

**ELECTRICITY SECTOR**  
**LIST OF PRE-APPROVED ITEMS**  
**IN ACCORDANCE WITH SCR 1330 (2000), (As of 24/05/01)**

SERIAL NO.	DESCRIPTION	TECHNICAL SPECIFICATION (AS PER RELEVANT IEC STANDARDS)
1	POWER TRANSFORMERS FOR NISSIRIYAH THERMAL POWER STATION	AUTO TRANSFORMER: 250 MVA, 420/15.75 KV, 13% IMPEDANCE VOLTAGE, OFF COOLED
2	POWER TRANSFORMERS FOR DIBIS THERMAL POWER STATION	POWER TRANSFORMER: 57 MVA, 132 /11 AND 10.2 KV, 13% IMPEDANCE VOLTAGE, AF COOLED
3	CABLE XLPE 3X150, 11 KV	11KV, 3 CORE X 150 SQ MM, STRANDED COPPER CONDUCTOR, CROSS LINKED POLYETHYLENE (XLPE) INSULATED AND ARMOURED WITH GALVANIZED WIRE OR STRIPS FOR MECHANICAL STRENGTH
4	CABLE XLPE 3X150, 33 KV	33KV, 3 CORE X 150 SQ MM, STRANDED COPPER CONDUCTOR, CROSS LINKED POLYETHYLENE (XLPE) INSULATED AND ARMOURED WITH GALVANIZED WIRE OR STRIPS FOR MECHANICAL STRENGTH
5	CABLE XLPE 1X400, 33 KV	33KV, 1 CORE X 400 SQ MM, STRANDED COPPER CONDUCTOR, CROSS LINKED POLYETHYLENE (XLPE) INSULATED AND ARMOURED WITH ALUMINUM ALLOY WIRE FOR MECHANICAL STRENGTH
6	STRAIGHT JOINT 1X400MM <sup>2</sup> 33 KV (OUTDOOR)	MATERIAL OF CONSTRUCTION - EXTRUDED OR MOULDED POLYMERIC COMPOUNDS.
7	TERMINATION 1X400MM <sup>2</sup> , 33 KV (OUTDOOR)	
8	STRAIGHT JOINT 1X150 MM <sup>2</sup> , 11KV	
9	STRAIGHT JOINT 3X150 MM <sup>2</sup> , 33KV	
10	TERMINATION JOINT 3X150 MM <sup>2</sup> , 33KV (OUTDOOR)	
11	STRAIGHT JOINT 3X150MM <sup>2</sup> , 11KV	
12	STRAIGHT JOINT 400VOLT, 3X120+70	
13	STRAIGHT JOINT 400VOLT, 3X150+70	
14	STRAIGHT JOINT 400VOLT, 3X95+50	
15	STRAIGHT JOINT 400VOLT, 3X70+35	
16	STRAIGHT JOINT 400VOLT, 3X240+150 , 3X250+150 & 3X240 + 120	
17	CUT -OUT FUSE 11KV &33KV WITH THE FUSES	MATERIAL OF CONSTRUCTION- LEAD ALLOY
18	ELEMENT FUSE 20-40&60 AMP.	

