

COST DATA 2012-2013

Sl.No.	Description	Old Rate Rs.	New Rate Rs.
(1)	(2)	(3)	(4)
I	(SS)Sub-Station type (Centre rotating)		
	11 KV AB switch	18789	29153.75
	22 KV / 33 KV AB switch	17552	25679.30
	11 KV LAS	2563	2287.61
	22 KV LAS	3845	3231.40
	33 KV LAS	4427	3095.41
	110 KV LAS	30849	26382.62
	230 KV LAS		46352.39
	400 KV LAS		107942.99
	110 KV AB switch without earthing blades (1250 A)	82429	61827.33
	110 KV AB switch with earthing blades (1250 A)	108101	85402.37
	110 KV AB switch without earthing blades (1600 A)*	229389	252327.9
	110 KV AB switch with earthing blades (1600 A)*	252805	278085.5
	230 KV AB switch without earthing blades (1250 A)*	207759	228534.9
	230 KV AB switch with earthing blades (1250 A)*	250370	275407
	230 KV AB switch without earthing blades (1600 A)*	354404	389844.4
	230 KV AB switch with earthing blades (1600 A)*	386463	252327.9
	Aluminium bus bar pipe 50 mm	330452	257718
	Aluminium bus bar pipe 75 mm	344969	263343
	110 KV*	36486	40134.6
	230 KV*	60790	66869
	400 KV*	141626	155788.6
	Kundha 42/3.6mm+7/1.94mm*	216637	40134.6
	Panther 30/3.00 mm Alu+ 7/3.00 mm steel	190548	136574.39
	Zebra 54/3.18mm+7/3.18mm*	234301	257731.1
	Moose 54/3.53mm+7/3.53mm*	393771	433148.1
	19/2.97 Sq mm*	46061	50667.1
	HT GS Earth wire 7/3.55mm		66711.00
	11 KV, 120 KN Ordinary Disc Insulators		505.63
	11 KV, 90 KN Ordinary Disc Insulators		402.89
	11 KV, 90 KN Antifog Disc Insulators		540.52
A	Sub-Stations Control Room (Only building)		
	230 KV SS*	9928600	10921460
	110 KV SS*	2707100	2977810
	33 KV SS*	1672000	1839200
B	Quarters		
	2P Type*	1098075	1207883
	2Q Type*	1288408	1417249
	2R Type*	1288408	1417249
	2S Type*	1756920	1932612
III	Power Transformers		
A	Outdoor type		
	230/110 KV, 100 MVA auto	45299866	44098566.00
	110/33 KV, 50 MVA	37283417	21189084.00
	110/33-22 KV, 25 MVA	19638627	11324,274.00
	110/33-11 KV, 16 MVA	9132970	9551195.00
	110/33-11 KV, 10 MVA	7594165	7070187.00
	110/22-11 KV, 16 MVA	9132970	9551195.00
	110/22-11 KV, 10 MVA	7594165	7070187.00
	110/11 KV, 16 MVA	9132970	9551195.00
	110/11 KV, 10 MVA	7594165	7070187.00
	33/11 KV, 16 MVA		7924820.00
	33/11 KV, 8 MVA	4179759	4043573.00
B	Indoor type		
	33/11 KV 8 MVA*	6519985	7171984
	33/11 KV 5 MVA*	1628606	1791467
	33/11 KV 16 MVA	7514989	7924820.00
III	Switch Gears		
A	Breakers without C.T.		
