DEPARTMENT OF ELECTRICAL SERVICES
GENERAL LISTS OF APPROVED PRODUCTS / MANUFACTURERS FOR MECHANICAL AND ELECTRICAL INSTALLATIONS
REVISION 6TH MARCH 2023

1.0 POWER CABLES AND ACCESSORIES

1.1 66KV AND ABOVE

1.1.1 66KV AND ABOVE UNDERGROUND CABLEUNDERGROUND CABLE

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
1.1.1.1	Federal Powers	(Malaysia)	33KV & 66KV XLPE Underground Cables			
1.1.1.2	LG Tek	(Korea)				
1.1.1.3	Phelps Dodge Thailand Ltd	(Thailand)	66kV H.T. Power Cables		SYARIKAT BUMI EMAS	30 April 2002
1.1.1.4	Pirelli	(Italy / U.K)				
1.1.1.5	Taihan Cable Vina Co. Ltd (previously Taihan Sacom Company)	(Korea)	4C/300mm$_2$ XLPE/LSF CABLE 1C/25mm$_2$ XLPE/LSF CABLE 5C/4mm$_2$ XLPE/LSF CABLE			22 April 1999
1.1.1.6	Taihan Cable Vina Co. Ltd (previously Taihan Sacom Company)	(Korea)	8.7/15KV XLPE POWER CABLE (Up to 300SQMM)		L.K.H (B) SDN BHD	27 October 2016
1.1.1.7	LS-Vina	(Vietnam)	High Voltage Cables Up to 170KV (UP to conductor size 1000sqmm)		ASD ENGINEERING SDN BHD	18 May 2010
1.1.1.8	Suedkabel GMBH	(Germany)	66KV XLPE/Lead Sheathed Cable			20 November 2007
1.1.1.9	PCM	(Malaysia)	33KV & 66KV High Voltage Cables			
1.1.1.10	Ningbo Orient Wires	(China)	1C/630mm^{2}66KV Underground Cables		FRASER INTEL SOLUTIONS SDN BHD	4 April 2020
1.1.1.11	TBEA Shandong Luneng Taishan Cable Co., Ltd	(China)	TBEA 66KV Underground Cable 1. CU/XLPE/CAS/HDPE 2. CU/XLPE/LS/HDPE		SIVLI SDN BHD	1 March 2021
1.1.1.12	Suedkabel GMBH	(Germany)	1. 66KV XLPE/Lead Sheathed Cable			

1.1.2 66KV AND ABOVE OVERHEAD CABLE

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
1.1.2.1	Wuhan Sunni Electric Wire & Cable	(China)	ACSR Product Bare Conductor (AAAC & ACSR)		SYARIKAT PERUSAHAAN ZAIBA & ADIK - ADIK	1 March 2021

1.2 11KV

1.2.1 11KV UNDERGROUND CABLE

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
1.2.1.1	Federal Powers Sdn Bhd	(Malaysia)	11KV XLPE Underground Cables			16 December 2000
1.2.1.2	LG Tek	(Korea)				
1.2.1.3	Phelps Dodge Thailand Ltd	(Thailand)	11KV XLPE Underground Cables		SYARIKAT BUMI EMAS	3 May 2001
1.2.1.4	Pirelli	(Italy / U.K)				
1.2.1.5	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 3Cx300mm2		L.K.H (B) SDN BHD	11 Mac 1997
1.2.1.6	PCM	(Malaysia)	11KV XLPE Medium Voltage Cables			
1.2.1.7	Prysmian	(Italy)	AIRBAG CABLE 6.35/11KV (3C 95 SQMM HEPR/AIRBAG) 6.35/11KV (3C 185 SQMM XLPE/AIRBAG) & 6.35/11KV (3C 300SQMM HEPR/AIRBAG)			29 October 2001
1.2.1.8	Prysmian Cables Systems Pte Ltd	(Indonesia)	6350/11000V, 95mm² - 300mm², 3C/CU/HEPR/Polymeric Protection/PE-AIRBAG CABLE METER			20 December 2008
1.2.1.9	Leader Cable	(Malaysia)	11KV XLPE Lead Sheathed Underground Cable (Up to 300mm²)		LEADER CABLE	7 June 2017
1.2.1.10	PT.Prysmian	(Indonesia)	11kV 3X95, 3X185,3X300 & 1X630mm Cu/XLPE/LS/DSTA/PVC Medium Voltage Lead Sheath Cable	Include 3 years warranty	JYL LLEVEIRA ENTERPRISE	16 April 2018
1.2.1.11	Daewon	(Korea)	11KV XLPE LS Cable (Up to 300mm²/3C)			10 August 2017
1.2.1.12	Universal	(Malaysia)	XLPE POWER CABLE (Up to 11KV)			22 August 2006

