



DEPARTMENT OF ELECTRICAL SERVICES
MINISTRY OF ENERGY (ENERGY AND MANPOWER) AND INDUSTRY
GENERAL LISTS OF APPROVED PRODUCTS / MANUFACTURERS FOR MECHANICAL AND ELECTRICAL INSTALLATIONS
REVISION 22 OCTOBER 2018

1.0 POWER CABLES AND ACCESSORIES

1.1 33KV / 66KV HIGH VOLTAGE (XLPE LEAD SHEATH)

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	1.1.1	Federal Powers	(Malaysia)	33KV & 66KV XLPE Underground Cables
✓	1.1.2	LG Tek	(Korea)	
✓	1.1.3	Phelps Dodge	(Thailand)	H.T. Power Cable
✓	1.1.4	Pirelli	(Italy / U.K)	
✓	1.1.5	Taihan Sacom Company to "Taihan Cable Vina Co. Ltd" - (Change of Name)	(Korea)	4C/300mm ₂ XLPE/LSF CABLE, 2.) 1C/25mm ₂ XLPE/LSF CABLE 3.) 5C/4mm ₂ XLPE/LSF CABLE
	1.1.6	Leader Cable	(Malaysia)	66KV XLPE Cable (Up to 1C X 800mm.Sq)
	1.1.7	LS-Vina	(Vietnam)	High Voltage Cables Up to 170KV (UP to conductor size 1000sqmm)
	1.1.8	Suedkabel GMBH	(Germany)	66KV XLPE/Lead Sheathed Cable
	1.1.9	PCM	(Malaysia)	33KV & 66KV High Voltage Cables
*	1.1.10	Daewon	(Korea)	11KV XLPE LS Cable (Up to 300mm ² /3C)



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1.2 11KV MEDIUM VOLTAGE UNDERGROUND CABLE (XLPE LEAD SHEATHED)

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	1.2.1	Federal Powers	(Malaysia)	1) 11KV XLPE Underground Cables
✓	1.2.2	LG Tek	(Korea)	
✓	1.2.3	Phelps Dodge	(Thailand)	11KV XLPE Underground Cables & 600 / 1000V Low Voltage Cables
✓	1.2.4	Pirelli	(Italy/U.K)	
✓	1.2.5	Taihan Cable Vina Co. Ltd.	(Korea, Vietnam)	1) 95 SQ.MM/3C XLPE/LD/DSTA PVC CABLES 2) 185SQ.MM/3C XLPE/LD/DSTA/PVC CABLE 3) 300 SQ.MM 3C XLPE/LD/DSTA/PVC CABLE 8.7/15kV XLPE Power Cable up to 3Cx300mm ²
	1.2.6	PCM	(Malaysia)	11KV XLPE Medium Voltage Cables
*	1.2.7	Leader Cable	(Malaysia)	11KV XLPE Lead Sheathed Underground Cable (Up to 300mm ²)
*	1.2.8	PT.Prysmian	(Indonesia)	11kv 3X95, 3X185, 3X300 & 1X630mm Cu/XLPE/LS/DSTA/PVC Medium Voltage Lead Sheath Cable



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1.3 (i) LOW VOLTAGE CABLES AND PILOT CABLES (XLPE / SWA / PVC AND PVC / SWA / PVC)
(ii) LOW VOLTAGE AERIAL BUNDLE CONDUCTOR
(i) (ii) - PURPLE COLOUR

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	1.3.1	Iljin Cables	(Korea)	1. 600/1000V XLPE CABLES
✓	1.3.2	Kaiser	(Germany)	1. LV CABLES (XLPE/PVC INSULATION) LV
✓	1.3.3	L.K.H	(Brunei)	1. XLPE INSULATED ARMoured CABLE : 2C (16, 25, 35) mm sq., 4C (16,25,35,70,95,120,185,240)mm sq., 1C (400,500,630) mm sq., A) XLPE INSULATED ARMoured CABLE)2C 50mm sq) , 2. PVC INSULATED ARMoured CABLE : 2C (16,25,35)mm sq., 4C (16,25,35)mm sq B) PVC INSULATED ARMoured CABLE : 2C (1.5,2.5,4,6,10) mm sq., 4C (1.5,2.5,4,6,10) mm sq
*	1.3.4	Leader Cable	(Malaysia)	ABC Cable (Up to 185mm ² /4C + 25mm ²) 300 MCM Triplex 11KV Aerial Bundle Aluminium Conductor - (i) WARRANTY PERIOD OF THREE (3) YEARS LOW VOLTAGE CABLE, CU/XLPE/SWA/PVC Cable (Up to 4C x 240mm ²) & XLPE/PVC/AWA/PVC (1C x 500mm ²)
✓	1.3.5	Sigma	(Singapore)	
✓	1.3.6	Singapore Cable SCM	(Singapore)	XLPE / SWA / PVC AND PVC / SWA / PVC CABLES LOW VOLTAGE AERIAL BUNDLE CONDUCTOR (A) XLPE POWER CABLE (Up to 11KV)
✓	1.3.7	Universal	(Malaysia)	PILOT CABLE, FIRE RESISTANT CABLE, INSTRUMENT CABLE & CONTROL CABLE
*	1.3.8	Baosheng	(China)	LOW VOLTAGE CABLE, CU/XLPE/SWA/PVC Cable (Up to 4C x 240mm ²) & XLPE/PVC/AWA/PVC (1C x 500mm ²)



