

RDA-RAIPUR STP PROJECT

O&M SPARES LIST FOR 10 YEARS FOR 6 STPs

Sl.no	Item description	Spare Qty for 10 YEARS for 6 Nos. STP	Qty for 10 YEARS of STP-1 (7.4 MLD)	Qty for 10 YEARS of STP-2 (4.33 MLD)	Qty for 10 YEARS of STP-3 (7.05 MLD)	Qty for 10 YEARS of STP-4 (1.79 MLD)	Qty for 10 YEARS of STP-5 (.872 MLD)	Qty for 10 YEARS of STP-6 (3.98 MLD)	Units
A	Transformer								
1	Set of Gaskets	36	6	6	6	6	6	6	Set
2	Explosion Vent Diaphragm (Double diaphragm type)	24	4	4	4	4	4	4	No's
3	Silica Gel	60	10	10	10	10	10	10	Kg
4	Transformer Oil (1 drum of 210 Ltrs)	12	2	2	2	2	2	2	No's
5	Silica Gel Breather	6	1	1	1	1	1	1	No's
5	HV Bushing (Complete with gasket & metal parts)	6	1	1	1	1	1	1	No's
6	LV Bushing (Complete with gasket & metal parts)	6	1	1	1	1	1	1	No's
7	PRV	6	1	1	1	1	1	1	No's
8	Buchholz	6	1	1	1	1	1	1	No's
9	MOLG	6	1	1	1	1	1	1	No's
10	OTI (Complete with CCU & PT100 Sensor etc)	6	1	1	1	1	1	1	No's
11	WTI (Complete with CCU & PT100 Sensor etc)	6	1	1	1	1	1	1	No's
12	Set of valves	6	1	1	1	1	1	1	Set
13	Prismatic Oil level Gauge	6	1	1	1	1	1	1	Set
B	Illumination system								
1	63A TPN MCB	6	1	1	1	1	1	1	Nos
2	32A TPN MCB	12	2	2	2	2	2	2	Nos
3	16A SPN MCB	12	2	2	2	2	2	2	Nos
4	20A SPN MCB	12	2	2	2	2	2	2	Nos
5	32A DP MCB	6	1	1	1	1	1	1	Nos
6	32A FP MCB	6	1	1	1	1	1	1	Nos
7	6A SPN MCB	24	4	4	4	4	4	4	Nos
8	63A FP RCCB (100mA)	6	1	1	1	1	1	1	Nos
9	40A FP RCCB (100mA)	6	1	1	1	1	1	1	Nos
10	40A DP RCCB (100mA)	6	1	1	1	1	1	1	Nos
11	63A FP RCBO (100mA)	6	1	1	1	1	1	1	Nos
12	16A/20A 1-way Modular PIANO TYPE SWITCH (1 Module)	12	2	2	2	2	2	2	Nos
13	6A/10A 1-way Modular PIANO TYPE SWITCH	54	9	9	9	9	9	9	Nos
14	6A/10A Modular socket	12	2	2	2	2	2	2	Nos
15	16A/20A Modular socket 6-Pin	12	2	2	2	2	2	2	Nos
16	Fan Electronic Step regulator 100W (2 Module)	6	1	1	1	1	1	1	Nos
17	20A SP MCB for modular switchboard	6	1	1	1	1	1	1	Nos
18	16A Fuse for modular switch socket	24	4	4	4	4	4	4	Nos
19	Blanking plate for modular switch	24	4	4	4	4	4	4	Nos
20	Electronic ballast including capacitor ignitor etc for 2x28W T5 FTL Fixture	270	45	45	45	45	45	45	Nos
21	Electronic ballast including capacitor ignitor etc for 2x36W FTL Fixture	216	36	36	36	36	36	36	Nos
22	Ballast including capacitor ignitor etc for 150W HPSV Street lighting fixture	210	35	35	35	35	35	35	Nos
23	Ballast including capacitor ignitor etc for 70W HPSV Street lighting fixture	138	23	23	23	23	23	23	Nos
24	9W CFL Lamp	168	28	28	28	28	28	28	Nos

25	28W T5 Fluorescent Tube Lamp	810	135	135	135	135	135	135	Nos
26	36W Fluorescent Tube Lamp	540	90	90	90	90	90	90	Nos
27	150W HPSV Tubular lamp	210	35	35	35	35	35	35	Nos
28	70W HPSV Tubular lamp	138	23	23	23	23	23	23	Nos
29	Surface mounted Bulkhead Lighting Fixture suitable for 10W CFL lamp.	6	1	1	1	1	1	1	Nos