	400 KV SF6,40 KA*	4610895	5071985
	230 KV SF6,40 KA Outdoor	1757638	1206468.54
	Erection and Commissioningcharges	16298	2757.50
	110 KV SF6 (outdoor),40 KA	888620	489056.54
	Erection and Commissioningcharges*	7469	8215.9
	33 KV SF6 (outdoor)*	498291	548120.1
	33 KV SF6 (indoor)*	518385	570223.5
	33 KV VCB (outdoor) 1250A, 25KA with TC	285267	175609.26
	33 KV VCB (indoor)1250A ,25KA,with CT ratio 600/300/ 1A-Suitable for feeders	875288	582569.41

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	33 KV VCB (indoor)1250A ,25KA,with CT ratio 600/300/150A / 1A -Transformer side	984928	630285.19
	33 KV VCB (indoor)1250A ,25KA,with CT ratio 1000/500A / 1 - 1 - 0.577A - Transformer side	956931	
	33 KV VCB (indoor)1250A ,25KA,with CT ratio 600/300A / 1 - 1 A - Bus Coupler side	1035579	780449.31
	33 KV VCB (indoor)1250A ,25KA,with CT ratio 600/300A / 1 - 1 A - Bus Coupler side	1033869	780449.31
	22 KV VCB (indoor)	837595	
	11 KV VCB (outdoor),1250A ,25KA	99273	97047.74
	11 KV VCB (indoor) 1250 A, 25KA (FEEDER PANEL)	603037	289221.20
	11 KV Auto reclosure	344161	
	11 KV VCB (indoor) 1250 A, 25KA (BUS COUPLER)	670674	372608.00
	11 KV VCB (indoor) 1250 A, 25KA (TRANSFORMER PANEL)	677117	343654.25
	SF6 gas 50 kg	793	47175.00
IV	Earthing, Yard lighting and Painting		
	230 KV SS*	1270789	1397868
	110 KV SS*	346518	381169.8
	33 KV SS*	112736	124009.6
	Panels		
A	Control and metering cubicles (Each)		
	33 KV*	682052	750257.2
	33 KV Indoor VCB Panels for feeders Control*	790890	869979
	33 KV Indoor Transformer Panels*	804568	885024.8
	33 KV Indoor Bus Couplor*	833366	916702.6
	22 KV*	595245	654769.5
	11 KV*	283450	311795
	11 KV Indoor VCB Panels for feeders Control*	502253	552478.3
	11 KV Indoor VCB Panels for Transformer Control*	576495	634144.5
	11 KV Indoor VCB Panels for Bus Coupler Control*	561427	617569.7
C	AC Panels (Each)		
	230 KV SS*	133222	146544.2
	110 KV SS*	110101	121111.1
	33 KV SS*	102373	112610.3
D	DC Panels (Each)		
	220V DC*	91027	100129.7
	110V DC Distribution Panel for 110KV OR 230KV SS*	69718	76689.8
	110V DC indoor Control & Relay Panel for GC Breaker	37648	37216
	110V DC indoor Control & Relay Panel for LV Breaker	71694	70942
	110V DC indoor Control & Relay Panel for Twin feeder	58073	55812
	110V DC out door Control & Relay Panel	33214	33214
	110 V DC annunciator Type A	60503	60503
	110 V DC annunciator Type B	51556	51556
	30V,DC Annunciator Panel*	101608	111768.8
E	Control & Relay (C&R) Panel		
	400 KVFeeder Relay Panel	665396	1042000
	400 KVFeeder control Panel	112473	137000
	400 /230 KV Auto Tr. Relay Panel	671029	700000
	400 /110 KV Aut Tr. Relay Panel	671029	700000
	400 KV Tie breaker Panel for lines	296160	307000
	400 KV Tie breaker Panel for Transformer	296160	307000
	400 KV Busbar protection Relay Panel	1348392	1400000
	230 KV Feeder Control panel*	145418	159959.8
	230 KV feeder panel with U/F Relay	729488	756000
	230 KV feeder panel without U/F Relay	665396	690000
	230 KV Feeder Relay panel	145418	756000
	230/110 KV auto Tr.control panel*	121882	134070.2