1.2.2 11KV OVERHEAD LINES

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
1.2.2.1	Leader Cable Industry Berhad	(Malaysia)	300 MCM Triplex 11KV Aerial Bundle Aluminium Conductor			13 June 2017
1.2.2.2	Wuhan Sunni Electric Wire & Cable	(China)	Triplex Self Supporting Aerial Cables with Galvanized Steel Messenger Wire: 11KV 300MCM/3 Core		SYARIKAT PERUSAHAAN ZAIBA & ADIK - ADIK	14 December 2020
1.2.2.3	Wuhan Sunni Electric Wire & Cable	(China)	Triplex Self Supporting Aerial Cables with Galvanized Steel Messenger Wire: 1. 11KV, 3C/350mcm 2. 11KV, 3C/400mcm 3. 11KV, 3C/450mcm 4. 11KV, 3C/500mcm 5. 11KV, 3C/550mcm 6. 11KV, 3C/600mcm		SYARIKAT PERUSAHAAN ZAIBA & ADIK - ADIK	1 March 2021

1.3 LOW VOLTAGE

1.3.1 LOW VOLTAGE UNDERGROUND CABLE

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
1.3.1.1	Iljin Cables	(Korea)	1. 600/1000V XLPE CABLES			16 August 2000
1.3.1.2	Kaiser	(Germany)	1. LV CABLES (XLPE/PVC INSULATION			8 February 1985
1.3.1.3	Phelps Dodge Thailand Ltd	(Thailand)	600 / 1000V Low Voltage Cables		SYARIKAT BUMI EMAS	3 May 2001
1.3.1.4	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. 2. PVC INSULATED ARMOURED CABLE 2C (16,25,35)mm sq. 4C (16,25,35)mm sq.		L.K.H (B) SDN BHD	11 April 1998
1.3.1.5	L.K.H	(Brunei)	A) XLPE INSULATED ARMOURED CABLE 2C 50mm sq 4C 50mm 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.		L.K.H (B) SDN BHD	17 August 1998
1.3.1.6	Leader Cable Industry Berhad	(Malaysia)	LOW VOLTAGE CABLE CU/XLPE/SWA/PVC Cable (Up to 4C x 240mm^2) & XLPE/PVC/AWA/PVC (1C x 500mm^2) (UG)			13 June 2017
1.3.1.7	DRAKA SCM (Singapore Cable SCM)	(Singapore)	XLPE / SWA / PVC AND PVC / SWA / PVC CABLES (UG)			
1.3.1.8	Baosheng Science & Technology Innovation Co., Ltd	(China)	LOW VOLTAGE CABLE, CU/XLPE/SWA/PVC Cable (Up tp 4C x 240mm^2) & XLPE/PVC/AWA/PVC (1C x 500mm^2)			7 June 2017
1.3.1.9	Daewon Cable Co. Ltd	(Korea)	XLPE/SWA/PVC and PVC/SWA/PVC Low Voltage and Pilot Cables			21 October 2019
1.3.1.10	Olympic Cable	(Malaysia)	Cu/XLPE/SWA/PVC (up to 240mm^2) / 4C LV Cables		AST ENTERPRISE	25 March 2020
1.3.1.11	Sigma Cable Company Pte Ltd	(Singapore)	Sigma Fire Resistant Cable XSL-FR-600M SIGMA Fire Resistant Cables Size 2C x 1.5 mm2 to 4C x 400 mm2 XL-FR-600M SIGMA Fire Resistant Cables Size 2C x 1.5 mm2 to 4C x 400 mm2 XL-FR-600S SIGMA Fire Resistant Cables Size 1C x 2.5 mm2 to 1C x 630 mm2		FUNCTIONAL ENGINEERING SDN BHD	1 March 2021