30	Industrial type general purpose FTL luminaire suitable for 2x28W T5 Fluorescent tube lamp with high efficiency electronic ballast, MS sheet steel housing(CRCA) and vitreous enamelled external reflector, suitable for surface /suspension mounting through down conduit.	12	2	2	2	2	2	2	Nos
31	Industrial corrosion resistant FTL luminaire suitable for 2X36W T5 Fluorescent tube lamp with high efficiency electronic ballast, Polycarbonate /GRP/FRP body, cover and SS toggles etc, suitable for surface /suspension mounting through down conduit.	12	2	2	2	2	2	2	Nos
32	Decorative mirror optic surface mounted FTL fixture suitable for 2x28W T5 FTL lamp. Fixture shall have anodised aluminium mirror optic reflector and anodised crossed louver assembly, suitable for surface /suspension mounting through down conduit.	12	2	2	2	2	2	2	Nos
33	Decorative Bracket Light holder suitable for 9W CFL Lamp with all mounting accessories suit to fitting the holder to concealed PVC round JB.	6	1	1	1	1	1	1	Nos
34	150W HPSV Street Light luminaire (semi-cut off type) with single piece die cast aluminium body , electrochemically brightened and anodised/Glaskote finish aluminium reflector, acrylic or prismatic cover with copper wound ballast, power factor improvement capacitor, ignitor etc.	12	2	2	2	2	2	2	Nos
35	70W HPSV Street Light luminaire (semi-cut off type) with single piece die cast aluminium body, electrochemically brightened and anodised/Glaskote finish aluminium reflector, acrylic or prismatic cover with copper wound ballast, power factor improvement capacitor, ignitor etc.	12	2	2	2	2	2	2	Nos
36	1Cx2.5sq.mm. Cu. multistrand 1.1kV unseathed PVC insulated flexible wire (Red colour)	360	60	60	60	60	60	60	Mtrs
37	1Cx2.5sq.mm. Cu. multistrand 1.1kV unseathed PVC insulated flexible wire (Yellow colour)	360	60	60	60	60	60	60	Mtrs
38	1Cx2.5sq.mm. Cu. multistrand 1.1kV unseathed PVC insulated flexible wire (blue colour)	360	60	60	60	60	60	60	Mtrs
39	1Cx2.5sq.mm. Cu. multistrand 1.1kV unseathed PVC insulated flexible wire (Black colour)	360	60	60	60	60	60	60	Mtrs
40	1Cx2.5sq.mm. Cu. multistrand 1.1kV unseathed PVC insulated flexible wire (Green colour)	360	60	60	60	60	60	60	Mtrs
41	1Cx4sq.mm. Cu. multistrand 1.1kV unseathed PVC insulated flexible wire (Red colour)	360	60	60	60	60	60	60	Mtrs
42	1Cx4sq.mm. Cu. multistrand 1.1kV unseathed PVC insulated flexible wire (Yellow colour)	360	60	60	60	60	60	60	Mtrs
43	1Cx4sq.mm. Cu. multistrand 1.1kV unseathed PVC insulated flexible wire (blue colour)	360	60	60	60	60	60	60	Mtrs
44	1Cx4sq.mm. Cu. multistrand 1.1kV unseathed PVC insulated flexible wire (Black colour)	360	60	60	60	60	60	60	Mtrs
45	1Cx4sq.mm. Cu. multistrand 1.1kV unseathed PVC insulated flexible wire (Green colour)	360	60	60	60	60	60	60	Mtrs
