



**SECTION 1 - GUIDELINES IN ELECTRICAL AND ELECTRONIC EQUIPMENT  
BRAND SELECTION**

The following guidelines shall be used in the selection of electrical and electronic equipment brands.

**APPROVED ELECTRICAL AND ELECTRONIC EQUIPMENT BRANDS**

EQUIPMENT	APPROVED BRANDS
HV Power transformers 69kV and above	ABB, Cooper, Fuji, Hitachi, ILJIN, Koncar, Meiden, Mitsubishi, Philec, Schneider, Shihlin, Siemens, Takaoka, Tirathai, Toshiba, Hyundai*
HV (34.5kV & above) SF <sub>6</sub> circuit breakers	ABB, Alstom, Crompton Greaves, GE, Schneider, Siemens
HV Disconnect Switch	ABB, Crompton Greaves, GE Alstom, Hapam, S&C, SK Porter, Trench*
HV Station-type Lightning Arresters ≥13.2kV systems	ABB, Areva, Cooper, Crompton Greaves, GE, Joslyn, Ohio Brass, S&C, Siemens, Tri-delta
HV PTs and CTs (Instrument Transformers)	ABB, Crompton Greaves, Ritz, Schneider, Siemens, Trafindo
MV Power Transformer 3-Phase Delta – Wye Connection ≥ 4.16kV	ABB, Cooper, Koncar, Legrand (Dry-Type), Meiden, Mitsubishi, Philec, Schneider, Shihlin, Siemens, Takaoka, Tirathai
MV Distribution Transformers Single Phase Wye-Wye Connection ≥ 4.16kV	Pole-mounted units: ABB, Cooper, Legrand, Philec, Siemens, Schneider, Shihlin, Tirathai, Wagner (U.S.), SGB*
MV Capacitors and controllers	ABB, Legrand, Schneider, Siemens, Vacon, Vishay
MV Switchgear and Breakers: 40 kAIC (Voltage Rated up to 15kV) 30 kAIC (Voltage Rated above 15kV) a.) Non-fire hazardous areas: <ul style="list-style-type: none"> <li>• Sulfuric Hexafluoride 6 (SF<sub>6</sub>) type</li> <li>• Vacuum type (<i>optional to business unit</i>)</li> </ul> b.) Fire Hazardous areas: Vacuum type ( <i>for Petron depot/plants</i> )	<b>Type-tested brands only:</b> a.) <ul style="list-style-type: none"> <li>• ABB, Powerwell, Schneider</li> <li>• ABB, Eaton, Hyundai, Powerwell, Schneider, Siemens</li> </ul> b.) ABB, Eaton, Hyundai, Schneider, Siemens
MV Soft starter: 4.16 V or 6.6 kV	ABB, Allen-Bradley, AuCom, Mototronics with ABB, Allen-Bradley components, Schneider, Siemens, Solcon (No components from China)
MV cables: New cables (3-core type) Replacement Cables (single core type)	AETNA, Bahra, Duraflex (American Wire and Cable Co.), Gaon, Helukabel, Lappkabel, LiOA, LS Vina, OLEX, Phelps Dodge, Prysmian, Thipha Cable, Siemens
MV Frequency or DC drives	ABB, Allen-Bradley, Danfoss, Schneider, Siemens, Toshiba
MV PTs/CTs (Instrument transformers)	ABB, GE, Ritz, Schneider, Siemens
MV Lightning arresters (Intermediate / Distribution)	ABB, A.B. Chance, GE, Joslyn, Ohio Brass, S&C, Schneider, Siemens, Tri-delta
MV Load Break /Air Break Switches	ABB, A.B. Chance, Hapam, Joslyn, S&C, Schneider, Siemens