1.3.2 LOW VOLTAGE OVERHEAD LINES

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
1.3.2.1	Leader Cable Industry Berhad	(Malaysia)	ABC Cable (Up to 185mm²/4C + 25mm²)			13 June 2017
1.3.2.2	DRAKA SCM (Singapore Cable SCM)	(Singapore)	LOW VOLTAGE AERIAL BUNDLE CONDUCTOR			
1.3.2.3	Universal	(Malaysia)	(A) XLPE POWER CABLE (Up to 11KV) PILOT CABLE, FIRE RESISTANT CABLE, INSTRUMENT CABLE & CONTROL CABLE			
1.3.2.4	Wuhan Sunni Electric Wire & Cable	(China)	Low Voltage Aerial Bundle Conductor - 4C/25 sqmm, 4C/35 sqmm, 4C/120 sqmm + 25 sqmm		SYARIKAT PERUSAHAAN ZAIBA & ADIK - ADIK	14 December 2020
1.3.2.5	Wuhan Sunni Electric Wire & Cable	(China)	Low Voltage Aerial Bundle Conductor - 4C/185 sqmm + 25 sqmm		SYARIKAT PERUSAHAAN ZAIBA & ADIK - ADIK	1 March 2021

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 DESCIPTION)

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
1.4.1	3M	(U.S.A)				
1.4.2	Cellpack	(Switzerland / Germany)				
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)			13 January 1999
1.4.7	REPL	(Malaysia)	1. Heat Shrinkable Cable Termination & Accessories (Outdoor / Indoor Termination for Voltage Level 11KV - 33KV)			28 January 2003
1.4.8	Sigmafom	(U.K)				
1.4.9	Sucofit	(Switzerland)	Non -Tracking Outdoor Tubing / Heat - Shrinkable 11KV			12 September 1998
1.4.10	Suedkabel GMBH	(Germany)	1. 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		RENNAH SERVICES SDN BHD	27 April 2017
1.4.12	NKT GmbH	(Germany)	Gas Insulated Switchgear (GIS) Termination Kit		B.H.F TECHNOLOGIES SDN BHD	15 December 2020

1.5 EARTHING GRID SYSTEMS

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
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 INSULATORS

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
1.6.1	NGK	(Japan, China)				
1.6.2	Dalian	(China)				

1.7 SURGE ARRESTOR (LOW VOLTAGE / HIGH VOLTAGE)

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
1.7.1	Toshiba	(Japan)	Surge Arrestor - RVLQC-75PLVY3		MEKAR CORP SDN BHD	26 January 2010
1.7.2	ABB	(Sweden)	72.5KV			

1.8 CABLE ACCESSORIES

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
1.8.1	TBEA Shandong Luoneng Taishan Cable Co., Ltd	(China)	Outdoor Termination with Porcelain Insulator for Polymeric Extruded Power Cable; Dry Type Cable Connection (L=491mm) for Transformer for Polymeric Extruded Power Cable; Dry Type Cable Connection (L=583mm) for Gas-Insulated Metal-Enclosed Switchgear for Polymeric Extruded Power Cable; Joint with Screen Interruption for Polymeric Extruded Power Cable		SIVLI SDN BHD	06 April 2021
1.8.2	Yongjiou Electirc Power Fitting Co. Ltd	(China)	Suspension Clamp Aerial Bundle Conductor (ABC) Dead End Clamp LV Series Insulator Piercing Connector (IPC or Line Tap) for Bare Conductor or ABC		DSC ENGINEERING COMPANY SDN BHD	06 April 2021