46	Aluminium Paint for Street Light Poles	72	12	12	12	12	12	12	Ltrs

47	Epoxy Paint forJunction Boxes (631 of IS:5)	24	4	4	4	4	4	4	Ltrs
48	Terminals 35Sqmm (Bolt type)	36	6	6	6	6	6	6	Nos
49	Terminals 6Sqmm (Bolt type)	36	6	6	6	6	6	6	Nos
50	Terminals 10Sqmm (Bolt type)	18	3	3	3	3	3	3	Nos
51	Terminals 35Sqmm (Screw Clamp type)	24	4	4	4	4	4	4	Nos
52	Terminals 6Sqmm (Screw Clamp type)	72	12	12	12	12	12	12	Nos
53	Tinned Cu Cable Lug 35 SQmm Ring type	72	12	12	12	12	12	12	Nos
54	Tinned Cu Cable Lug 10 SQmm Ring type	72	12	12	12	12	12	12	Nos
55	Tinned Cu Cable Lug 6 SQmm Ring type	72	12	12	12	12	12	12	Nos
56	Tinned Cu Cable Lug 35 SQmm Pin type	72	12	12	12	12	12	12	Nos
57	Tinned Cu Cable Lug 6 SQmm Pin type	72	12	12	12	12	12	12	Nos
C	DGSet								
1	AMC for DG sets (6 Nos)	6	1	1	1	1	1	1	Set
4	High speed diesel oil	--							Liters/ per ho
D	415V LT SWITCHGEAR								
1	Indication lamps - RED	30	5	5	5	5	5	5	Nos
2	Indication lamps - YELLOW	30	5	5	5	5	5	5	Nos
3	Indication lamps - BLUE	30	5	5	5	5	5	5	Nos
4	Indication lamps - GREEN	30	5	5	5	5	5	5	Nos
5	Indication lamps - AMBER	30	5	5	5	5	5	5	Nos
6	MCCB(500A, 4P) including (Aux Contacts,Spreader terminals, Operating Handle,Key Lock etc)	5	1	1	1		1	1	Nos
7	MCCB(300A, 4P) including (Aux Contacts,Spreader terminals, Operating Handle,Key Lock etc)	4	1		1	1	1		Nos
8	MCCB(200A, 4P)including (Aux Contacts,Spreader terminals, Operating Handle,Key Lock etc)	3		1			1	1	Nos
9	MCCB(160A, 3P) including (Aux Contacts,Spreader terminals, Operating Handle,Key Lock etc)	3	1		1		1		Nos
10	MCCB(125A, 3P) including (Aux Contacts,Spreader terminals, Operating Handle,Key Lock etc)	5	1	1	1		1	1	Nos
11	MCCB(100A, 3P) including (Aux Contacts,Spreader terminals, Operating Handle,Key Lock etc)	5	1	1	1		1	1	Nos
12	MCCB(100A, 4P) including (Aux Contacts,Spreader terminals, Operating Handle,Key Lock etc)	4	1		1	1	1		Nos
13	MCCB(63A, 3P) including (Aux Contacts,Spreader terminals, Operating Handle,Key Lock etc)	6	1	1	1	1	1	1	Nos
14	MCCB(63A, 4P) including (Aux Contacts,Spreader terminals, Operating Handle,Key Lock etc)	4		1		1	1	1	Nos
15	MCCB(40A, 3P) including (Aux Contacts,Spreader terminals, Operating Handle,Key Lock etc)	2				1	1		Nos
16	MCCB(32A, 3P) including (Aux Contacts,Spreader terminals, Operating Handle,Key Lock etc)	6	1	1	1	1	1	1	Nos
17	MCB(100, 3P)	3	1		1		1		Nos
18	MCB(63A, 3P)	12	2	2	2	2	2	2	Nos
19	MCB(32A, DP)	12	2	2	2	2	2	2	Nos
20	MCB(32A,3P)	12	2	2	2	2	2	2	Nos
21	MCB(16A, 3P)	30	5	5	5	5	5	5	Nos
22	MCB(16A, DP)	30	5	5	5	5	5	5	Nos
23	MCB(6A, 3P)	12	2	2	2	2	2	2	Nos
24	MCB(6A, SP)	12	2	2	2	2	2	2	Nos
25	MCB(2A, 4P)	12	2	2	2	2	2	2	Nos

26	MCB(2A, SP)	12	2	2	2	2	2	2	Nos
