284
	Services	LS			22000
	Works overhead @ 15% on Services				3300
	Contingencies @ 5% on Service cost				1100
	TOTAL ESTIMATE COST				**1448325**

Cost data for Erection of 3 Ph 1000KVA DTR

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	11 KV/433V 1000KVA (Cu) Conventional Transformer	1	1702422.2	E	1702422.2
2	Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes)11 KV 400 Amps AB Switch (Tilting) polymer type insulators and stays.	1	26044.69	E	26044.69
3	Erection of 11 KV H.G. Fuse set	1	3304	E	3304
4	LT Metering arrangements with CTs including cable(90sq.mm. Single Core XLPE) connections and cleat arrangement	1	10744	E	10744
5	AMR Unit	1	3322.88	E	3322.88
6	Installation of A type distribuion box of 3-feeder with 500V,100A fuse units	3	5156.6	E	15469.8
7	Installation of HT Lightening Arrestors	3	1156.4	E	3469.2
8	Plinth for DTR	1	60000		60000
9	Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.)	LS		1	6000
	TOTAL				**1830777**
	15% stores overhead charges on items (1) to (7)		1824777		273717
	5 % Contingencies				91539
	Services	LS			25000
	Works overhead @ 15% on Services				3750
	Contingencies @ 5% on Service cost				1250
	TOTAL ESTIMATE COST				2226032

Fixing of 1 Ph Electronic Meter

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	LT 1 phase Electronic Meter 5-30A	1	550.02	E	550.02
2	1 phase 15A M.C.B./Fuse Unit	1	1,268	E	1268
3	Light sensitive switch	1	400	E	400
4	P.V.C. Cable 4 Sq.mm Single Core	15	24	Mtr	360
5	P.V.C. Pipe 25mm P.V.C. Bends 25mm Moulded Distribution Box	2	40	E	80
6	Wooden, plugs, clamps, bolts,nuts link clips etc	LS	100	LS	100
	TOTAL				**2758**
	15% stores overhead charges on items (1) to (11)		2658		399
	5 % Contingencies				138
	Services				200
	Works overhead @ 15% on Services				30
	Contingencies @ 5% on Service cost				10
	TOTAL ESTIMATE COST				**3535**

Fixing of 1 Ph Electronic Meter

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	LT 1 phase Electronic Meter 5-40A	1	1230	E	1230
2	1 phase 15A M.C.B./Fuse Unit	1	1,268	E	1268
3	Light sensitive switch	1	400	E	400
4	P.V.C. Cable 4 Sq.mm Single Core	15	24	Mtr	360
5	P.V.C. Pipe 25mm P.V.C. Bends 25mm Moulded Distribution Box	2	40	E	80
6	Wooden, plugs, clamps, bolts,nuts link clips etc	LS	100	LS	100
	TOTAL				**3438**
	15% stores overhead charges on items (1) to (11)		3338		501
	5 % Contingencies				172
	Services				200
	Works overhead @ 15% on Services				30
	Contingencies @ 5% on Service cost				10
	TOTAL ESTIMATE COST				**4351**

Fixing of 3 Ph Electronic Meter

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	LT 3 phase Electronic Meter 5-40A	1	2268.06	E	2268.06
2	3 phase 40A M.C.B./Fuse Unit	1	1,868	E	1868
3	Light sensitive switch	1	400	E	400
4	P.V.C. Cable 4 Sq.mm Single Core	15	48	Mtr	720
5	P.V.C. Pipe 25mm P.V.C. Bends 25mm Moulded Distribution Box	LS	200	E	200
6	Wooden, plugs, clamps, bolts,nuts link clips etc	LS	100	LS	100
	TOTAL				**5556**
	15% stores overhead charges on items (1) to (11)		5456		818
	5 % Contingencies				278
	Services				800
	Works overhead @ 15% on Services				120
	Contingencies @ 5% on Service cost				40
	TOTAL ESTIMATE COST				**7612**