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1.4 MEDIUM / LOW VOLTAGE

i) TERMINATION & 66KV CABLE SEALING END KITS (INDOOR /OUTDOOR)

ii) JOINTING KITS (LOW VOLTAGE- 11KV / 66KV)

(i) (ii) - PURPLE COLOUR (SAME DESCRIPTION)

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	1.4.1	3M	(U.S.A)	
✓	1.4.2	Cellpack	(Switzerland)	
✓	1.4.3	Kabeldon	(Sweden)	
✓	1.4.4	Pirelli	(U.K)	
✓	1.4.5	RAYCHEM		
✓	1.4.6	REPL	(India)	1. 11KV Heat Shrinkable 3 Core Cable Termination (Indoor / Outdoor)
	1.4.7	REPL	(Malaysia)	1. Heat Shrinkable Cable Termination & Accessories (Outdoor / Indoor Termination for Voltage Level 11KV - 33KV)
✓	1.4.8	Sigmafom	(U.K)	
✓	1.4.9	Sucofit	(Switzerland)	Non -Tracking Outdoor Tubing / Heat - Shrinkable 11KV
	1.4.10	Suedkabel GMBH	(Germany)	1. 66KV XLPE/Lead Sheathed Cable 2. 66KV XLPE/ Cable Accessories : i) Outdoor / GIS Termination., ii) Normal / Insulated Joints / Cable Accessories : i) Outdoor / GIS Termination., ii) Normal / Insulated Joints
*	1.4.11	Nexans Italia SPA	(Italy)	1) Medium / Low Voltage , Termination & Jointing Kits



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1.5 EARTHING GRID SYSTEMS

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	1.5.1	Cadweld	(U.K)	
✓	1.5.2	Furse	(U.K)	
✓	1.5.3	Heng	(Singapore)	
✓	1.5.4	Unitech	(Singapore)	Copper Earth Rod, Corrosion Resistance, Copper Alloy Coupling, Special AB Clamp, BI-Metal Connector, Pure Copper Connector, Pure Aluminium Connector, High Strength Corrosion Resistance Copper Alloy Clamp.
✓	1.5.5	Wellflex (Earth Pit)	(U.K)	

1.6 BARE ALUMINUM CONDUCTORS

	NO	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	1.6.1	Leader	(Malaysia)	
✓	1.6.2	LG Tek	(Korea)	



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1.7 INSULATORS

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	1.7.1	NGK	(Japan, China)	
✓	1.7.2	Dalian	(China)	

1.8 SURGE ARRESTOR (LOW VOLTAGE / HIGH VOLTAGE)

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
	1.8.1	Toshiba	(Japan)	Surge Arrestor - RVLQC-75PLVY3
	1.8.2	ABB	(Sweden)	72.5KV



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2.1 MEDIUM VOLTAGE METALCLAD SWITCHGEARS (11KV TO 33KV) - AIR INSULATED METALCLAD SWITCHGEAR

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	2.1.1	Schneider Electric	(France /U.K)	Genie Evo 11KV Metalclad Switchgear
	2.1.2	Schneider Electric	(Indonesia)	MC Set (INDONESIA) Model AD2
	2.1.3	Toshiba	(Malaysia)	HV12
*	2.1.4	Siemens (NXPLUS C)	(Germany)	
*	2.1.5	Siemens (NXPLUS C)	(China)	(i) Conditional Approval, Maximum of 50 Units for Observation and Assesment within a period of five (5) years
*	2.1.6	Toshiba	(Malaysia)	(i) Conditional Approval, Maximum of 50 Units for Observation and Assesment within a period of five (5) years
*	2.1.7	ABB	(Malaysia)	Unigear ZS1