27	MPCB(6A, 3P) with Add on Module (Aux Contact, Trip Alarm Contact, Short Circuit Alarm, Extended Rotary Handle)	5	1	1	1	1	1		Nos
28	MPCB(6.3-10A) with Add on Module (Aux Contact, Trip Alarm Contact, Short Circuit Alarm, Extended Rotary Handle)	3	1		1		1		Nos
29	MPCB(4-6.3A) with Add on Module (Aux Contact, Trip Alarm Contact, Short Circuit Alarm, Extended Rotary Handle)	6	1	1	1	1	1	1	Nos
30	MPCB(1.6-2.5A) with Add on Module (Aux Contact, Trip Alarm Contact, Short Circuit Alarm, Extended Rotary Handle)	3				1	1	1	Nos
31	MPCB(2.5-4A) with Add on Module (Aux Contact, Trip Alarm Contact, Short Circuit Alarm, Extended Rotary Handle)	6	1	1	1	1	1	1	Nos
32	MPCB(1-1.6A) with Add on Module (Aux Contact, Trip Alarm Contact, Short Circuit Alarm, Extended Rotary Handle)	3				1	1	1	Nos
33	MPCB(0.4-0.63A) with Add on Module (Aux Contact, Trip Alarm Contact, Short Circuit Alarm, Extended Rotary Handle)	2				1	1		Nos
34	Digital voltmeter (300V)	6	1	1	1	1	1	1	Nos
35	415V Multifunction meter	6	1	1	1	1	1	1	Nos
36	Push button red	12	2	2	2	2	2	2	Nos
37	Push button green	12	2	2	2	2	2	2	Nos
38	Space heater	12	2	2	2	2	2	2	Nos
39	Thermostat	12	2	2	2	2	2	2	Nos
40	Local remote Selector switch(6A, 3P, 2W)	6	1	1	1	1	1	1	Nos
41	Local remote Selector switch(10A)	3	1		1		1		Nos
42	Local remote Selector switch(16A)	6	1	1	1	1	1	1	Nos
43	Local remote Selector switch(32A)	6	1	1	1	1	1	1	Nos
44	Local remote Selector switch(40A)	2		1			1		Nos
45	Local remote Selector switch(63A)	5	1	1	1		1	1	Nos
46	Local remote Selector switch(100A)	3	1		1		1		Nos
47	Current Transformers 630/1, 15VA	5	1	1	1		1	1	Nos
48	Current Transformers 400/1, 15VA	2				1	1		Nos
49	Current Transformers125/1A	1					1		Nos
50	Current Transformers 75/1A, 15VA	3				1	1	1	Nos
51	Flair Series V300, Digital Voltmeter	6	1	1	1	1	1	1	Nos
52	VOLTAGE MONITORING RELAY	6	1	1	1	1	1	1	Nos
53	50 A Power Contactor MNX50 (CS97075) ADDON BLOCK-FOR 3TYPE	6	1	1	1	1	1	1	Nos
54	18 A Power Contactor MNX18 (CS94100) with Addon blocok	6	1	1	1	1	1	1	Nos
55	25 A Power Contactor MNX25 (CS94110) with Addon Block	6	1	1	1	1	1	1	Nos
56	80A POWER CONTACTOR-ADDON BLOCK-FOR 3TYPE-MNX80(CS97077)	5	1	1	1	1		1	Nos
57	95A POWER CONTACTOR-ADDON BLOCK-FOR 3TYPE-MNX95(CS94136)	4	1	1	1		1		Nos
58	9A POWER CONTACTOR With Addon Blocok	6	1	1	1	1	1	1	Nos
59	12A POWER CONTACTOR MNX12 (CS94020)With Addon Blocok	6	1	1	1	1	1	1	Nos
60	AUXILLIARY CONTACTOR MX0 22E (CS94020)	30	5	5	5	5	5	5	Nos
61	MPR300 (MPR302BE040) Over Load Relay (4-11A)	6	1	1	1	1	1	1	Nos
62	TIMER (2BSDT0)	6	1	1	1	1	1	1	Nos
63	OVER LOAD RELAY (9-15A)MN5 (SS94135O0BO)	4				2	2		Nos
64	OVER LOAD RELAY (14-23A)-MN5 (SS94135O0DO)	12	2	2	2	2	2	2	Nos
65	OVER LOAD RELAY (20-33A)-MN5 (SS94136O0EO)	6		2			2	2	Nos
66	OVER LOAD RELAY (28-46.5A)-MN12 (SB94211OOGO)	10	2	2	2		2	2	Nos