2.0 SWITCHGEARS

2.1 MEDIUM VOLTAGE METALCLAD SWITCHGEARS (11KV TO 33KV)

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
2.1.1	Schneider Electric	(France /U.K)	Genie Evo **11KV** Metalclad Switchgear			26-Feb-2005
2.1.2	Schneider Electric	(Indonesia)	MC Set (INDONESIA) Model AD2			24-Nov-2007
2.1.3	Toshiba	(Malaysia)	HV12			
2.1.4	Siemens	(Germany)	11kV Medium Voltage Metalclad Switchgear Panel NXPLUS C		INFRED ELECTRICAL & TRADING COMPANY	03 May 2017
2.1.5	Siemens	(China)	11kV Medium Voltage Metalclad Switchgear Panel NXPLUS C	Conditional Approval with a **maximum of 50 Units** for observation and Assessment **within a period of five (5) years**	INFRED ELECTRICAL & TRADING COMPANY	03 May 2017
2.1.6	Toshiba Transmission and Distribution Systems Asia Sdn Bhd	(Malaysia)	12kV/17.5Kv Metal-Clad VCB Type HVZ Series 2000A & 2500A		TOSHIBA TRANSMISSION & DISTRIBUTION SYSTEMS ASIA SDN BHD (BRUNEI BRANCH)	5 December 2022
2.1.7	ABB Malaysia Sdn Bhd	(Malaysia)	Unigear ZS1 Medium Voltage, Air Insulated Metalclad Switchgear		MULTI GUNA TECHNOLOGIES SDN BHD	03 May 2017
2.1.8	PT. Siemens	(Indonesia)	11kV Metalclad Switchgear Panel NXAIR Rated: 1250A and 2500A, 17.5kV.3sec	(i) Limitation supply of not more than Fifty (50) sets of switchgears only until futher notice	INFRED ELECTRICAL & TRADING COMPANY	18 September 2019

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 (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
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)			18-May-2010
2.2.2	Lucy	(U.K)	Ring Main Unit 11KV	Extended warranty of the RMU(s)	ESC GROUP SDN BHD	18 September 2019
2.2.3	ABB India Limited	(India)	1) Non-Extensible Compact Ring Main Unit	Conditional Approval with a **maximum of 50 Units** for observation and Assessment **within a period of five (5) years**	MULTI GUNA TECHNOLOGIES SDN BHD	27 April 2017

2.3 SUBSTATION EQUIPMENT - 72.5KV DEAD TANK AND LIVE TANK

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
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)			

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

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
2.4.1	ABB	(Singapore)	11KV / 0.433KV/33KV			
2.4.2	Ekarat Engineering PCL	(Thailand)	Oil Immersed Distribution Transformer 11kV 300kVA, 500kVA, 800kVA, 1000kVA, 1500kVA, 2000kVA		PERUSAHAAN WADURA	5 December 2022
2.4.3	Tira Thai	(Thailand)	200KVA-2000KVA / Tira thai, Distribution Transformer 11KV/433-250V			06 April 2000
2.4.4	PT. Unindo	(Indonesia)	1000 kVA			
2.4.5	Sesco Efacec Sdn Bhd	(Malaysia)	(i) Distribution Transformers 300kVA~1500kVA	Conditional Approval with a **maximum of 50 Units** for observation and Assessment **within a period of five (5) years**	L.K.H (B) SDN BHD (6 SEPTEMBER 2017)	27 April 2017
2.4.6	Charoenchai Transformer Co. Ltd	(Thailand)	Oil Immersed Distribution Transformer 300kVA - 1500kVA	Approved Vendor List BPMC	CORIS TRADING CO	27 April 2017
2.4.7	PT Bambang Djaja	(Indonesia)	B & D 11/0.433kV Power Distribution / Instrument Transformer		MULTIGUNA TECHNOLOGIES	21 October 2019

2.5 POWER TRANSFORMERS

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
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)				

2.6 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 (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
2.6.1	PKS	(Brunei)	(i) & (ii)			06 April 2000
2.6.2	Powertech	(Brunei)	(i)			
2.6.3	CE Industrial (B) Sdn Bhd	(Brunei)	400 TPN Mini Feeder Pillar - 6 Ways		CE INDUSTRIAL (B) SDN BHD	22 April 2019

2.7 SUBSTATION EQUIPMENT

(i) BATTERY CELL
(ii) CHARGERS
(i) (ii) - PURPLE COLOUR (SAME DESCRIPTION)

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
2.7.1	Avatec Power Pte Ltd	(Switzerland)	Niksa Battery Charger / UPS, Nica Nickel Cadmium Batteries & Leadline Acid Batteries			16 February 2010
2.7.2	Gutor	(Switzerland)	Lead Acid Battery & Nicad Battery Battery Charger			02 May 2001
2.7.3	Nimac	(Malaysia)	Battery Charger & Nickel - Cadmium Batteries			25 June 2008
2.7.4	SAFT Power Systems Pte Ltd	(Singapore)	1. Batteries (Nickel Cadmium / Lead Acid 2. Accessories / Spare Part Industrial Charges / Rectifiers & D.C System			16 February 2006
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			