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2.2 11KV SF6 RING MAIN UNIT SWITCHGEARS

(i) 630A Extensible Modular

(ii) 630A Non- Extensible

(i) (ii) - PURPLE COLOUR (SAME DESCRIPTION)

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	2.2.1	Schneider Electric	(France /U.K)	11KV Extensible RMU Ringmaster Range (CE-BR7,CE6-BR7 & SE6-BS) 11KV Non-Extensible RMU Ringmaster Range both 2R1T (RN2C) & 2R2T (RE2C + CE2)
*	2.2.2	ABB	(India)	1) Non-Extensible Compact Ring Main Unit (ii) Conditional Approval with a Maximum of 50 Units for Observation and Assessment within a period of five (5) years.



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2.3 SUBSTATION EQUIPMENT - 72.5KV DEAD TANK AND LIVE TANK

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	2.3.1	Xian	(China)	72.5-500KV SF6 Live Tank Circuit Breaker with Integralcurrent Transformer, 72.5-550KV SF6 Gas Insulated Switchgear GIS
	2.3.2	Siemens	USA	3AP1DT (DTCB), SPS2-72.5kV (DTCB)
	2.3.3	Areva (GE)	USA	DT1-72.5 F1 (DTCB)
	2.3.4	Magrini Galileo (Siemens)	Italy	SB6-123 (LTCB)
	2.3.5	Merlin Gerin (Siemens)	Italy	SB6-72 (LTCB)
	2.3.6	Areva (GE)	Germany	GL309 F3/4031/VR or F1/4031/VR (LTCB)



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2.4 11KV / 0.433KV / 33KV DISTRIBUTION TRANSFORMERS & PADMOUNTED SUBSTATIONS

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	2.4.1	ABB	(Singapore)	11KV / 0.433KV/33KV
✓	2.4.2	Tira Thai	(Thailand)	200KVA-2000KVA / Tirathai, Distribution Transformer , 11KV/433-250V
✓	2.4.3	PT. Unindo	(Indonesia)	1000 kVA
*	2.4.4	Sesco Efacec	(Malaysia)	(i) Distribution Transformers 300kVA~1500kVA (ii) Conditional Approval with a Maximum of 50 Units for Observation & Assessment within a period of five (5) years.
*	2.4.5	Charoenchai	(Thailand)	Approved Vendor List under BPMC
*	2.4.6	Ekarat	(Thailand)	11KV Distribution Transformer - (300,500,800,1000,1500kVA)



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2.5 POWER TRANSFORMERS

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	2.5.1	Daihen	(Thailand)	Power Transformer 66/11KV & Similar Range from 3 to 100MVA (36 to 170KV)
✓	2.5.2	Fuji	(Japan)	
✓	2.5.3	Meidensha	(Japan)	
✓	2.5.4	Tira Thai	(Thailand)	Power Transformer
*	2.5.5	ABB LTD	(Vietnam)	ABB Oil Immersed Power Transformer >36-170kV, <63MVA

2.6 LOW VOLTAGE FEEDER PILLARS

i) Mini Feeder Pillars 400A

ii) Distribution Feeder Pillars 600A,800A,1200A,1600A

(i) (ii) - PURPLE COLOUR (SAME DESCRIPTION)

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	2.6.1	PKS	(Brunei)	(i) & (ii)
✓	2.6.2	Powertech	(Brunei)	(i)



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2.7 SUBSTATION EQUIPMENT

(i) BATTERY CELL (ii) CHARGERS

(i) (ii) - PURPLE COLOUR (SAME DESCRIPTION)

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
	2.7.1	Avatec	(Switzerland)	Niksa Battery Charger / UPS, Nica Nickel Cadmium Batteries & Leadline Acid Batteries
	2.7.2	Gutor	(Switzerland)	Lead Acid Battery & Nicad Battery Battery Charger
	2.7.3	Nimac	(Malaysia)	Battery Charger & Nickel - Cadmium Batteries
	2.7.4	SAFT Power	(Singapore)	1. Batteries (Nickel Cadmium / Lead Acid 2. Accessories / Spare Part Industrial Charges / Rectifiers & D.C System
	2.7.5	Chloride Batteries S.E.Asia Pte Limited	(Singapore)	CBC Range
	2.7.6	Chloride Lead Acid Batteries	(South Africa)	YCP
	2.7.7	Gaz	(Germany)	KM Range