67	18.5kW VFD	3				1	1	1	Nos
68	0.55kW VFD	6	1	1	1	1	1	1	Nos
69	37kW VFD	3		1			1	1	Nos
70	55kW VFD	3	1		1		1		Nos
71	45kW VFD	3	1		1		1		Nos
72	Automatic Power Factor Controller RELAY	6	1	1	1	1	1	1	Nos
73	2KVAControl Transformer	6	1	1	1	1	1	1	Nos
74	Lugs	6	1	1	1	1	1	1	Set
75	Glands	6	1	1	1	1	1	1	Set
76	Terminal Blcok	6	1	1	1	1	1	1	Set
E	HT swgr								
E1	VCB SPARES								
1	Closing Unit assembly	6	1	1	1	1	1	1	Nos.
2	Tripping Unit assembly	6	1	1	1	1	1	1	Nos.
3	Motor cutoff limit switch assembly	6	1	1	1	1	1	1	Nos.
4	Mechanism Shaft assembly	6	1	1	1	1	1	1	Nos.
5	TRIPPING SPRING ASSEMBLY SET	6	1	1	1	1	1	1	set
6	Closing Spring set	6	1	1	1	1	1	1	Nos.
7	Top Pole Head	18	3	3	3	3	3	3	Nos.
8	Bottom Pole Head	18	3	3	3	3	3	3	Nos.
9	Vacuum Interrupter (type-C1)	6	1	1	1	1	1	1	Nos.
10	Spring Charge Motor 220V (ac/dc)	6	1	1	1	1	1	1	Nos.
11	Operating Coil 220V (dc)	12	2	2	2	2	2	2	Nos.
12	VCB Support Insulator Ø118	30	5	5	5	5	5	5	Nos.
13	Panel / Busbar Support Insulator Ø75	60	10	10	10	10	10	10	Nos.
14	Lever for VI	18	3	3	3	3	3	3	Nos.
15	Drive link	18	3	3	3	3	3	3	Nos.
16	D-Lever assembly	6	1	1	1	1	1	1	Nos.
17	Lead Screw assembly	6	1	1	1	1	1	1	Nos.
18	Centering Ring	18	3	3	3	3	3	3	Nos.
19	Spherical Rod end	18	3	3	3	3	3	3	Nos.
20	Spacer Tube	6	1	1	1	1	1	1	Nos.
21	Support Rod	30	5	5	5	5	5	5	Nos.
22	Compression Spring	18	3	3	3	3	3	3	Nos.
23	Aux Switch 16 Way	6	1	1	1	1	1	1	Nos.
24	Emergency tripping assy	6	1	1	1	1	1	1	Nos.
25	Plug & Socket assy(Male + Female set)-32 pin	6	1	1	1	1	1	1	Nos.
26	Castle Lock assy (with out key & lock)	6	1	1	1	1	1	1	Nos.
27	slow closing handle	6	1	1	1	1	1	1	Nos.
28	Motor Charging handle	24	4	4	4	4	4	4	Nos.
29	Rack in Rack out handle (modified)	6	1	1	1	1	1	1	Nos.
30	PACKER CU Jaw Contact	30	5	5	5	5	5	5	Nos.
31	FLEXIBLE CONNECTION UP TO 1600A	30	5	5	5	5	5	5	Nos.
32	Bearing	12	2	2	2	2	2	2	Nos.
33	Rollers	24	4	4	4	4	4	4	Nos.
34	DASHPOT	6	1	1	1	1	1	1	Nos.
35	Set of clips	6	1	1	1	1	1	1	sets
36	INDICATOR (ON-OFF)	6	1	1	1	1	1	1	Nos.
37	Truck Nylon wheels	24	4	4	4	4	4	4	Nos.
38	Nylon Rollers for shutter lifting	24	4	4	4	4	4	4	Nos.
39	Bolt for Truck wheel	24	4	4	4	4	4	4	Nos.
		18	3	3	3	3	3	3	Nos.
		18	3	3	3	3	3	3	Nos.

40	SET OF PINS	6	1	1	1	1	1	1	Nos.
		6	1	1	1	1	1	1	Nos.
		6	1	1	1	1	1	1	Nos.
		6	1	1	1	1	1	1	Nos.
		6	1	1	1	1	1	1	Nos.
		6	1	1	1	1	1	1	Nos.
		18	3	3	3	3	3	3	Nos.