3.0 COLUMNS AND POLES

3.1 STREET LIGHTING COLUMNS, TRANSMISSION & DISTRIBUTION POLES

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
3.1.1	Lysaght Galvanized Steel Bhd	(Malaysia)	Street Lighting Poles 6M,8M,12M,15M,20M		L.K.H (B) SDN BHD	18 January 2012
3.1.2	Lysaght Galvanized Steel Bhd	(Malaysia)	Street Lighting Poles 10M		L.K.H (B) SDN BHD	6 December 2012
3.1.3	Unik	(Malaysia)	Unik Street Lighting Poles & Columns & Poles Accessories (Normal Height 8M, 10M & 12M Flange Types)			
3.1.4	Galvapole	(Malaysia)	Octagonal Lighting Column -1.5 Single Arm Column			30 May 2006
3.1.5	Unik	(Brunei Darussalam)	8M, 10M and 12M Galvanised Street Lighting Columns		UNIK GALVANIZING & METAL PRODUCTS SDN BHD	5 September 2019

3.2 ELECTRICAL POLES

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
3.2.1	Guangdong	(China)	28 & 35 Feet Tubular Steel Poles and Accessories			
3.2.2	Lysaght Galvanized Steel Bhd	(Malaysia)	28 Feet & 35 Feet Distribution Pole [Approval Granted for Transmission Poles 6M-50M]		L.K.H (B) SDN BHD	6 March 2008
3.2.3	Unik	(Brunei Darussalam)	28 Ft and 35 Ft Galvanised Tubular Distribution Poles		UNIK GALVANIZING & METAL PRODUCTS SDN BHD	5 September 2019

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 (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
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	Success Electronics & Transformer Manufacturer Sdn Bhd	(Malaysia)	Nikkon Street Lantern (Model HPS 250W S408 & HPS 150W S438) Malaysia		PERUSAHAAN WADURA	23 January 2006
4.1.1.7	Success Electronics & Transformer Manufacturer Sdn Bhd	(Malaysia)	1. Nikkon S419 (B) 150W, 2. Nikkon S419 (B) 250W		PERUSAHAAN WADURA	18 January 2012
4.1.1.8	Success Electronics & Transformer Manufacturer Sdn Bhd	(Malaysia)	Nikkon S419 (B) 400W		PERUSAHAAN WADURA	23 November 2013

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

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
4.1.2.1	GE	(Europe/U.S.A)	High Pressure Sodium			
4.1.2.2	Osram	(Europe/China)	High Intensity discharge Lamps			
4.1.2.3	Philips	(Holland/China)	High Intensity discharge Lamps			
4.1.2.4	GE	(U.S.A)	Mercury Lamps			

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

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
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			25 July 2001
4.1.3.9	Teletronic	(Europe)	item (i) only			
4.1.3.10	Vossloh- Schwabe	(Germany)	Ignitors Ballast for High Pressure Lamp			
4.1.3.11	Nikkon	(Japan)	Nikkon Ignitors (Model - 9000, SP9003) Nikkon Sodium Ballast (Model - HPS-70W, HPS 100W, HPS 150W, HPS 400W) Nikkon Mercury Ballast (Model - HPMV 250W, HPMV 400W) Nikkon Metal Halide Ballast (Model - MH 70W, MH 150W, MH 250W, MH 400W)		PERUSAHAAN WADURA	22 March 2004

4.1.4 PHOTOCELLS

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
4.1.4.1	KAGA	(Japan)				
4.1.4.2	Selcon	(Japan)				