Fixing of 3 Ph class 0.5 CT Operated Electronic Meter

Sl. No.	Particulars	Qty.	Rate in Rs.	Per Unit	Amount in Rs.
1	LT 3 phase class 0.5 Accuracy CT Operated meter	1	9270	E	9270
2	GI Wire No. 8	2	71	KG	142
3	Light sensitive switch	1	400	E	400
4	P.V.C. Cable 4 Sq.mm Single Core	15	55.62	Mtr	834.3
5	P.V.C. Pipe 25mm P.V.C. Bends 25mm Moulded Distribution Box	LS	400	E	200
6	Wooden, plugs, clamps, bolts,nuts link clips etc	LS	200	LS	100
	TOTAL				**10946**
	15% stores overhead charges on items (1) to (11)		10846		1627
	5 % Contingencies				547
	Services				800
	Works overhead @ 15% on Services				120
	Contingencies @ 5% on Service cost				40
	TOTAL ESTIMATE COST				**14081**

Detailed Estimate For Erection of 33/11 KV Sub-Station
with (NT) X 5 MVA Power Transformers and NF = 3Nos. 11 KV feeders
(With 11kv 2 MVAR Capacitors Bank)

Sl. No.	Material code	Particulars	Qty.	Rate (Rs. in lakhs)	Unit	Amount (Rs. in lakhs)
1		a) Lands and Rights	LS	As per local conditions	LS	7.000
		b) Plantation of Trees	LS		LS	0.200
2		Control Room Cum section Office(including furniture)	LS		LS	14.000
3		Station Auxillaries				
		a) Peripheral, Security Fencing, Approach road, retaing wall around switchward with gravel filling, gate and bore well	LS		LS	9.200
		b) Yard Lighting	LS		LS	0.500
		c) Fire Fighting Equipment	LS		LS	0.400
		d) Mobile Phone	LS		LS	0.050
4		Foundations for structures, PTRs & breakers	LS		LS	3.800
5		Busbar, Jumpers, Connectors Clamps etc.,	LS		LS	1.500
6		Control Cables	LS		LS	1.200
7		Structural Steel	15	0.637	MT	9.558
8		Transformers				
	PTR00006	a) 33/11 KV 5 MVA Power Transformer	1	49.497	Each	49.497
	DTC30149	b) 11 kv /433 v 25 KVA Stn. Transformer	1	1.399	Each	1.399
9		Circuit Breakers (including Trivector Meter)				
	BRK10002	a) 11 kv Feeder VCB with CTs & Control panel (NF=3)	3	5.886	Each	17.658
	BRK10004	b) 11 kv LV VCB with CTs & Control panel	1	8.207	Each	8.207
10		Control Circuit panels				
	OTH00057	a) AC distribution Panel	1	0.350	Each	0.350
	OTH00126	b) DC annunciation panel	1	0.148	Each	0.148
11		Instrument Transformer				
	ITR10020	a) 11 KV P.T. 3 Phase	1	0.195	Each	0.195

Sl. No.		Particulars	Qty.	Rate (Rs. in lakhs)	Unit	Amount (Rs. in lakhs)
12		Lightining Arresstors				
	LAS00004	a) 33 KV 10KA	6	0.0447	Each	0.268
	LAS00001	b) 11 KV Line Type (NF=3)	9	0.01473	Each	0.133
	LAS00002	c) 11 KV Station Type 10 KA	3	0.02977	Each	0.089
13		Isolating Switches				
	ABS30010	a) 33 KV 800 A AB Switch	3	0.4776	Each	1.433
	ABS10015	b) 11 KV 800 A AB Switch (NT x 1+1)	4	0.240	Each	0.960
	ABS10008	c) 11 KV 400 A AB Switch (NF x 2+2)	6	0.145	Each	0.871
	HGF30000	d) 33 KV Horn Gap Fuse Set (1 x NT)	1	0.095	Set	0.095
14	CPT10013	2 MVAR 11 kv Capacitor Bank along with Associated Equipment	1.000	12.159	Each	12.159
15	BAT00029	24 V 40 AH battery set including battery charger	5.000	0.171	Each	0.855
16		Earthing of Power Transformer, VCBs, AB Switches, Structures with 75 x 8 mm G.I. Flat			LS	4.050
		SUB TOTAL				**145.775**
		15% Store over head charges				20.216
		5% Contingencies on Materials				7.289
		Erection, Transport and commissioning charges on items No. 7 to 15				10.079
		15%work over headas charges on labour				1.512
		5% contengencies on labour				0.005
		TOTAL				**184.876**
		Or say (Rs.lakhs)				**184.880**

Note : NF=No. of 11 KV Feeders, The number of outgoing feeders at substation limited to the demand in MVA i.e. if substation demand is 5 MVA, the number of feeders should not exceed five.