	230/110 KV auto Tr.relay panel*	510611	561672.1
	230 KV Busbar protection relay panel	1348392	1400000
	230 KV Tr.C&R panel	204270	344937
	230 or 110 KV Marshalling box for bus bar protection*	61090	67199
	230 KV Bus Coupler C&R panel*	344937	379430.7
	110 KV busbar protection relay panel*	1483231	1631554
	110 KV Double feeder control panel*	208427	229269.7
	110 KV Feeder control panel*	103402	113742.2
	110 KV feeder relay panel	422672	440000
	110/11 KV Pr.Tr.control panel*	207592	228351.2
	110/11 KV Pr.Tr.relay panel*	469960	516956

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	110 KV bus coupler C&R panel*	173984	191382.4
	110/11 KV Pr.Tr. GC C&R panel*	287854	316639.4
	110/11 Kv Pr.Tr.LV C&R panel*	538688	592556.8
	110 KV C&R (complete protection) panel*	1061715	1167887
	30 V , Outdoor C&R panel*	68692	75561.2
	33 KV relay (indoor) panel*	790890	869979
	33 KV relay (indoor) panel*	60180	66198
	22 KV C&R (2 feeder) panel*	230303	253333.3
	11 KV C&R (2 feeder) panel*	343472	377819.2
	11 KV C&R (3 feeder) panel*	682052	750257.2
	11 KV O/DVCB Panel (Transformer control)*	258804	284684.4
	11 KV O/DVCB Panel (Bus Couplor control)*	324185	356603.5
	11 KV O/DVCB Panel (Feeder control)*	219350	241285
	Relay testing kit*	1352702	1487972
	Simplex100 window annunciator panel,110V*	120803	132883.3
	Sub-station automation system for 230KV/110KV SS (Upto 14 Electrical bays)		650000
	Sub-station automation system for 400KV/230KV/110KV SS (Upto 17 Electrical bays)		780000
F	Capacitor bank with associated equipments		
	110 KV/MVAR*	379592	417551.2
	33 KV/MVAR*	566015	622616.5
	22 KV/MVAR*	1053918	1159310
	11 KV/MVAR*	753196	828515.6
	11 KV RVT*	29497	32446.7
	11 KV NCT*	12640	13904
VI	Current Transformers (CT)		
	400 kv CT 2000/1000/500/1A*	954494	1049943
	230 KV (1600-1200-600-300/1A) Outdoor CT with TC 5 Core Junction box	461898	251262.60
	110 KV (1200-600-300/1A) Outdoor CT with TC Junction box	11250	7124.29
	110 KV (600-300-150/1A) 5 core Junction box	138686	126077.95
	110 KV (400-200-100/1A) 5 core* Junction box*	6315	5741.05
	33 KV (1200-600-300 /1A) Out door type	118874	108066.82
	33 KV outdoor type(600-300-150/1A)	6315	5741.05
	11 KV (1200-600/1A) Oil filled	181825	200007.5
	11 KV (400-200/1A) Oil filled(Out Door)	10027	11029.7
	11 KV (400-200/1A) Oil filled(In Door)*	44429	21429.55
	110 KV , 300/200/150/100 Metering	18688	19915.75
	110 KV 100/5A Metering*	16865	16325.82
	400 KV CVT*	16078	15851.43
	230 KV CVT*	13749	15123.9
	110 KV CVT*	97777	81674.94
		94607	104067.7
		601120	661232
		280185	308203.5
		248290	273119
VII	(PT) Potential Transformers		
	230 KV Outdoor PT with 2 Nos.Terminal Connectors Junction box	408416	249262.61
	110 KV Outdoor PT with T.C. Junction box	6750	6750.36
	33 KV Out door PTs with TCs	126315	90679.60
	33 KV In door PTs*	7854	5790.75
	22 KV	17511	22889.04
	11 KV	52600	57860
		19565	22224.70
		25102	23551.20
VIII	Battery and Charger per Each		
A	Battery Set inclusive of insulators, Hydrometer, voltmeter, acid etc.		