4.1.5 LED STREET LIGHTING / STREET LANTERN

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
4.1.5.1	Ecosparks	(Singapore)	EVAN 210W (ESL-220-730-50*140) LED Street Lantern for 12 Metres Height Street Lighting		LETECH TECHNOLOGIES	16 April 2018
4.1.5.2	Ecosparks	(Singapore)	EVAN210W (ESLA-210-730-50*140) LED Street Lantern for 10 Metres Height Street Lighting		LETECH TECHNOLOGIES	12 January 2019
4.1.5.3	Dongguan Kingsun Optoelectronic Co.LTD	(China)	Kingsun-Appolo Series LED Street Light RL2R1084(180W) for 12Metres Height Street Lighting	Evaluated on project to project basis (20 April 2013)	L.K.H (B) SDN BHD	23 April 2018
4.1.5.4	NVC Lighting Technology Corporation	(China)	NVC Belfrey LED Street Lighting (180W) for 10Metres &12Metres Height Street Lighting		DSC ENGINEERING SDN BHD	21 April 2018
4.1.5.5	Oversea Lighting & Electric (M) Sdn Bhd	(Malaysia)	OLE LED DURA ST 180W for 12 Metres Height Street Lighting		PERUSAHAAN WADURA	02 August 2018
4.1.5.6	Oversea Lighting & Electric (M) Sdn Bhd	(Malaysia)	OLE LED DURA ST 150W for 10 Metres Height Street Lighting		PERUSAHAAN WADURA	30 October 2018
4.1.5.7	Philips Lighting PTE LTD	(Singapore)	Philips Roadflair BRP393 LED 240NW 200W 220-240V DWV for 12 Metres Height Stree Lighting		SKYFIELD ENGINEERING COMPANY	02 August 2018
4.1.5.8	Straits Design Sdn Bhd	(Malaysia)	(i) SCHREDER TECEO 2 229W for 10 Metres Height Street Lighting (ii) SCHREDER TECEO 196W for 12 Metres Height Street Lighting (iii) SCHREDER AMPERA 245W for 10 Metres Height Street Lighting (iv) SCHREDER AMPERA 213W for 12 Metres Height Street Lighting		TASYA SDN BHD	18 Disember 2018
4.1.5.9	Unilumin Group Co., Ltd	(China)	(i) LEDOLPHIN P8 (B) 180W for 10 Metres Height Street Lighting and (ii) LEDOLPHIN 3535 (B) 180W for 12 Metres Height Street Lighting		SKYFIELD ENGINEERING COMPANY (5 JULY 2024)	21 October 2019
4.1.5.10	Shanghai Fujing Lighting Technology Co.Ltd	(China)	Fujing LED Street Light Lantern 180W (FJ-SL102-180W) for Street Lighting 12M Height Fujing LED Street Light Lantern 180W (FJ-SL102-180W) for STreet Lighting 10M Height		SYARIKAT PERUSAHAAN ZAIBA & ADIK - ADIK	1 March 2021
4.1.5.11	Davex Engineering (M) Sdn Bhd	(Malaysia)	DAVIS Helio SLH5 200W for 12M Pole Height DAVIS Helio SLH5 190W for 10M Pole Height DAVIS Helio SLH3 80W for 8M Pole Height		LETECH TECHNOLOGIES	17 November 2022
4.1.5.12	Shenzhen Dianming Tech Co., Ltd	(China)	Dianming LED Street Lantern - G9 - 150W (DMSL - G9) for 12M Pole Height		LEE JONG ELECTRICAL CO. SDN BHD	17 November 2022

5.0 BREAKERS, CONTACTORS, FUSE, FUSE LINKS & SWITCH DISCONNECTOR

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

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
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	(Taiwan)	item (ii) only: REGIS MODULED CASE CIRCUIT BREAKER (Regis NF100-MA 100A, Regis NF250-MA 225A, Regis NF400-HA 250A, 300A, 400A, Regis NF600-HA 500A)			1 December 2003
5.1.6	Legrand	(France)				
5.1.7	Lemag	(Singapore)				11 November 2000
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. MAGNETIC CONTACTOR (GMC 100 & 125, GMC 150, GMS 150, GMC 150R,GMC 180, GMC 220, GMC 300, GMC 400, GMC 600, GMC 800)			29 January 2004
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)				
5.1.15	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 (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
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)		ESC GROUP SDN BHD	
5.2.3	WT-Henley	(U.K)				

5.3 HRC FUSE LINKS

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
5.3.1	Bussman	(U.K)			HARUM KEJURUTERAAN	
5.3.2	Hawker	(U.K)				
5.3.3	Lawson	(U.K)				

5.4 SWITCH - DISCONNECTOR

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
5.4.1	Jean Muller Gmbh Elektrotechnische Fabrik	(Germany)	Jean Muller Fuse Switch - Disconnector		TSK SDN BHD	1 March 2021

6.0 ENGINES & ALTERNATORS

6.1 DIESEL ENGINES

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
6.1.1	Cummins	(U.K /U.S.A)				
6.1.2	Volvo	(Sweden)				

6.2 ALTERNATORS

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
6.2.1	Leroy Somer	(France/U.K)				
6.2.2	Mecc-alte	(Italy)				

