

**Material requirement for Partial Turnkey(Departmental) works And
O&M Works for the year 2008-09**

Sr. NO.	NAME OF MATERIAL	UNIT	Partial Turnkey	O&M Works	Total
GROUP - IX					
1	A.C.S.R. Weasel	Km	20000	2500	22500
2	A.A.C. Ant	Km	25000	2500	27500
3	A.A.C. Gnat	Km	15000	1000	16000
4	A.C.S.R. Dog Conductor 0.1	Km	800	500	1300
5	ACSR Panther	Km	0	50	50
6	All Al.Alloy Cond.34 sq.mm.	Km.	27000	3500	30500
7	All Al. Alloy Cond.55 sq.mm.	Km	10000	1500	11500
8	All Al.Alloy Cond. 100 sq.mm.	Km.	1200	500	1700
9	All Al.Alloy cond.232 sq.mm.	Km	0	0	0
10	G.I.Wire 6 SWG	MT	50	30	80
11	G.I.Wire 8 SWG	MT	800	300	1100
12	G.I. Wire 10 SWG	MT	800	300	1100
13	Barbed Wire	MT	100	50	150
14	G.I. Stay Wire 7/8 SWG	MT	600	300	900
15	G.I.Stay wire 7/10 SWG	MT	500	300	800
16	Strain Hardware for ACSR Weasel or equivalent AAAC	Set	60000	15000	75000
17	Strain Hardware for Dog 0.1 or equivalent AAAC	Set	4000	5000	9000
18	Suspension Hardware for AAAC 100 sq.mm	Set	400	1000	1400
19	Strain Hardware for AAAC 232 sq.mm.	Set	0	0	0
20	Suspension Hardware for AAAC 232 sq.mm.	Set	0	0	0
21	Suspension Hardware for 0.2 ACSR conductor.	Set	200	500	700
22	Strain Hardware for 0.2 ACSR conductor.	Set	100	1000	1100
23	11 kV A.B. switch	Set	5000	1000	6000
24	22 kV A.B.Switch	Set	500	200	700
25	11 kV Horn Gap fuse unit	Set	5000	1000	6000
26	22 kV Horn Gap fuse unit	Set	500	200	700
27	R.S.J. Poles 125 x 70 mm	MT	2000	800	2800
28	R.S.J. Poles 175 x 85 mm	MT	1500	500	2000
29	R.S.J. Poles 100 x 116 mm	MT	1700	800	2500
30	R.S.J. 152 x 152 mm(13.00 Mtr./11.0 Mtr)	MT	600	150	750
GROUP - X					
1	S.P.Meters 5-30A (Static Type)	NO.	500000	300000	800000
2	S.P.Meters 10-60A (Static Type)	No.	70000	20000	90000
3	Three phase static meters 10-40A	No.	0	0	0
4	Three phase static meters (KWH+KVA MD)10-40A	No	250000	50000	300000
5	HT TOD Meters	No.	1000	1500	2500
6	LT CT Operated Electronic Meter 50/5A	No.	5000	5000	10000
7	LT CT Operated Electronic Meter 100/5A	No.	5000	5000	10000
8	CT Operated Metering Cabinet 50/5A	No.	4000	5000	9000
9	CT Operated Metering Cabinet 100/5A	No.	5000	5000	10000
10	Common Meter Reading Instrument	No	0	0	0
11	L.T.Dist.Box 200 KVA	No.	800	200	1000
12	-do- 100 KVA	No	4000	5000	9000
13	-do- 63 KVA	No.	6500	5000	11500