SERIAL NO.	DESCRIPTION	TECHNICAL SPECIFICATION (AS PER RELEVANT IEC STANDARDS)
19	( ON -LOAD ) LINE ISOLATOR 11KV & 33KV	MATERIAL OF CONSTRUCTION - STEEL / CAST IRON AND CERAMIC INSULATORS
20	PORCELAIN PIN TYPE INSULATORS WITH GALVANIZED STEEL SPINDLE 33 KV LONG TYPE	MATERIAL OF CONSTRUCTION - CERAMIC AND CAST IRON / ALUMINUM ALLOY
21	PORCELAIN PIN TYPE INSULATORS WITH GALVANIZED STEEL SPINDLE 11 KV LONG TYPE	
22	DISC INSULATORS FOR 11KV	
23	DISC INSULATORS FOR 11KV SOCKET EYE	
24	DISC INSULATORS FOR 11KV -SUSPENSION CLAMP FOR 120/20&210/35	
25	DISC INSULATORS FOR 11KV TENSION CLAMP FOR 120/20&210/35	
26	DISC INSULATORS FOR 11KV - BALL EYE	
27	COLD ROLLED STEEL SHEET 4X8 FT THICKNESS 1.25MM JIS G3141	THE MATERIAL COMPLIES WITH JAPANESE STANDARD - JIS G3141
28	HOT ROLLED STEEL SHEET 4X8 FT THICKNESS 2.5 MM JIS G3131	THE MATERIAL COMPLIES WITH JAPANESE STANDARD - JIS G3131
29	PVC INSULATED BUS BAR 7.5MMX 20MM COPPER WRAPPED WITH THE HEAT -SHRINKABLE PVC IN DIFFERENT COLOR	BUS BAR MATERIAL: HIGH ELECTROLYTIC COPPER 99.9% PURITY.
30	BUS BAR HOLDER	BUS BAR MATERIALS: POLY VINYL CHLORIDE / POLYMERIC (PVC) COMPOUNDS.
31	CABLE SHOE TERMINAL FOR CABLE SIZE 95MM <sup>2</sup>	MATERIAL OF CONSTRUCTION - POLY VINYL CHLORIDE / POLYMERIC (PVC) COMPOUNDS
32	CABLE GLANDS FOR CABLE SIZE OF 95MM <sup>2</sup>	MATERIAL: BRASS.
33	11/0.4 KV DIST . TRANSFORMERS 100 -250 -400 -630 & 1000 KVA WITH SPARE PARTS	MATERIAL OF CONSTRUCTION- WINDING MATERIAL: COPPER; TANK MATERIAL: SHEET STEEL; SPARES: HIGH TENSION WINDINGS, LOW TENSION WINDINGS, CERAMIC BUSHINGS; WINDING
34	33/0.4 KV DIST . TRANSFORMERS 250 ,400 ,630 & 1000 KVA WITH SPARE PARTS	MATERIAL: COPPER. DISTRIBUTION TRANSFORMERS ARE USED IN DISTRIBUTION SYSTEM TO STEPDOWN VOLTAGE FROM 11 TO 0.4 KV.
35	TAP CHANGER	USED IN POWER AND DISTRIBUTION TRANSFORMERS FOR VOLTAGE AND REACTIVE POWER FLOW CONTROL; OFF LOAD TAP CHANGER 33/11 KV, 11 TAPS, +/- 5% IN STEPS OF 2.5%; BASIC MATERIAL OF CONSTRUCTION: COPPER AND STEEL

SERIAL NO.	DESCRIPTION	TECHNICAL SPECIFICATION (AS PER RELEVANT IEC STANDARDS)
36	kWh -METERS (1PH ) 40 AMP	USED IN CONSUMER PREMISES (HOUSE HOLDS) FOR THE MEASURING POWER (ELECTRICITY).
37	kWh -METERS (3PH ) 3(20-60) AMP	
38	ACCESSORIES FOR TWISTED CABLE	
39	LAMPS -125W -160W-250W&400W MERCURY	LIGHTING
40	LAMPS 150W- 250W & 400 W SODIUM	
41	LANTERNS FOR LAMPS -125W -160W- 250W&400W MERCURY	
42	LANTERNS FOR LAMPS150W-250W & 400 W SODIUM	
43	CHOKES FOR LANTERNS FOR LAMPS 125 & 400W MERCURY	
44	CHOKES FOR LANTERNS FOR LAMPS( 150W, 250W&400 W) SODIUM	
45	IGNITER FOR LAMPS 400W SODIUM	
46	PHOTO ELECTRICAL CELL	CONTROL OUTDOOR LIGHTING SYSTEM
47	CONTROL POLE MOUNTED : SINGLE PHASE 230V , 80 AMP & THREE PHASE 400V , 100AMP	LIGHTING
48	FLOOD LIGHT SYSTEM	
49	SINGLE POLE MCB 63 AMP 220 VAC 50HZ	MINIATURE CIRCUIT BREAKERS (MCBs) ARE USED IN ELECTRICAL CIRCUITS FOR SWITCHING (ON/OFF) AND ISOLATING FAULTY CIRCUITS.
50	3POLE CONTACTOR AC3 RATING : 40 AMP COIL 220/240 VAC 50HZ	CONTRACTORS ARE USED FOR SWITCHING (ON/OFF) ELECTRICAL CIRCUITS.
51	TOGGLE SWITCH ON-OFF-ON DPDT 10 AMP	TOGGLE SWITCHERS ARE USED FOR SWITCHING (ON/OFF) ELECTRICAL CIRCUITS.
52	3 POLE MCB 80 AMP 380 VAC 50HZ	MINIATURE CIRCUIT BREAKERS (MCBs) ARE USED IN ELECTRICAL CIRCUITS FOR SWITCHING (ON/OFF) AND ISOLATING FAULTY CIRCUITS.
53	NYLON CABLE GLAND SUITABLE FOR CABLE SIZE 4X25MM2	NYLON CABLE GLANDS ARE USED FOR SUPPORTING CABLES
54	NYLON CABLE GLAND SUITABLE FOR CABLE SIZE 2X25MM2	
55	3POLE CONTACTOR AC3 RATING 80 AMP COIL 220/240 VAC 50HZ	CONTRACTORS ARE USED FOR SWITCHING (ON/OFF) ELECTRICAL CIRCUITS.