41	Complete VCB upto 1600 A	6	1	1	1	1	1	1	Nos.
42	Jaw Contact assembly upto 1600A	30	5	5	5	5	5	5	Nos.
43	Manual Knob Push Button (RED & GREEN)	6	1	1	1	1	1	1	Nos.
44	Damping Rubber Pad	6	1	1	1	1	1	1	Nos.
45	Auxiliary rod	6	1	1	1	1	1	1	Nos.
46	Swing Bolt for aux rod	6	1	1	1	1	1	1	Nos.
47	VCB Interphase barrier	6	1	1	1	1	1	1	Nos.
48	PVC material VCB Pole Shroud	6	1	1	1	1	1	1	Nos.
49	Plunger	6	1	1	1	1	1	1	Nos.
50	Plunger Pin	6	1	1	1	1	1	1	nos.
E2	PANEL SPARES								
1	DOOR GASKET (4.4mtr/panel)	18	3	3	3	3	3	3	Nos.
2	DOOR LOCK ASSY	12	2	2	2	2	2	2	Nos.
3	DOOR GLASS	24	4	4	4	4	4	4	Nos.
4	Inter Panel B/B bushing (Rectangular)	18	3	3	3	3	3	3	Nos.
5	SHUTTER ARRGT.	6	1	1	1	1	1	1	Nos.
6	FIXED CONTACT SET WITH SOB(bottom) 1600A	6	1	1	1	1	1	1	SET
7	FIXED CONTACT SET WITH SOB (Top) 1600 A	6	1	1	1	1	1	1	SET
8	LIMIT SWITCH TEST/SERVICE	12	2	2	2	2	2	2	Nos.
9	TRIPPING LEVER/KNOB	6	1	1	1	1	1	1	Nos.
10	CLEAT	84	14	14	14	14	14	14	Nos.
11	NUT	120	20	20	20	20	20	20	Nos.
12	INSULATING SCREW M6X22	120	20	20	20	20	20	20	Nos.
13	BARRIER(FOR LT BUSBAR)	6	1	1	1	1	1	1	Nos.
14	PACKER(ROUND)	30	5	5	5	5	5	5	Nos.
15	AL SPACER(ROUND)	30	5	5	5	5	5	5	Nos.
16	SUPPORT CHANNEL	12	2	2	2	2	2	2	Nos.
17	BUSBAR SCREW (SPECIAL)	354	59	59	59	59	59	59	Nos.
18	SHIM	354	59	59	59	59	59	59	Nos.
19	MAIN BUSBAR 12x75AL	60	10	10	10	10	10	10	Nos.
20	STEEL STUD	24	4	4	4	4	4	4	Nos.
21	CLAMP PLATE	24	4	4	4	4	4	4	Nos.
22	PACKER	12	2	2	2	2	2	2	Nos.
23	LINK PLATE INPLACE OF DROPPERS AL	48	8	8	8	8	8	8	Nos.
24	BARRIER	6	1	1	1	1	1	1	Nos.
25	SEALING COVER	18	3	3	3	3	3	3	Nos.
26	BUSBAR JOINT SHROUD (T-joint)	78	13	13	13	13	13	13	Nos.
27	BUSBAR JOINT SHROUD (L-joint)	78	13	13	13	13	13	13	Nos.
28	SUPPORT CHANNEL ROUND PACKER	54	9	9	9	9	9	9	Nos.
29	EARTHING CONNECTION	18	3	3	3	3	3	3	Nos.
30	PVC SLEEVE L/F 0.4X104 FOR 75WD BUSBAR	300	50	50	50	50	50	50	MTR
31	PVC SLEEVE 38Ø FOR WIRING	300	50	50	50	50	50	50	MTR
32	Space heaters 75W	48	8	8	8	8	8	8	Nos
33	BOLT HEX A M12X65-8.8	300	50	50	50	50	50	50	Nos.
34	NUT HEX A M12-8	354	59	59	59	59	59	59	Nos.

35	WASHER SPG-12-ST	354	59	59	59	59	59	59	Nos.
36	WASHER MCD 13-ST	354	59	59	59	59	59	59	Nos.
37	SCRU HEX A M8X30-8.8	504	84	84	84	84	84	84	Nos.
38	WASHER SPG-8-ST	504	84	84	84	84	84	84	Nos.
39	WASHER MCD 8.4-ST	504	84	84	84	84	84	84	Nos.
40	NUT HEX A M8-8	504	84	84	84	84	84	84	Nos.
41	M20 bolts for support insulator	78	13	13	13	13	13	13	Nos.
42	Nylon M5 Screw	252	42	42	42	42	42	42	Nos.
43	Nylon M5 Nut	252	42	42	42	42	42	42	Nos.
44	SCRU HEX A M6X20-8.8	102	17	17	17	17	17	17	Nos.
45	WASHER SPG LOCK SCB-6-ST	102	17	17	17	17	17	17	Nos.
46	WASHER MCD 6.4-ST	102	17	17	17	17	17	17	Nos.
47	NUT HEX A M6-8	102	17	17	17	17	17	17	Nos.
48	BOLT HEX A M16X65-8.8	102	17	17	17	17	17	17	Nos.
49	WASHER SPG LOCK SCB 16-ST	102	17	17	17	17	17	17	Nos.
50	WASHER MCD 17-ST	102	17	17	17	17	17	17	Nos.
51	THOL/CON 220VDC THERMAL OVERLOAD RELAY WITH POWER	6	1	1	1	1	1	1	Nos.
52	DC DIODE PLATE	12	2	2	2	2	2	2	Nos.
53	BARRIER FOR TOP FIXED CONTACT	450	75	75	75	75	75	75	Nos.
54	BARRIER FOR BOTTOM FIXED CONTACT	402	67	67	67	67	67	67	Nos.
55	SILICON SEALANT	24	4	4	4	4	4	4	Nos.
E3	ELECTRICAL SPARES								
1	CT RATIO 15/1-1 A, CORE-1 - 5P10,3VA, CORE-2 - 0.5S, 3VA	6	1	1	1	1	1	1	nos.
2	CT RATIO 20/1-1 A, CORE-1 - 5P20, 3VA, CORE-2 - 0.5S, 5VA	6	1	1	1	1	1	1	nos.
3	PT 11KV/ROOT3/110V/ROOT3-110V/ROOT3-110V/3, CORE-1 - 0.2/3P,50VA, CORE-2 - 3P,50VA, CORE-3 - 3P,50VA	6	1	1	1	1	1	1	nos.