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3.0 COLUMNS AND POLES

3.1 STREET / COMPOUND LIGHTING COLUMNS, TRANSMISSION & DISTRIBUTION POLES

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	3.1.1	Lysaght-Lycorpole (Lysaght Galvanized Steel)	(Malaysia)	Street Lighting Poles 6M,8M,12M,15M,20M
✓	3.1.2	Unik	(Malaysia)	Unik Street Lighting Poles & Columns & Poles Accessories (Normal Height 8M, 10M & 12M Flange Types)
	3.1.3	Galvapole	(Malaysia)	Octagonal Lighting Column -1.5 Single Arm Column
	3.1.4	Ningbo	(China)	Street Lighting Poles (6M, 8M,10M & 12M)



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3.2 ELECTRICAL POLES

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	3.2.1	Guangdong	(China)	28 & 35 Feet Tubular Steel Poles and Accessories
✓	3.2.2	Lysaght Galvanised Steel	(Malaysia)	28 Feet & 35 Feet Distribution Pole [Approval Granted for Transmission Poles 6M-50M]
	3.2.3	Ningbo	(China)	28 Feet & 35 Steel Turbular Poles [Distribution Poles] / 66KV Slim Poles - 1. Intermediate Pole (Planted Type), 2. >15-30 DEegree Angle Pole [Bolted Type], 3. >10-15 Degree Angle Pole [Bolted Type], 4.. > 30-60 Degree Angle Pole [Bolted Type], 5. >60-90 Degree Angle Pole [Bolted Type]



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4.0 LIGHTING SYSTEM

4.1 OUTDOOR LIGHT FITTING AND ACCESSORIES

4.1.1 HIGH PRESSURE SODIUM LANTERN

(i) LANTERN (ii) FLOODLIGHT

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	4.1.1.1	Fael (S.P.A)	(Italy)	Street Lighting Lantern 1. Fael Luce - Smart VP (70W - 150W) 2. Fael Luce-Itinera VP (150W-400W)
✓	4.1.1.2	Gewiss	(Italy)	item (ii) only
✓	4.1.1.3	Lithonia	(U.S.A)	High Pressure Sodium Lantern
✓	4.1.1.4	Philips	(Holland / Malaysia)	item (i) only for Malaysia SGP 338/250W and 400W only
✓	4.1.1.5	Schreder	(Belgium / Malaysia)	High Sodium Lantern
	4.1.1.6	Nikkon	(Malaysia)	Nikkon Street Lantern (Model HPS 250W S408 & HPS 150W S438) Malaysia
	4.1.1.7	Nikkon	(Malaysia)	1. Nikkon S419 (B) 150W, 2. Nikkon S419 (B) 250W 3. Nikkon S419 (B) 400W



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4.1.2 HIGH INTENSITY DISCHARGE LAMPS
(METAL HALIDE, HIGH PRESSURE SODIUM, MERCURY LAMPS)

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	4.1.2.1	GE	(Europe/U.S.A)	High Pressure Sodium
✓	4.1.2.2	Nikkon	(Japan)	
✓	4.1.2.3	Osram	(Europe/China)	High Intensity discharge Lamps
✓	4.1.2.4	Philips	(Holland/China)	High Intensity discharge Lamps
	4.1.2.5	GE	(U.S.A)	Mercury Lamps



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4.1.3 i) IGNITORS FOR HIGH PRESSURE LAMPS
(ii) BALLASTS FOR HIGH PRESSURE LAMPS

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	4.1.3.1	APF	(Italy)	Ignitors Ballast for High Pressure Lamp
✓	4.1.3.2	Atco	(Australia)	Ignitors Ballast for High Pressure Lamp
✓	4.1.3.3	Bagturgi	(Switzerland)	Ignitors item (i) only
✓	4.1.3.4	Layrton	(Spain)	Ballast for High Pressure Lamp
✓	4.1.3.5	Luxram	(Malaysia)	item (ii) only
✓	4.1.3.6	Nikkon	(Malaysia)	Ignitors Ballast for High Pressure Lamp
✓	4.1.3.7	Philips	(Holland/Netherland)	Ignitors Ballast for High Pressure Lamp
✓	4.1.3.8	Solex	(Malaysia)	Ignitors
✓	4.1.3.9	Teletronic	(Europe)	item (i) only
✓	4.1.3.10	Vossloh- Schwabe	(Germany)	Ignitors Ballast for High Pressure Lamp



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4.1.4 PHOTOCELLS

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	4.1.4.1	KAGA	(Japan)	
✓	4.1.4.2	Selcon	(Japan)	