Detailed Estimate For Erection of 33/11 KV Sub-Station
with (NT) X 5 MVA Power Transformers and NF = 2Nos. 11 KV feeders
(Without 11kv 2 MVAR Capacitors Bank)

Sl. No.	Material code	Particulars	Qty.	Rate (Rs. in lakhs)	Unit	Amount (Rs. in lakhs)
1		a) Lands and Rights	LS	As per local conditions	LS	7.000
		b) Plantation of Trees	LS		LS	0.200
2		Control Room Cum Section office (including furniture)	LS		LS	14.000
3		Station Auxillaries				
		a) Peripheral, Security Fencing, Approach road, retaing wall around switchward with gravel filling, gate and bore well	LS		LS	9.200
		b) Yard Lighting	LS		LS	0.500
		c) Fire Fighting Equipment	LS		LS	0.400
		d) Mobile Phone	LS		LS	0.050
4		Foundations for structures, PTRs & breakers	LS		LS	3.800
5		Busbar, Jumpers, Connectors Clamps etc.,	LS		LS	1.500
6		Control Cables	LS		LS	1.200
7		Structural Steel	14	0.637	MT	8.921
8		Transformers				
	PTR00006	a) 33/11 KV 5 MVA Power Transformer	1	49.497	Each	49.497
	DTC30001	b) 11 kv /433 v 16 KVA Stn. Transformer	1	1.399	Each	1.399
9		Circuit Breakers (including Trivector Meter)				
	BRK10002	a) 11 kv Feeder VCB with CTs & Control panel (NF=2)	2	5.886	Each	11.772
	BRK10004	b) 11 kv LV VCB with CTs & Control panel	1	8.207	Each	8.207
10		Control Circuit panels				
	OTH00057	a) AC distribution Panel	1	0.350	Each	0.350
	OTH00126	b) DC annunciation panel	1	0.148	Each	0.148
11		Instrument Transformer				
	ITR10020	a) 11 KV P.T. 3 Phase	1	0.195	Each	0.195

Sl. No.		Particulars	Qty.	Rate (Rs. in lakhs)	Unit	Amount (Rs. in lakhs)
12		Lightining Arresstors				
	LAS00004	a) 33 KV 10KA	6	0.0447	Each	0.268
	LAS00001	b) 11 KV Line Type (NF=3)	6	0.01473	Each	0.088
	LAS00002	c) 11 KV Station Type 10 KA	3	0.02977	Each	0.089
13		Isolating Switches				
	ABS30010	a) 33 KV 800 A AB Switch	3	0.4776	Each	1.433
	ABS10015	b) 11 KV 800 A AB Switch (NT x 1+1)	3	0.240	Each	0.720
	ABS10008	c) 11 KV 400 A AB Switch (NF x 2+2)	4	0.145	Each	0.581
	HGF30000	d) 33 KV Horn Gap Fuse Set (1 x NT)	1	0.095	Set	0.095
14	BAT00029	24 V 40 AH battery set including battery charger	2	0.171	Each	0.342
15		Earthing of Power Transformer, VCBs, AB Switches, Structures with 75 x 8 mm G.I. Flat			LS	2.050
		SUB TOTAL				**124.005**
		15% Store over head charges				16.951
		5% Contingencies on Materials				6.200
		Erection, Transport and commissioning charges on items No. 7 to 15				8.449
		15%work over headas charges on labour				1.267
		5% contengencies on labour				0.004
		TOTAL				**156.876**
		Or say (Rs.lakhs)				**156.880**

Note : NF=No. of 11 KV Feeders, The number of outgoing feeders at substation limited to the demand in MVA

Detailed Estimate For Erection of 33/11 KV Sub-Station
with (NT) X 5 MVA Power Transformers and NF = 3Nos. 11 KV feeders
(Without 11kv 2 MVAR Capacitors Bank)