4	DAMPING RESISTOR (0-300 OHM,200 W)	6	1	1	1	1	1	1	nos.
5	LIMIT SWITCH 2NC + 1NO CONTACT SERVICE AND TEST POSITION	12	2	2	2	2	2	2	nos.
6	80 WATTS ANTICONDENSATION TUBULAR 240 VAC FOR BUSBAR CHAMBER	12	2	2	2	2	2	2	nos.
7	80 WATTS ANTICONDENSATION TUBULAR 240 VAC FOR CB CHAMBER	12	2	2	2	2	2	2	nos.
8	80 WATTS ANTICONDENSATION TUBULAR 240 VAC FOR CT CHAMBER	12	2	2	2	2	2	2	nos.
9	15A,240VAC THERMOSTATS FOR HEATER	6	1	1	1	1	1	1	nos.
10	230V AC THERMAL OVERLOAD RELAY WITH POWER CONTACTOR HAVING 1NC AUX.CONTACT.	6	1	1	1	1	1	1	nos.
11	110VDC SPRING CHARGING MOTOR LIMIT SWITCH 1NO+1NC	30	5	5	5	5	5	5	nos.
12	110VDC PLUG IN RELAY	6	1	1	1	1	1	1	nos.
13	110V DC POWER PACK	6	1	1	1	1	1	1	nos.
14	2 ELEMENT AUX. RELAY, AUX. SUPPLY:110 VDC, CONTACTS 8NO	12	2	2	2	2	2	2	nos.
15	MULTIFUNCTION METER	6	1	1	1	1	1	1	nos.
16	8 WINDOW ANNUNCIATOR	6	1	1	1	1	1	1	nos.
17	STATIC BUZZER 18-285 VAC/DC	6	1	1	1	1	1	1	nos.
18	LOCAL/REMOTE SELECTOR SWITCH (LOCKABLE)	6	1	1	1	1	1	1	nos.
19	BREAKER CONTROL SWITCH,TRIP/NEUTRAL/CLOSE	6	1	1	1	1	1	1	nos.
20	MAIN AC ON/OFF SWITCH (LOCKABLE)	6	1	1	1	1	1	1	nos.
21	ANALOGUE TYPE 0-15KV RANGE 1.0 ACCURACY 96X96 sq. mm CLASS VOLTMETER	6	1	1	1	1	1	1	nos.
22	VOLTMETER SELECTOR SWITCH (RY-YB-BR-OFF)	6	1	1	1	1	1	1	nos.
23	AMMETER (RANGE - 0 - 15 A)	6	1	1	1	1	1	1	nos.
24	AMMETER (RANGE - 0 - 20 A)	6	1	1	1	1	1	1	nos.