7 METER

NO.	MANUFACTURER	COUNTRY of ORIGIN (Manufactured)	BRAND & MODEL	REMARKS (CONDITIONS of RECOMMENDATION)	APPOINTED LOCAL AGENT	DATE of APPROVAL / REGISTRATION
7.1	Conlog (Pty) Ltd	(South Africa)	1. Single Phase BEC 23 PLT 2. Three Phase BEC 33			
7.2	Conlog (Pty) Ltd	(South Africa)	[10-80A & 20-100A] 1.) Phase BEC23PLT Prepayment Electricity Meter 2.) 3 Phase BEC33MCU Prepayment Electricity Meter			12 September 2007
7.3	Conlog (Pty) Ltd	(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		
7.4	Conlog (Pty) Ltd	(South Africa)	1. BEC44 Single Phase 80/100 Amps (Wired Type) 2. WBEC44 Single Phase 80/100 Amps (Wireless Type)		Engicons Sdn Bhd	07 March 2022
7.5	Shenzhen Star Instrument	(China)	STS Prepayment Meter - 1 Phase (DDSY23S) & 3 Phase (DTSY23S)		LE-ENERGY SOLUTIONS SDN BHD	04 June 2011
7.6	Shenzhen Star Instrument	(China)	DTS27 Three Phase Four-Wire (3P4W) CT Operated Electronic Energy Meter Class 0.5S		LE-ENERGY SOLUTIONS SDN BHD	28 February 2018
7.7	Shenzhen Star Instrument Co., Ltd	(China)	DDSY23S Single Phase Two Wire Smart Energy Meter		LE-ENERGY SOLUTIONS SDN BHD	17 November 2022
7.8	Shenzhen Star Instrument Co., Ltd	(China)	DTSY23S Three Phase Four Wire Smart Energy Meter		LE-ENERGY SOLUTIONS SDN BHD	17 November 2022
7.9	Shenzhen Star Instrument Co., Ltd	(China)	DTS27 3P4W CT Energy Meter		LE-ENERGY SOLUTIONS SDN BHD	17 November 2022
7.10	Shenzhen Star Instrument Co., Ltd	(China)	1P2W DC Energy Meter		LE-ENERGY SOLUTIONS SDN BHD	17 November 2022
7.11	Landis + Gyr Pte Ltd	(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		LETECH TECHNOLOGIES	04 June 2011
7.12	Landis + Gyr Pte Ltd	(Singapore)	E350 Series Smart Meter :- (i) ZCF110ABeFs2 (Single Phase Electricity Meter) (ii) ZMF110ABeFs2 (Three Phase Electricity Meter)		LETECH TECHNOLOGIES	28 February 2018
7.13	Landis + Gyr Meters & System (Zhuhai) Co., Ltd	(China)	E550 Series Model 3 Phase Electiricty Meter		LETECH TECHNOLOGIES	07 March 2022
7.14	Landis + Gyr Pte Ltd	(Greece)	E850 Series Three Phase Electricity Precision Meter		LETECH TECHNOLOGIES	17 November 2022
7.15	Landis + Gyr Pte Ltd	(Greece)	E650 Series 4 Three Phase Industrial & Commercial Meter Class 0.5S		LETECH TECHNOLOGIES	23 December 2020
7.16	Landis + Gyr Pte Ltd	(Greece)	E350 Series Model Single and Three Phase Electricity Meter		LETECH TECHNOLOGIES	17 November 2022
7.17	Landis + Gyr Pte Ltd	(Greece)	E570 Series Model Three Phase Electiricty Meter		LETECH TECHNOLOGIES	17 November 2022
7.18	Landis + Gyr Pte Ltd	(Greece)	E650 Series Model Three Phase Electricity Meter		LETECH TECHNOLOGIES	17 November 2022
7.19	VSD Automation Sdn Bhd	(Malaysia)	a) HOLLEY DDSD285 Single Phase KWH Smart Electricity Meter b) HOLLEY DTSD545 Three Phase KWH Smart Electricity Meter		BEAVER ENGINEERING SDN BHD	17 November 2022
7.20	Kamstrup A/S	(Denmark)	Smart Electrical Metering Single Phase, Three Phase and CT Meter		EXCELTECH SOLUTIONS SDN BHD	2 March 2023