Sl. No.	Material code	Particulars	Qty.	Rate (Rs. in lakhs)	Unit	Amount (Rs. in lakhs)
1		a) Lands and Rights	LS	As per local conditions	LS	7.000
		b) Plantation of Trees	LS		LS	0.200
2		Control Room Cum Section office (including furniture)	LS		LS	14.000
3		Station Auxillaries				
		a) Peripheral, Security Fencing, Approach road, retaing wall around switchward with gravel filling, gate and bore well	LS		LS	9.200
		b) Yard Lighting	LS		LS	0.500
		c) Fire Fighting Equipment	LS		LS	0.400
		d) Mobile Phone	LS		LS	0.050
4		Foundations for structures, PTRs & breakers	LS		LS	3.800
5		Busbar, Jumpers, Connectors Clamps etc.,	LS		LS	1.500
6		Control Cables	LS		LS	0.900
7		Structural Steel	15	0.637	MT	9.558
8		Transformers				
	PTR00006	a) 33/11 KV 5 MVA Power Transformer	1	49.497	Each	49.497
	DTC30001	b) 11 kv /433 v 16 KVA Stn. Transformer	1	1.399	Each	1.399
9		Circuit Breakers (including Trivector Meter)				
	BRK10002	a) 11 kv Feeder VCB with CTs & Control panel (NF=3)	3	5.886	Each	17.658
	BRK10004	b) 11 kv LV VCB with CTs & Control panel	1	8.207	Each	8.207
10		Control Circuit panels				
	OTH00057	a) AC distribution Panel	1	0.350	Each	0.350
	OTH00126	b) DC annunciation panel	1	0.148	Each	0.148
11		Instrument Transformer				
	ITR10020	a) 11 KV P.T. 3 Phase	1	0.195	Each	0.195

Sl. No.		Particulars	Qty.	Rate (Rs. in lakhs)	Unit	Amount (Rs. in lakhs)
12		Lightining Arresstors				
	LAS00004	a) 33 KV 10KA	6	0.0447	Each	0.268
	LAS00001	b) 11 KV Line Type (NF=3)	9	0.01473	Each	0.133
	LAS00002	c) 11 KV Station Type 10 KA	3	0.02977	Each	0.089
13		Isolating Switches				
	ABS30010	a) 33 KV 800 A AB Switch	3	0.4776	Each	1.433
	ABS10015	b) 11 KV 800 A AB Switch (NT x 1+1)	2	0.240	Each	0.480
	ABS10008	c) 11 KV 400 A AB Switch (NF x 2+2)	8	0.145	Each	1.162
	HGF30000	d) 33 KV Horn Gap Fuse Set (1 x NT)	1	0.095	Set	0.095
14	BAT00029	24 V 40 AH battery set including battery charger	2	0.171	Each	0.342
15		Earthing of Power Transformer, VCBs, AB Switches, Structures with 75 x 8 mm G.I. Flat			LS	2.050
		SUB TOTAL				**130.613**
		15% Store over head charges				17.942
		5% Contingencies on Materials				6.531
		Erection, Transport and commissioning charges on items No. 7 to 15				8.842
		15%work over headas charges on labour				1.326
		5% contengencies on labour				0.004
		TOTAL				**165.258**
		Or say (Rs.lakhs)				**165.260**

Note : NF=No. of 11 KV Feeders, The number of outgoing feeders at substation limited to the demand in MVA

Detailed Estimate For Erection of 33/11 KV Sub-Station
with (NT) X 5 MVA Power Transformers and NF = 4 Nos. 11 KV feeders
(Without 11kv 2 MVAR Capacitors Bank)

Sl. No.	Material code	Particulars	Qty.	Rate (Rs. in lakhs)	Unit	Amount (Rs. in lakhs)
1		a) Lands and Rights	LS	As per local conditions	LS	7.000
		b) Plantation of Trees	LS		LS	0.200
2		Control Room Cum Section office (including furniture)	LS		LS	14.000
3		Station Auxillaries				
		a) Peripheral, Security Fencing, Approach road, retaing wall around switchward with gravel filling, gate and bore well	LS		LS	9.200
		b) Yard Lighting	LS		LS	0.500
		c) Fire Fighting Equipment	LS		LS	0.400
		d) P&T Phone	LS		LS	0.120
4		Foundations for structures, PTRs & breakers	LS		LS	3.800
5		Busbar, Jumpers, Connectors Clamps etc.,	LS		LS	1.500
6		Control Cables	LS		LS	0.900
7		Structural Steel	16	0.637	MT	10.195
8		Transformers				
	PTR00006	a) 33/11 KV 5 MVA Power Transformer	1	49.497	Each	49.497
	DTC30001	b) 11 kv /433 v 16 KVA Stn. Transformer	1	1.399	Each	1.399
9		Circuit Breakers (including Trivector Meter)				
	BRK10002	a) 11 kv Feeder VCB with CTs & Control panel (NF=4)	4	5.886	Each	23.544
	BRK10004	b) 11 kv LV VCB with CTs & Control panel	1	8.207	Each	8.207
10		Control Circuit panels				
	OTH00057	a) AC distribution Panel	1	0.350	Each	0.350
	OTH00126	b) DC annunciation panel	1	0.148	Each	0.148
11		Instrument Transformer				
	ITR10020	a) 11 KV P.T. 3 Phase	1	0.195	Each	0.195