	220V, 300 Amphere Hour (AH)	490333	558716
	220V, 535 AH		991755
	220V,60 AH*	421368	463504.8
	110V, 300AH with stand	222595	282116
	110V, 300AH without stand*	207937	228730.7
	110V, 120AH With stand	99981	198984
	110V, 120AH Without stand*	81419	89560.9
	110V, 64AH*	27157	29872.7
	48V,400AH	131845	124370
	48V, 250AH	86084	80610
	48V, 200AH*	75285	82813.5
	48V, 120AH	40946	38650

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(1)	(2)	(3)	(4)
	48V, 80AH*	92282	101510.2
	48V, 64 AH*	37348	41082.8
	48V, 16.5AH*	30600	33660
	30V, 60AH,with stand*	17315	19046.5
	30V, 60AH,without stand*	16918	18609.8
	30V, 64AH,with stand*	18018	19819.8
	30V, 64AH, without stand*	15730	17303
	30V, 25AH CAD/NICK*	41446	45590.6
	30V, 12 AH CAD/NICK*	19276	21203.6
	12V, 88AH*	5665	6231.5
	12V, 60AH*	4038	4441.8
B	Chargers		
	220V, 60A	105830	390581
	110V, 60A	75559	245136
	110V, 24A	36314	136636
	48 V/120 A*	95524	105076.4
	48V, 80A	60840	97650
	48V, 40A*	48672	53539.2
	48v/20 A*	27879	30666.9
	48V, 27A*	44696	49165.6
	48V ,16A*	36694	40363.4
	30V ,12A*	22260	24486
IX	Carrier Communication (C.C.) Equipments		
A	400 KV Outdoor		
	CVT*	546473	601120.3
	Wave Trap (1.0mH/2000 A)*	331004	364104.4
	Solid core supporting Insulator*	150030	165033
	Galvanized steel structure*	91858	101043.8
	Coupling Device*	51628	56790.8
B	230 KV Outdoor		
	CVT*	254714	280185.4
	Wave Trap (0.5mH/1250 A)*	151635	166798.5
	Solid core supporting Insulator*	58144	63958.4
	Galvanized steel structure*	22280	24508
	Coupling Device*	63753	70128.3
	Co-Oxial cable (1.2 mm/km)*	70785	77863.5
C	110 KV Outdoor		
	CVT*	248290	273119
	Wave Trap (0.5mH/630 A)*	223803	246183.3
	Coupling Device*	70128	77140.8
	Co-Oxial cable (1.2 mm/km)*	70785	77863.5
	Numerical Distance Protection Relay*	133332	146665.2
	Numerical Directional O/C,E/F Relay*	83804	92184.4
	Nueneriacal U/F Relay*	27101	29811.1
	Digital Frequency Meter (2"x125")*	4692	5161.2
	Digital Frequency Meter (4"x3")*	6273	6900.3
	Static HT Trivector meter (110/1A,3PH,4 WIRE)*	2927	3219.7
	Lamp for vedio Protection system*	48920	53812
	OPGW - 12 Fibre DWSM cable,Accessories with Erection*	203530	223883
	ADSS - 12 Fibre DWSM Cable, Accessories with Erection*	133038	146341.8
	Optical Time Domain Reflecto meter*	364320	400752
D	110 KV Indoor		
	40 W Single Channel Carrier set*	149647	164611.7
	Coupling Device*	201024	221126.4
	Multi Core cable 0.6mm 1 pair*	76835	84518.5
	Multi Core cable 0.6mm 4 pair*	21780	23958
	Muti function Transducers*	8893	9782.3
	Protection Couplor*	166135	182748.5
X	Substation Structures		
	230 KV Side*	16156051	17771656
	110 KV Side*	4586868	5045555
	66 KV Side*	789735	868708.5
	33 KV Side*	754012	829413.2
	22 KV Side*	412511	453762.1
	11KV Side*	207171	227888.1
A	Control Cables per Km Armoured (Copper, Multistranded)		