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4.1.5 LED STREET LIGHTING / STREET LANTERN

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE / SERIES
*	4.1.5.1	Ecosparks	(Singapore)	EVAN 210W (ESL-220-730-50*140) LED Street Lantern for 12 Metres Height Street Lighting
*	4.1.5.2	Kingsun Optoelectronic Co.LTD	(China)	Kingsun-Appolo Series LED Street Light RL2R1084(180W) for 12Metres Height Street Lighting
*	4.1.5.3	NVC Lighting Technology Corporation	(China)	NVC Belfrey LED Street Lighting (180W) for 10Metres &12Metres Height Street Lighting
*	4.1.5.4	Oversea Lighting & Electric (M) SDn Bhd	(Malaysia)	OLE LED DURA ST 180W 5000K for 12 Metres Height Street Lighting
*	4.1.5.5	Philips Lighting PTE LTD	(Singapore)	Philips Roadflair BRP393 LED 240NW 200W 220-240V DWV for 12 Metres Height Stree Lighting
*	4.1.5.6	Oversea Lighting & Electric (M) SDn Bhd	(Malaysia)	OLE LED DURA ST 150W 5000K for 10 Metres Height Street Lighting



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5.1 i) AIR - CIRCUIT BREAKERS

ii) MOULDED CASE CIRCUIT BREAKERS

iii) CONTACTORS

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	5.1.1	F & G	(Germany)	
✓	5.1.2	Fuji	(Japan)	MAGNETIC CONTACTOR AND STARTER
✓	5.1.3	Hager	(France)	
✓	5.1.4	Hitachi	(Japan)	
✓	5.1.5	Hwa Shih item (ii) only	(Taiwan)	REGIS MODULED CASE CIRCUIT BREAKER (Regis NF100-MA 100A, Regis NF250-MA 225A, Regis NF400-HA 250A, 300A, 400A, Regis NF600-HA 500A)
✓	5.1.6	Legrand	(France)	
✓	5.1.7	Lemag	(Singapore)	
✓	5.1.8	LG	(Korea)	1. THREE POLE AIR CIRCUIT BREAKER LBA-16S-3EC 1600A (65KA), LBA-32S 3150A (65KA), LBA-32S-3EC 3150A (85KA) 1. MOLDED CASE CIRCUIT BREAKER (ABE 403b, ABS 403b, ABH 403b, ABL 403b, ABE 803b, ABS 803b, ABL 803b, 2. THREE POLE AIR CIRCUIT BREAKER LBA-16S-3EC 1600A (65KA), LBA-32S 3150A (65KA), LBA-32S-3EC 3150A (85KA), 3. THREE-POLE VACUUM CIRCUIT BREAKER SET IN METAL-ENCLOSURE 1. THREE POLE VACUUM CIRCUIT BREAKER SET IN METAL-ENCLOSURE 1. MAGNETIC CONTACTOR (GMC 100 & 125, GMC 150, GMS 150, GMC 150R, GMC 180, GMC 220, GMC 300, GMC 400, GMC 600, GMC 800)
✓	5.1.9	MEM	(U.K)	
✓	5.1.10	Merlin Gerin	(France)	
✓	5.1.11	Mitsubishi	(Japan)	
✓	5.1.12	Moeller	(Germany / Austria)	
✓	5.1.13	PDL	(Australia)	
✓	5.1.14	Schrack	(Austria)	

5.1 i) AIR - CIRCUIT BREAKERS**ii) MOULDED CASE CIRCUIT BREAKERS****iii) CONTACTORS**

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	5.1.15	Schupa	(Germany)	
✓	5.1.16	Siemens	(Germany)	
✓	5.1.17	Square D	(U.K)	
✓	5.1.18	Telemecanique	(France)	
✓	5.1.19	Terasaki	(Japan)	

5.2 CUT-OUT FUSE AND SEALING CHAMBERS

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	5.2.1	BICC	(U.K)	
✓	5.2.2	W.Lucy	(U.K)	11KV Volts SF6 Outdoor Ring Main Unit, LV Mini Feeder Pillar (Up to 400A)
✓	5.2.3	WT-Henley	(U.K)	

5.3 HRC FUSE LINKS

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	5.3.1	Bussman	(U.K)	
✓	5.3.2	Hawker	(U.K)	
✓	5.3.3	Lawson	(U.K)	





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6.1 DIESEL ENGINES

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	6.1.1	Cummins	(U.K /U.S.A)	
✓	6.1.2	Volvo	(Sweden)	