GROUP - XI					
1	11 kV Pin Insulators	No	300000	50000	350000
2	11 kV G.I. Pins	No	300000	50000	350000
3	22 kV Pin Insulator	No	20000	10000	30000
4	22 kV G.I..Pin	No	20000	10000	30000
5	33 kV Pin Insulators	No	10000	15000	25000
6	33 kV G.I Pins	No	10000	15000	25000
7	Disc Insulator 11 KV 4500 KG.	Nos	115000	20000	135000
8	Disc. Insulator 11 KV 7000 kg	Nos	3000	5000	8000
9	Antifog type Disc.Insulators 7000 Kg.for highly polluted area	Nos	0	500	500
10	L.T. Shackle Insulators	Doz	80000	5000	85000
11	L.T. Shackle Hardware	Pair	400000	15000	415000
12	L.T. Stay Insulators	No	250000	20000	270000
13	Stay Sets H.T.	Set	85000	10000	95000
14	Stay Sets L.T	Set	150000	20000	170000
15	Earthing Sets H.T	Set	140000	10000	150000
16	Earthing Sets L.T.	Set	100000	10000	110000
17	W.P. Wire 2.5 mm2 T/C 1100 V Grade	Coil	125000	25000	150000
18	do- 1.5 mm2 T/C 1100 V Grade	Coil	15000	5000	20000
19	do- 4 mm2 T/C 1100 V Grade	Coil	60000	10000	70000
20	do- 10 mm2 T/C 1100 V Grade	Coil	5000	2000	7000
21	L.T. PVC armoured cable 2/C 16 Sq.mm	Km	40	30	70
22	L.T.PVC Armoured cable 4core 16sq.mm.	Km.	40	30	70
23	L.T. PVC armoured cable 3 1/2 C 35 sq.mm.	Km	25	15	40
24	L.T, PVC armoured cable 3 1/2 C 50 sq.mm.	Km	20	15	35
25	L.T.XLPE Armoured cable 70 sq.mm.	Km.	160	60	220
26	L.T.XLPE Armoured cable120 sq.mm.	Km.	150	60	210
27	L.T. XLPE Armoured cable185 sq.mm.	Km.	60	40	100
28	L.T.XLPE Armoured cable240 sq.mm.	Km.	40	25	65
29	L.T.XLPE Armoured cable 300 sq.mm.	Km.	35	30	65
30	L.T.Aerial bunched cable(3x50)	Km.	30	35	65
31	L.T.Aerial bunched cable(3x70)	Km.	60	20	80
32	L.T.Aerial bunched cable(3x120)	Km.	25	10	35
33	XLPE Cable 11 kV 3C 400 sq.mm.	Km.	0	0	0
34	XLPE Cable 11 kV 3C 300 sq.mm.	Km.	15	20	35
35	XLPE Cable 11 kV 3C 240 sq.mm.	Km.	15	15	30
36	XLPE Cable 11 kV 3C 185 sq.mm.	Km.	25	20	45
37	XLPE Cable 11 kV 3C 95 sq.mm.	Km.	20	20	40
38	XLPE Cable 11 kV 3C 35 sq.mm.	Km	10	10	20
39	XLPE Cable 11 kV 3C 50 sq.mm.	Km	10	10	20
40	XLPE Cable 22 kV 3C 300 sq.mm.	Km.	10	15	25
41	XLPE Cable 22 kV 3C 240 sq.mm.	Km.	10	15	25
42	XLPE Cable 22 kV 3C 95 sq.mm.	Km.	4	2	6
43	XLPE Cable 33 kV 3C 300 sq.mm.	Km.	5	5	10
44	Armoured Copper control cable 2Cx2.5 sq.mm.	RMT	5000	5000	10000
45	Un-Armoured Copper control cable 2Cx2.5 sq.mm.	RMT	5000	5000	10000
46	Un-Armoured Copper control cable 4Cx2.5 sq.mm.	RMT	5000	5000	10000
47	Armoured Copper control cable 7Cx2.5 sq.mm.	RMT	1500	2000	3500
48	Un-Armoured Copper control cable 7Cx2.5 sq.mm.	RMT	500	2000	2500
49	Un-Armoured Copper control cable 12Cx2.5sq.mm.	RMT	5000	5000	10000
50	Un-Armoured Copper control cable 19Cx2.5sq.mm.	RMT	5000	5000	10000