	2x2.5 Sq.mm	42821	47927
	4x2.5 Sq.mm	77074	79467
	8x2.5 Sq.mm	95290	134129
	10x2.5 Sq.mm*	125244	137768.4

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(1)	(2)	(3)	(4)
	14x2.5 Sq.mm	245340	227892
	20x2.5 Sq.mm	163552	271827
	4x4 Sq.mm	91636	116403
	8x4 Sq.mm	224335	199881
	28x 2.5 Sq.mm	299844	
B	Armoured (Aluminium, Multistranded)		
	4x2.5 Sq.mm*	43751	48126.1
	4x4 Sq.mm*	54043	59447.3
	110 KV 400 Sq.mm single core cable*	4621509	5083660
	110 kv 1x630 Sq.mm single core cable*	7562157	8318373
	110 kv 1x240 Sq.mm single core cable*	6801531	7481684
	230 KV 1x1200sqmm single core cable*	9557247	10512972
C	(Extra High Tension (110 KV)		
	Straight joint without insulating flange*	494797	544276.7
	Straight joint with insulating flange*	531082	584190.2
D	Extra High Tension (230 KV)		
	230 kv straight through joint*	1016154	1117769
	230 kv insulated joint*	1084076	1192484
	230 kv termination structure*	54245	59669.5
	1 phase link box with CCPU(cable coupling protection unit)*	40682	44750.2
	3 phase link box with CCPU(cable coupling protection unit)*	116237	127860.7
	240 sqmm co-oxial cable*	3710372	4081409
	240 sqmm sheath bounding cable*	1998438	2198282
	110 kv straight joint*	234801	258281.1
	sheath seperation kit*	121087	133195.7
	110 kv outdoor termination kit*	731081	804189.1
	110 kv indoor termination kit*	731081	804189.1
	110 kv Termination structure*	94593	104052.3
	3 ph link box with CCPU(cable coupling protection unit)*	282172	310389.2
	3 ph link box without CCPU(cable coupling protection unit)*	314237	345660.7
	1 ph link box without CCPU(cable coupling protection unit)*	134673	148140.3
	1 ph link box with CCPU(cable coupling protection unit)*	160325	176357.5
	Shrath bonding cable*	1700728	1870801
	110 KV RCC cover slab*	105	115.5
E	Pre-Moulded Denson kit		
	110KV 1x240Sqmm*	1004121	1104533
	230KV 1200Sqmm*	1486269	1634896
F	Push on Outdoor termination for 110 KV single core		
	400 Sq.mm*	521706	573876.6
	230 kv out door termination kit*	1860551	2046606
G	Push on		
	Outdoor termination structure for 110 KV*	95223	104745.3
	Outdoor termination structure for 230 KV*	54245	59669.5
	230 kv indoor termination kit*	1095711	1205282
1	M.S.Flat 50x8mm*	42900	47190
2	M.S.Flat 50x6 mm*	37440	41184
3	ST Fittings Panther*	1340	1474
4	ST Fittings Leopared*	1126	1238.6
5	ST Fittings Zebra*	1612	1773.2
6	ST Fittings Dog*	1126	1238.6
7	ST Fitting for 7/3.55 mm steel earth wire*	281	309.1
8	ST Fitting for 7/3.15 mm steel earth wire*	259	284.9
9	Spacer Clamp for Zebra*	217	238.7
10	SE Clamp for Zebra*	307	337.7
11	Seating block for 75 mm Bus bar pipe*	346	380.6
12	Free end clamp for 75 mm Bus bar pipe*	265	291.5
13	Free end clamp for 50 mm Bus bar pipe*	140	154
14	75x16 mm GI Bolts & Nuts*	63700	70070