SERIAL NO.	DESCRIPTION	TECHNICAL SPECIFICATION (AS PER RELEVANT IEC STANDARDS)
56	MINIATURE CIRCUIT BREAKER 20A, 40A, 45A , 60A, 100,125,150 & 250	MINIATURE CIRCUIT BREAKERS (MCBs) ARE USED IN ELECTRICAL CIRCUITS FOR SWITCHING (ON/OFF) AND ISOLATING FAULTY CIRCUITS.
57	OUTDOOR 33KV C.B. 630A VACUUM OR SF6	CIRCUIT BREAKERS (CBs) ARE USED IN DISTRIBUTION SYSTEM FOR SWITCHING (ON/OFF) AND ISOLATING FAULTY CIRCUITS. VACUUM AND SF6 ARE INSULATING MEDIUM USED IN THE CIRCUIT BREAKERS. SF6-SUPHUR HEXA FLUORIDE.
58	33 KV C.B. INCOMING & OUTGOING 1250A SF6 OR VACUUM	
59	VACUUM C.B. 36KV , 630A , 25KA	CIRCUIT BREAKERS (CBs) ARE USED IN DISTRIBUTION SYSTEM FOR SWITCHING (ON/OFF) AND ISOLATING FAULTY CIRCUITS. VACUUM IS AN INSULATING MEDIUM USED IN THE CIRCUIT BREAKERS.
60	VACUUM C.B. (VE-14) 12KV , 2000A , 25KA	
61	VACUUM INTERRUPTER FOR VGB 630A 12KV,25KA	VACUUM INTERRUPTERS ARE PART OF VACUUM CIRCUIT BREAKERS USED IN DISTRIBUTION SYSTEM FOR SWITCHING (ON/OFF) AND ISOLATING FAULTY CIRCUITS. VACUUM IS AN INSULATING MEDIUM USED IN THE CIRCUIT BREAKERS.
62	TRIPPING COIL FOR VGB 110 VDC	TRIPPING COILS ARE PART OF CIRCUIT BREAKERS USED IN DISTRIBUTION SYSTEM FOR SWITCHING (ON/OFF) AND ISOLATING FAULTY CIRCUITS.
63	CLOSING SPRING LEVER	CLOSING SPRING LEVERS ARE PART OF CIRCUIT BREAKERS USED IN DISTRIBUTION SYSTEM FOR SWITCHING (ON/OFF) AND ISOLATING FAULTY CIRCUITS.
64	CURRENT TRANSFORMER 36KV 200- 400/5/5A	CURRENT TRANSFORMERS ARE USED IN DISTRIBUTION SYSTEM FOR CONTROL PROTECTION AND MEASUREMENT IN ELECTRICAL CIRCUITS.
65	CURRENT TRANSFORMER 36KV 100- 400/5/5A	BASIC CONSTRUCTION MATERIALS: COPPER AND SILICON STEEL.
66	BUSHING TYPE CURRENT TRANSFORMER 12KV 1800/5/5A	BUSHING TYPE CURRENT TRANSFORMERS ARE USED IN DISTRIBUTION SYSTEM FOR CONTROL PROTECTION AND MEASUREMENT IN ELECTRICAL CIRCUITS. BASIC CONSTRUCTION MATERIALS: COPPER, SILICON AND CERAMIC
67	BUSHING TYPE CURRENT TRANSFORMER 12KV 300/5/5A	
68	VOLTAGE TRANSFORMER 33KV/ 3/110V/ 3 200VA	VOLTAGE TRANSFORMERS ARE USED IN DISTRIBUTION SYSTEM FOR CONTROL PROTECTION AND MEASUREMENT IN ELECTRICAL CIRCUITS. BASIC CONSTRUCTION MATERIAL: COPPER AND SILICON STEEL
69	VOLTAGE TRANSFORMER 11KV/ 3/110V/ 3 1107 200VA	
70	AMMETER WITH MAX. DEMAND (0-300A)	AMMETERS ARE USED IN POWER GENERATION, TRANSMISSION AND DISTRIBUTION SYSTEMS FOR MEASUREMENT OF CURRENT. RANGE: 0 TO 300 AMPERES