Sl. No.		Particulars	Qty.	Rate (Rs. in lakhs)	Unit	Amount (Rs. in lakhs)
12		Lightining Arresstors				
	LAS00004	a) 33 KV 10KA	6	0.0447	Each	0.268
	LAS00001	b) 11 KV Line Type (NF=4)	12	0.01473	Each	0.177
	LAS00002	c) 11 KV Station Type 10 KA	3	0.02977	Each	0.089
13		Isolating Switches				
	ABS30010	a) 33 KV 800 A AB Switch	3	0.4776	Each	1.433
	ABS10015	b) 11 KV 800 A AB Switch (NT x 1+1)	2	0.240	Each	0.480
	ABS10008	c) 11 KV 400 A AB Switch (NF x 4+4)	8	0.145	Each	1.162
	HGF30000	d) 33 KV Horn Gap Fuse Set (1 x NT)	1	0.072	Set	0.072
14	BAT00029	24 V 40 AH battery set including battery charger	5	0.171	Each	0.855
15		Earthing of Power Transformer, VCBs, AB Switches, Structures with 75 x 8 mm G.I. Flat			LS	4.050
		SUB TOTAL				**139.740**
		15% Store over head charges				19.311
		5% Contingencies on Materials				6.987
		Erection, Transport and commissioning charges on items No. 7 to 15				9.237
		15%work over headas charges on labour				1.386
		5% contengencies on labour				0.005
		TOTAL				**176.666**
		Or say (Rs.lakhs)				**176.670**

Note : NF=No. of 11 KV Feeders, The number of outgoing feeders at substation limited to the demand in MVA

Cost data for erection of 12.5MVA additional PTR with 33KV Bay extension in existing 33/11KV Sub-Station.

S.No.	Particulars	Qnty.	Rate	Per.	Amount
1	150 x 150Sq.mm RS Joists	0.8	75000	MT	60000
2	100 x 50Sq.mm Channel	0.5	85400	MT	42700
3	MS Flat 75 x 8mm	0.4	81540	MT	32616
4	AB Switch 800Amps conventional type	1	47760	Each	47760
5	200Sq.mm ACSR Conductor (Panther conductor)	0.05	250000	Km	12500
6	33KV Strain Insulators(Polymer)	6	470	Each	2818
7	33KV Metal Parts	6	350	Each	2100
8	33/11KV 12.5MVA PTR	1	1,04,00,387	Each	10400387
9	33KV 3-Ph HG Fuse Set	1	9534	Each	9534
10	CI Earth pipes	4	3500	Each	14000
11	11 KV LV VCB with CRP and CTs	1	338060	Each	338060
12	33 KV LV VCB with CRP and CTs	1	4,67,206	Each	467206
13	Earthing arrangments (20mts length with 75 x 8 MS flat)	LS			12600
14	Miscelleneous items like fabrication of channels & Pad clamps & T Clamps etc.,	LS			12000
15	Plinth for PTR and VCBs	LS			177667
	TOTAL				**11631948**
	15% stores overhead charges on items (1) to (12)		11429681		1714452
	5 % Contingencies				581597
	Services	LS			120000
	Works overhead @ 15% on Services				18000
	Contingencies @ 5% on Service cost				6000
	TOTAL ESTIMATE COST				**14071998**

Cost data for erection of 10.0MVA additional PTR with 33KV Bay extension in existing 33/11KV Sub-Station.