15	50x16 mm GI Bolt & Nuts*	70500	77550
16	45x16 mm GI Bolt & Nuts*	64865	71351.5
17	40x16 mm GI Bolt & Nuts*	65730	72303
18	35x16 mm GI Bolt & Nuts*	70543	77597.3
19	30x16 mm GI Bolt & Nuts*	70500	77550
20	30x10 mm GI Bolt & Nuts*	70500	77550
21	GI.Step bolt & nut 175x16 mm*	62775	69052.5
22	GI U Bolts Nuts 16 mm dia*	73840	81224
23	G.I.Spring washer 16 mm*	61360	67496
24	G.I.Spring washer 12 mm*	80000	88000
25	G.I.Spring washer 10 mm*	80000	88000
26	G.I.Spring washer 16 mm (nurling type)*	62085	68293.5

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(1)	(2)	(3)	(4)
27	G.I.packing washer 16 mm (40x40x5 mm)*	69000	75900
28	Switch end clamp for 75 mm bus bar pipe*	398	437.8
29	Switch end clamp for 50 mm bus bar pipe*	385	423.5
30	Switch end clamp for Mink ACSR*	273	300.3
31	T Clamp for Zebra to Zebra*	509	559.9
32	T Clamp for 50mm bus to Zebra*	564	620.4
33	T Clamp for 75 mm bus to Zebra*	644	708.4
34	Switch End Clamp for Zebra*	308	338.8
35	Anti Corrosive black paint*	68	74.8
36	Red Oxide Paint*	54	59.4
37	Alumium paint*	105	115.5
38	6 bolt Tension fitting for Zebra*	957	1052.7
39	4 bolt Tension itting for Zebra*	874	961.4
40	PA Rod for Panther conductor*	520	572
41	4.7 mts long Tubular yard light pole*	2036	2239.6
42	6 mtr long tubular yard light pole*	3427	3769.7
43	5.5 mtr long stepped tubular pole for yard light*	3940	4334
44	8.0 mtr long stepped tubular pole for yard light*	4950	5445
45	12V 11 P 175 AH battery*	3240	3564
46	12V 13 P 88 AH battery*	4705	5175.5
47	12 V,21 Plate 150 AH Battery*	6315	6946.5
48	12V 25 P 180 AH New Vehicle battery*	6632	7295.2
49	12V 26 AH battery*	1800	1980
50	Fire Extingusher DCP Type 5 kg*	1575	1732.5
51	Fire Extingusher DCP Type 10 kg*	2081	2289.1
52	Fire Extingusher DCP Type 25 kg (Trolley mounted)*	10575	11632.5
53	Fire Extingusher Foam Type 9 ltrs*	1575	1732.5
54	Fire Extingusher Foam Type 50 ltrs*	7200	7920
55	GI Earth pipe 3 mtr length(25 mm dia)*	442	486.2
56	S.B Damper for Panther*	602	662.2
57	S.B Damper for Zebra*	900	990
58	Corona bell 75 mm*	81	89.1
59	Corona bell 50 mm*	56	61.6
60	31/2x95 sq.mm Armoured Aluminum cable*	318	349.8
61	2x16 sq.mm Armoured Aluminum cable*	165	181.5
62	Winding temperature indicator*	10400	11440
63	Oil temperature indicator*	9980	10978
64	Silicagel breather 5 kg capacity flange type*	4999	5498.9
65	1X40 W FTL fitting with tube lght.*	534	587.4
66	250 W SV Lamp*	279	306.9
67	250 W SV Lamp fitting*	1445	1589.5
68	Megger battery operated 2500V, 20000 Mohm*	4108	4518.8
69	Earth Megger(Digital 0-50-500 ohm)*	4160	4576
70	Digital Multi meter*	1420	1562
71	HD GI Eye bolt 16 mm*	73	80.3
72	HD GI Hanger Rod 20 mm*	140	154
* No recent order			
10% Increase has been added for materials for which there is no recent purchase order.			