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71	VOLTMETER 0-45KV	VOLTMETERS ARE USED IN POWER GENERATION, TRANSMISSION AND DISTRIBUTION SYSTEMS FOR MEASUREMENT OF VOLTAGE. RANGE : 0 TO 45 KILO VOLTS
72	VOLTMETER 0-15KV	VOLTMETERS ARE USED IN POWER GENERATION, TRANSMISSION AND DISTRIBUTION SYSTEMS FOR MEASUREMENT OF VOLTAGE. RANGE : 0 TO 15 KILO VOLTS
73	UNDER FREQUENCY RELAY 110,46-50HZ	UNDER FREQUENCY RELAYS ARE USED POWER GENERATION, TRANSMISSION AND DISTRIBUTION SYSTEMS FOR PROTECTION ELECTRICAL EQUIPMENT AND SYSTEMS. RANGE: 46 TO 50 HZ. COIL VOLTAGE: 110 VOLTS.
74	OVER CURRENT GROUND RELAY 1-4A (TIME LAG) INSTANT 5-20A	OVER CURRENT GROUND RELAYS ARE USED POWER GENERATION, TRANSMISSION AND DISTRIBUTION SYSTEMS FOR PROTECTION ELECTRICAL EQUIPMENT AND SYSTEMS. RANGE: 1 TO 4 A (TIME LAG) AND 5 TO 20A (INSTANT)
75	BUCHHOLZ RELAY	BUCHHOLZ RELAYS ARE USED IN TRANSFORMERS TO DETECT INTERNAL AT FAULTS.
76	LAMP FOR BSL (ACN-8811)& BSL (ABN-111)18V,2W	LAMPS ARE USED FOR INDICATION IN ELECTRICAL PANELS.
77	BUZZER 110VDC	BUZZERS ARE USED IN ELECTRICAL PANELS FOR FAULT ANNUNCIATION (ALARM).
78	BELL 110 VDC	BELLS ARE USED IN ELECTRICAL PANELS FOR FAULT ANNUNCIATION (ALARM).
79	PILOT LAMP (WHITE) 220V AC (18V,2W)	LAMPS ARE USED FOR INDICATION IN ELECTRICAL PANELS.
80	DITTO (RED)	
81	VGB 12KV 1250A 25KA	CIRCUIT BREAKERS (CBs) ARE USED IN DISTRIBUTION SYSTEM FOR SWITCHING (ON/OFF) AND ISOLATING FAULTY CIRCUITS. VACUUM IS AN INSULATING MEDIUM USED IN THE CIRCUIT BREAKERS.
82	VGB 36KV 1250A 25KA	
83	CLOSING HOOK	CLOSING HOOKS ARE PART OF CIRCUIT BREAKERS USED IN DISTRIBUTION SYSTEM FOR SWITCHING (ON/OFF) AND ISOLATING FAULTY CIRCUITS.
84	CIRCUIT BREAKER 12KV, 2000A, 25KA,LF3, SF6	CIRCUIT BREAKERS (CBs) ARE USED IN DISTRIBUTION SYSTEM FOR SWITCHING (ON/OFF) AND ISOLATING FAULTY CIRCUITS. SF6 IS AN INSULATING MEDIUM USED IN THE CIRCUIT BREAKERS.
85	CIRCUIT BREAKER 12KV, 2000A, 25KA,FG3, SF6	
86	LOW VOLTAGE CABLE 3X240+120 MM2 ARMOURED	
87	LOW VOLTAGE CABLE 4X185 MM2 ARMOURED	
88	LOW VOLTAGE CABLE 1X95 MM2	

SERIAL NO.	DESCRIPTION	TECHNICAL SPECIFICATION (AS PER RELEVANT IEC STANDARDS)
89	LOW VOLTAGE CABLE 1X150 MM2	MATERIAL OF CONSTRUCTION - COPPER AND POLY VINYL CHLORIDE / POLYMERIC (PVC) COMPOUNDS
90	LOW VOLTAGE CABLE 3X150+70 MM2 ARMOURED	
91	LOW VOLTAGE CABLE 3X95+50 MM2 ARMOURED	
92	LOW VOLTAGE CABLE 2X2.5MM2	
93	LOW VOLTAGE CABLE 2X2.5 MM2	
94	LOW VOLTAGE CABLE 3X70+35 MM2 ARMOURED	
95	LOW VOLTAGE CABLE 4X10 MM2 ARMOURED & UNARMOURED	
96	LOW VOLTAGE CABLE 4X16 MM2 ARMOURED & UNARMOURED	
97	LOW VOLTAGE CABLE 4X25 MM2	