25	AMMETER SELECTOR SWITCHES (R-Y-B-OFF)	6	1	1	1	1	1	1	nos.
26	Red 110 DC Clustered Type LED lamp (Circuit Breaker Closed)	6	1	1	1	1	1	1	nos.
27	Green 110 DC Clustered Type LED lamp (Circuit Breaker Open)	6	1	1	1	1	1	1	nos.
28	Blue 110V DC Clustered Type LED lamp (CB Spring Charged)	6	1	1	1	1	1	1	nos.
29	Amber 110V DC Clustered Type LED lamp (Auto Trip)	6	1	1	1	1	1	1	nos.
30	Clear White 110V DC Clustered Type LED lamp (Trip Circuit Healthy)	6	1	1	1	1	1	1	nos.
31	Amber 110V DC Clustered Type LED lamp (Breaker In Service)	6	1	1	1	1	1	1	nos.
32	Amber 110V DC Clustered Type LED lamp (Breaker In Test)	6	1	1	1	1	1	1	nos.
33	Amber 220V AC Clustered Type LED lamp (DC Supply Un-healthy)	6	1	1	1	1	1	1	nos.
34	RED 63.5V AC, Clustered Type LED lamp (PT R phase healthy)	6	1	1	1	1	1	1	nos.
35	YELLOW 63.5V AC, Clustered Type LED lamp (PT Y phase healthy)	6	1	1	1	1	1	1	nos.
36	BLUE 63.5V AC, Clustered Type LED lamp (PT B phase healthy)	6	1	1	1	1	1	1	nos.
37	DOOR SWITCH	6	1	1	1	1	1	1	nos.
38	INDICATION FSAF1-2A FUSE	6	1	1	1	1	1	1	nos.
39	INDICATION FSAF2-2A FUSE	6	1	1	1	1	1	1	nos.
40	SPRING RELEASE FSBL1-6A FUSE	6	1	1	1	1	1	1	nos.
41	SPRING RELEASE FSBL2-6A FUSE	6	1	1	1	1	1	1	nos.
42	SHUNT RELEASE FSAK1-16A FUSE	6	1	1	1	1	1	1	nos.
43	SHUNT RELEASE FSAK2-16A FUSE	6	1	1	1	1	1	1	nos.
44	HEATER, ILLUMIN. & SOCKET FSBM-16A FUSE	6	1	1	1	1	1	1	nos.
45	FUSE FOR METERING CIRCUIT FSBM1-2A	6	1	1	1	1	1	1	nos.
46	ANNUNCIATOR CIRCUIT FUSE FSAN-2A	6	1	1	1	1	1	1	nos.
47	D.C. SUPPLY FOR RELAY FSBP1-6A FUSE	6	1	1	1	1	1	1	nos.
48	D.C. SUPPLY FOR RELAY FSBP2-6A FUSE	6	1	1	1	1	1	1	nos.
49	SPRING CHARGING MOTOR FSZ1-16A FUSE	6	1	1	1	1	1	1	nos.
50	PT R-PHASE FSH1A-2A FUSE	6	1	1	1	1	1	1	nos.
51	PT Y-PHASE FSH2A-2A FUSE	6	1	1	1	1	1	1	nos.
52	PT B-PHASE FSH3A-2A FUSE	6	1	1	1	1	1	1	nos.
53	PT R-PHASE FSH1B-2A FUSE	6	1	1	1	1	1	1	nos.
54	PT Y-PHASE FSH2B-2A FUSE	6	1	1	1	1	1	1	nos.
55	PT B-PHASE FSH3B-2A FUSE	6	1	1	1	1	1	1	nos.
56	FUSE FOR BUZZER CIRCUIT FSHT-2A	6	1	1	1	1	1	1	nos.
57	PT WDG-1 HEALTHY MCB,16A,4 POLE WITH 1NO+1NC CONTACT	6	1	1	1	1	1	1	nos.
58	PT WDG-2 HEALTHY MCB,16A,4 POLE WITH 1NO+1NC CONTACT	6	1	1	1	1	1	1	nos.
59	Power Pack MCB,16A , 2 Pole	6	1	1	1	1	1	1	nos.
60	AC SUPPLY FSBH-32A	6	1	1	1	1	1	1	nos.
61	240VAC 6A, PIANO TYPE SWITCH FOR HEATER	6	1	1	1	1	1	1	nos.
62	240VAC 6/16A,3PIN PIANO TYPE SWITCH & SOCKET	6	1	1	1	1	1	1	nos.
63	240VAC ON/OFF SWITCH (NON-LOCKABLE)	6	1	1	1	1	1	1	nos.
64	220V DC ON/OFF SWITCH (NON-LOCKABLE)	6	1	1	1	1	1	1	nos.
65	440V AC 10A, 3 Phase 4 wire, Screw type, Test Link Block	6	1	1	1	1	1	1	nos.
66	110V DC, 2NO+2NC Aux. Contactor	6	1	1	1	1	1	1	nos.
F	ABT METERING PANEL								
1	11kV HT Fuse, 20A	24	4	4	4	4	4	4	nos.
2	11kV HT Fuse, 3.15A	24	4	4	4	4	4	4	nos.
G	UPS Package								
1	Battery Cell(12V, 42AH)	150	25	25	25	25	25	25	Nos

2	AMC for 10 Yrs for 7 Nos. UPS	7	1	1	1	1	1	2	Set
H	Telephone system								
1	Indoor mounting Desktop type telephone grade with connecting cable	6	1	1	1	1	1	1	No
2	Weather proof telephone wall mounting industrial garde with connecting cable	6	1	1	1	1	1	1	Nos
3	5 pair x0.9 mm dia. Armoured cable	510	85	85	85	85	85	85	m