S.No.	Particulars	Qnty.	Rate	Per.	Amount
1	150 x 150Sq.mm RS Joists	0.8	75000	MT	60000
2	100 x 50Sq.mm Channel	0.5	85400	MT	42700
3	MS Flat 75 x 8mm	0.4	81120	MT	32448
4	AB Switch 800Amps conventional type	1	47760	Each	47760
5	200Sq.mm ACSR Conductor (Panther conductor)	0.05	250000	Km	12500
6	33KV Disc Insulators	6	470	Each	2818
7	33KV Metal Parts	6	350	Each	2100
8	33/11KV 10.0MVA PTR	1	11968091	Each	11968091
9	33KV 3-Ph HG Fuse Set	1	9534	Each	9534
10	CI Earth pipes	4	3500	Each	14000
11	11 KV LV VCB with CRP and CTs	1	338060	Each	338060
12	33 KV LV VCB with CRP and CTs	1	467206	Each	467206
13	Earthing arrangments (20mts length with 75 x 8 MS flat)	LS			12600
14	Miscelleneous items like fabrication of channels & Pad clamps & T Clamps etc.,	LS			12000
15	Plinth for PTR and VCBs	LS			177667
	TOTAL				**13199484**
	15% stores overhead charges on items (1) to (12)		12997217		1949583
	5 % Contingencies				659974
	Services	LS			120000
	Works overhead @ 15% on Services				18000
	Contingencies @ 5% on Service cost				6000
	TOTAL ESTIMATE COST				**15953041**

Cost data for erection of 8.0MVA additional PTR with 33KV Bay extension in existing 33/11KV Sub-Station.

S.No.	Particulars	Qnty.	Rate	Per.	Amount
1	150 x 150Sq.mm RS Joists	0.8	75000	MT	60000
2	100 x 50Sq.mm Channel	0.5	85400	MT	42700
3	MS Flat 75 x 8mm	0.4	81120	MT	32448
4	AB Switch 800Amps conventional type	1	47760	Each	47760
5	200Sq.mm ACSR Conductor (Panther conductor)	0.05	250000	Km	12500
6	33KV Disc Insulators	6	470	Each	2818
7	33KV Metal Parts	6	350	Each	2100
8	33/11KV 8.0MVA PTR	1	6477092	Each	6477092
9	33KV 3-Ph HG Fuse Set	1	9534	Each	9534
10	CI Earth pipes	4	3500	Each	14000
11	11 KV LV VCB with CRP and CTs	1	338060	Each	338060
12	33 KV LV VCB with CRP and CTs	1	467206	Each	467206
13	Earthing arrangments (20mts length with 75 x 8 MS flat)	LS			12600
14	Miscelleneous items like fabrication of channels & Pad clamps & T Clamps etc.,	LS			12000
15	Plinth for PTR and VCBs	LS			177667
	TOTAL				**7708485**
	15% stores overhead charges on items (1) to (12)		7506218		1125933
	5 % Contingencies				385424
	Services	LS			120000
	Works overhead @ 15% on Services				18000
	Contingencies @ 5% on Service cost				6000
	TOTAL ESTIMATE COST				**9363842**

Cost data for erection of 5.0MVA additional PTR with 33KV Bay extension

S.No.	Particulars	Qnty.	Rate	Per.	Amount
1	150 x 150Sq.mm RS Joists	0.8	75000	MT	60000
2	100 x 50Sq.mm Channel	0.5	85400	MT	42700
3	MS Flat 75 x 8mm	0.4	81120	MT	32448
4	AB Switch 800Amps conventional type	1	47760	Each	47760
5	200Sq.mm ACSR Conductor (Panther conductor)	0.05	250000	Km	12500
6	33KV Disc Insulators	6	470	Each	2818
7	33KV Metal Parts	6	350	Each	2100
8	33/11KV 5.0MVA PTR	1	4949761	Each	4949761
9	33KV 3-Ph HG Fuse Set	1	9534	Each	9534
10	CI Earth pipes	4	3500	Each	14000
11	11 KV LV VCB with CRP and CTs	1	357810	Each	357810
12	33 KV LV VCB with CRP and CTs	1	467206	Each	467206
13	Earthing arrangments (20mts length with 75 x 8 MS flat)	LS			12600
14	Miscelleneous items like fabrication of channels & Pad clamps & T Clamps etc.,	LS			12000
15	Plinth for PTR and VCBs	LS			177667
	TOTAL				**6200903**
	15% stores overhead charges on items (1) to (12)		5998636		899795
	5 % Contingencies				310045
	Services	LS			120000
	Works overhead @ 15% on Services				18000
	Contingencies @ 5% on Service cost				6000
	TOTAL ESTIMATE COST				**7554744**