GROUP - XII					
1	Dist.Trans. 11/0.43 KV, 15 kVA Single Phase	No.	0	0	0
2	Dist.Trans. 11/0.43 KV, 25 kVA Single Phase	No.	0	0	0
3	Dist.Trans. 11/0.43 KV, 25 kVA (CRGO Core)	No.	100	0	100
4	Dist.Trans. 11/0.43 KV, 63 kVA (CRGO Core)	No	6000	1500	7500
5	Dist Trans. 11/0.433 kV,100 kVA (CRGO Core)	No	4000	2000	6000
6	Dist Trans. 11/0.433 KV 63 kVA (Amorphous Core)	No.	0	0	0
7	Dist Trans. 11/0.433 KV 100 kVA (Amorphous Core)	No.	0	0	0
8	Dist.Trans. 22/0.43 KV 63 KVA	No	600	400	1000
9	Dist.Trans. 22/0.43 KV 100 KVA	No	400	500	900
10	Dist. Trans. 11/0.43 KV OD 200 KVA	No	20	50	70
11	Dist. Trans. 11/0.43 KV OD 200 kVA (Dry type)	No	0	9	9
12	Dist. Trans. 11/0.43 KV OD 315 KVA	No	5	15	20
13	Dist. Trans. 11/0.43 KV OD 315 KVA (Dry type)	No	0	9	9
14	Dist. Trans. 11/0.43 kV ID 315 KVA	No	10	20	30
15	Dist. Trans. 11/0.43 kV ID 315 KVA (Dry type)	No	0	9	9
16	Dist. Trans. 11/0.43 KV OD 630 KVA	No.	6	15	21
17	Dist. Trans. 11/0.43 KV OD 630 KVA (Dry type)	No.	0	9	9
18	Dist. Trans. 11/0.43 kV ID 630 KVA	No	10	20	30
19	Dist. Trans. 11/0.43 KV ID 630 KVA (DryType)	No.	0	9	9
20	Dist.Trans. 22/0.4 kV OD 200 KVA	No	15	30	45
21	Dist.Trans. 22/0.4 kV OD 315 KVA	No	8	15	23
22	Dist.Trans. 22/0.4 kV OD 630 KVA	No	5	15	20
23	Dist.Trans. 22/0.4 kV ID 630 KVA	No	0	10	10
24	L.As. 11 KV (Gapless type) with disconnector	No.	15000	9000	24000
25	L.A.s 22KV (Gapless type) with disconnector	No.	2500	1500	4000
26	11 KV Ring Main Units with vacuum SF6 air break switch & 2 Isolator for the same	Set	0	30	30
27	Capacitor banks without Switchgear 11 KV 0.6 MVAR	Set	0	100	100
28	Automatic capacitor switch 11 KV	No.	0	100	100
29	33 KV ONLOAD load break switch	Set	0	0	0
30	Kit Kat fuses 415 V 100 A	No	0	9000	9000
31	Kit Kat fuses 415 V 200 A	No	0	60000	60000
32	Single pole MCB with encloser 10 A	No	100000	120000	220000
33	Single pole MCB with encloser 20 A	No	0	0	0
34	Single pole MCB with encloser 32 A	No	400000	100000	500000
35	Single pole MCB with encloser 40 A	No	0	0	0
36	11KV metering cubical with ratio 100/5A CTs & PTs but without meter	Set	0	0	0
37	-do- with ratio 50/5A	Set	5	10	15
38	-do- with ratio 25/5A	Set	15	20	35
39	-do- with ratio 10/5A	Set	20	20	40
40	-do- with ratio 5/5A	Set	20	50	70
41	22KV metering cubical with ratio 50/5A CTs & PTs but without meter	Set	0	0	0
42	-do- with ratio 25/5A	Set	5	10	15
43	-do- with ratio 10/5A	Set	10	20	30
44	-do- with ratio 5/5A	Set	10	20	30
45	Transformer Oil	KL	0	30	40
46	22 KV Ring Main Units with vacuum SF6 air break switch & 2 Isolator for the same	Set	0	5500	5500

GROUP - XIII					
1	Isolator with EB 33 KV 800 A	Set	30	20	50
2	Isolator without EB 33 KV 800 A	Set	50	40	90
3	A.C.Distribution Board 'B' type	No.	22	10	32
4	C&R Panels for 33 KV line breakers	Set	30	10	40
	with 1 Amp. relays with double feeder provision				0
5	C&R Panels for 33 KV Transformers	Set	30	10	40
	with 1 Amps. relays				0
6	33 KV VCB 1600 A	No.	30	10	40
7	C&R Panels with differential Protection				0
	for 33 KV transformers	Set	0	0	0
8	11kV 250 MVA OD switchgear comprising				0
	of one incomer and 3 single feeders with				0
	associated o.d.panels	set	20	10	30
9	33 kV Current Trans.400-200-100/1-1-1 A -3 core for protection	No.	63	50	113
10	33 kV P.T. for sub-station	No.	63	50	113
11	33 kV C.T.400-200/5-5A (for Protection)	No.	0	0	0
12	30 V, 100 AH Lead Acid Battery sets	Sets	10	8	18
13	Battery chargers suitable for above	No.	10	8	18
14	LAs 33 KV (Station Type)	No.	63	60	123
15	11 kV Indoor type Switchgear & C&R Panel with 11 CB(2+1+8) 500 MVA	Set	0	0	0
16	22 kV Indoor type Switchgear & C&R Panel with 11 CB(2+1+8) 500 MVA	Set	0	0	0
17	Power Trans.33/11 KV 5 MVA	No.	21	8	29
18	Power Trans.22/11 KV 10 MVA(DZ)	No.	0	0	0
19	Power Trans.22/11 KV 10 MVA (Dy 11)	No.	0	0	0
20	Power Trans.33/11 KV 10 MVA	No.	0	2	2
21	Power Trans.33/22 KV 5 MVA	No.	0	0	0