6.2 ALTERNATORS

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	6.2.1	Leroy Somer	(France/U.K)	
✓	6.2.2	Mecc-alte	(Italy)	



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7.0 METER

7.1 ENERGY METER

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
✓	7.1.1	Fuji	(Japan)	Electro Mechanical KWH 10-60A & 20-80A
✓	7.1.2	Landis & Gyr	(Switzerland/England/India)	Electro Mechanical KWH 10-60A & 20-80A
✓	7.1.3	Osaki	(Japan)	Electro Mechanical KWH Meter 20-80A
✓	7.1.4	PRI CT Meter	(U.K)	
	7.1.5	Actaris ACE6000	(France)	Electronic KWH Meter
✓	7.1.6	Osaki	(Indonesia)	Meter OB91 Series-1 Phase OQ93 Series-3 Phase Product
	7.1.7	Conlog	(South Africa)	1. Single Phase BEC 23 PLT, 2. Three Phase BEC 33
*	7.1.8	Landis + Gyr	(Singapore)	E350 Series Smart Meter :- (i) ZCF110ABeFs2 (Single Phase Electricity Meter) (ii) ZMF110ABeFs2 (Three Phase Electricity Meter)
*	7.1.9	Shenzhen Star Instrument	(China)	DTS27 Three Phase Four-Wire (3P4W) CT Operated Electronic Energy Meter Class 0.5S
*	7.1.10	Mitsubishi Electric Automation Co., Ltd	(Thailand)	Mitsubishi Electric Watthour Energy Meter, Type MH-36E Three-Phase Four -Wire (3P4W)



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7.2 PREPAYMENT METER

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
	7.2.1	Actaris	(South Africa)	[10-80A & 20-100A] / 1.) Actaris Model; ACE9000 ITP-3 Phase 2.) Talexus Actaris Model No. ED2B- 1 Phase
	7.2.2	Conlog	(South Africa)	[10-80A & 20-100A] / 1.) Phase BEC23PLT Prepayment Electricity Meter/ 2.) 3 Phase BEC33MCU Prepayment Electricity Meter
	7.2.3	Landis + Gyr	(South Africa)	1. 10-GM046 (1 PHASE) & 10-3P012 (3 PHASE) - SINGLE UNIT 2. 10-EM08 (1 PHASE) & 10 3P012 (3 PHASE) - SPLIT UNIT 3. 10-PL004(1 PHASE) & 10-3P206 (3 PHASE) PLC SPLIT
	7.2.4	Shenzhen Star	(China)	STS Prepayment Meter - 1 Phase (DDSY235) & 3 Phase (DTSY235)
	7.2.5	Conlog	(South Africa)	1. Conlog STS Prepayment Meter (BEC 62 (100A) -3ph) 2. Conlog STS Prepayment Meter (BEC33Hc(250A) -3ph Base on case by case basis)
*	7.2.6	Landis + Gyr	(Singapore)	E350 Series Smart Meter :- (i) ZCF110ABeFs2 (Single Phase Electricity Meter) (ii) ZMF110ABeFs2 (Three Phase Electricity Meter)
*	7.2.7	Shenzhen Star Instrument	(China)	DTS27 Three Phase Four-Wire (3P4W) CT Operated Electronic Energy Meter Class 0.5S
*	7.2.8	Mitsubishi Electric Automation Co., Ltd	(Thailand)	Mitsubishi Electric Watthour Energy Meter, Type M-36E Three-Phase Four -Wire (3P4W)



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8.0 DIESEL ENGINE (POWER STATION)

8.1 DIESEL ENGINE PARTS (MB DESIGN)

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
	8.1.1	Mirrlees Blackstone (MAN Diesel)	(U.K)	Assembler

8.2 DIESEL ENGINE PART REPAIR (MB DESIGN)

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
	8.2.1	Mirrlees Blackstone (MAN Diesel)	(U.K)	Assembler
	8.2.2	Asiapac PTE LTD	(Singapore)	Overhaul, Repair, Reconditioning, Modification or Servicing & Testing of Diesel Engine, Components

8.3 DIESEL ENGINE FIELD SERVICES (MB DESIGN)

	NO.	MANUFACTURER	COUNTRY OF ORIGIN	PRODUCT CATEGORY & RANGE
	8.3.1	Mirrlees Blackstone (MAN Diesel)	(U.K)	Assembler
	8.3.2	Asiapac PTE LTD	(Singapore)	Field Services