MV Electric motors	Non-China made: ABB, Allen-Bradley, Baldor, GE, Hitachi, Louis Allis, Reliance, Siemens, TECO, Toshiba, WEG, Marathon*
MV Power Fuses	ABB, A.B. Chance, GE, Joslyn, S&C, Schneider, Siemens
MV Airgap/SF <sub>6</sub> contactors	ABB, Schneider, Siemens
Protective Relay	ABB, Schneider (Vamp and Easergy), Siemens, SEL
<b>Line Insulators Assemblies</b>	<b>Aditya Birla, Dalian, Hubbell, Jocelyn Forge, Lapp, Maclean, NGK, Ohio Brass, Victor Gamma</b>
Power factor controllers	ABB, Legrand, Schneider, Siemens
Power meters	ABB, CEIEC Electric Technology (LV Only), GE, Legrand, PML, Power Logic, Schneider, Siemens, Telemecanique
LV Circuit breakers For 440V: minimum of 50 KAIC For 220V: minimum of 65 KAIC	ABB, Allen-Bradley, Cutler-Hammer, GE, Klockner-Moeller, Legrand, Mitsubishi, Schneider, Siemens
LV Magnetic contactors and LV Motor Protector (Thermal and Magnetic)	ABB, Allen-Bradley, Klockner-Moeller, Legrand, Siemens
LV Electric motors (Including replacement of old/damaged motors) – at least 90% efficiency	ABB, Baldor, Danfoss, Grundfos, Hitachi, <b>OME</b> , Siemens, Sumitomo, Süddeutsche Elektromotoren Werke (SEW), TECO, Toshiba, Yaskawa, WEG, Becker*, Bonfiglioli*, Kuenle*, Marathon*, Rietschle*
LV Motor Control Centers: Semi or Fully withdrawable type	ABB, Peppers, Rittal, Schneider, Siemens, Weidmuller Locally Made (Fully / Semi withdrawable type module): AGA, Asia Phil, Control Gear, Fujihaya, Powerbox
LV Switchgear	ABB, Schneider, Siemens Locally Made (Fully / Semi withdrawable type): AGA, Asia Phil, Control Gear, EBAX, Edison, Fujihaya, <b>Gemcor</b> , Gentec, <b>Gtech</b> , Powerbox, <b>Powerwell</b> , Gathergates*
LV Submersible motors	Franklin motors, Grundfos & Plueger, Peerless, US Motors
LV Power, Control, and Submersible Cables	AETNA, Bahra, Belden, Duraflex (American Wire & Cable Co), Halukabel, KMI, Lapp-kabel, LiOA, LS Vina, OLEX, Phelps Dodge, PIRELLI, Pyrotec, Top Cable
LV Communication Cables	Belden, Halukabel, Lapp-kabel
LV Capacitors and controllers, AVR's	ABB, Eaton, GE, Legrand, Protec, Siemens, Vacon, Vishay, Schneider
LV Frequency drives / softstarters	ABB, Allen-Bradley, AuCom, Danfoss, Fuji, Hitachi, Lenze, Mitsubishi, Nidec, Omron, Schneider, Siemens, Toshiba, Vacon, Yaskawa
LV Indicating instruments	G.E., Krompton, Legrand, Telemecanique, Schneider, Siemens, Yokogawa



LV Step-down transformers (440/220V)	Challenger, Delta-star, Dongan, Fedcor/Philec, GE, Hevi-duty, Schneider, Shihlin
LV lightning arresters	Absorption type: Protec, Sentinel, Delta-com* <b>ESE: ABB, Indelec</b> Dissipation Type: LMC (for fire hazards) -IEC type-tested, UL Listed test results
Programmable Logic Controllers (PLCs)	ABB, Allen-Bradley, Danfoss, Festo, GE, Honeywell, Idec, Keyence, Logix, Mitsubishi, Omron, Peppers, Rittal, Schneider, Siemens, Weidmuller, Yokogawa
Grounding Materials	A.B. Chance, Caldwell, <b>Exoweld</b> , Kumwell, Peppers, Rittal, Weidmuller
Transient Voltage Surge Suppressors	ASCO, Peppers, Rittal, Weidmuller
Termination and Splicing Kits	3M, Peppers, Raychem, Rittal, Weidmuller
Terminal Lugs	3M, Burndy, Lapp, Panduit, Peppers, Rittal, Weidmuller
Station Batteries (Industrial Type)	Motolite, Siemens, others must be with $\geq$ 5-year warranty
UPS System	ABB, Eaton, Emerson, Gamatronic, GE, Legrand, Lievert, Peppers, Rittal, Schneider, Siemens, Weidmuller
Lighting Fixture	Appleton, Britech, Cooper-Crosshinds, Dialight, <b>Formosa</b> , G.E, Philips, Thorn
Fire Detection Alarm System	Aritech, <b>BOSCH</b> , Cooper, Edwards, Hochiki, Kiddie, Siemens, Simplex
Wiring Devices	Appleton, Gewiss, Hubbel, Legrand, McGill, Mennekes, Panasonic, Schneider
Pipes and Conduit	uPVC: Atlanta, Moldex, Neltex IMC, RCS, EMT: CrossHinds, Matsushita, McGill, Panasonic, Rexway

**RECOMMENDED INSTRUMENTATION AND CONTROL EQUIPMENT BRANDS**

EQUIPMENT	RECOMMENDED BRANDS
Positive Displacement Flowmeters	FMC, Siemens
Temperature sensor (RTD, Pt1000, Pt1000) And Thermocouples	ABB (A&H), Danfoss, Efector, Frick, Jumo, Pyromation, Pyrosale, Siemens, Yokogawa, Honeywell
Electromagnetic Flowmeters	ABB, Burkert (Liquid), Danfoss, Siemens, Yokogawa, Honeywell, CDI*
Pressure transmitter for level, volume, lines	4Matic, ABB, Endres & Hausen, Frick, Johnson Controls, Rosemount, Siemens, Yokogawa
Pressure repeater for level	Eckardt
Capacitive sensor/switches	ABB, Efector, Endress & Hausen, Negele, P&F, Sick, Siemens, Turck
DO meters	ABB, Burkert, DGOX, Siemens, Yokogawa



Recorders (charts, paperless & traveling-types)	ABB, PMKL, Warren, Yokogawa, Honeywell
Universal Controllers/Indicators	4Matic, ABB, Ascon, Hengstler, Honeywell, Peppers, Rittal, Sensycon, Taylor, Weidmuller, Yamatake, Yokogawa
Ultrasonic Instruments	ABB, Festo, Mobrey, Siemens/Millstronics
I to P controllers/converters	Masoneilan, Samson, Sensycon, Yamatake
Modulating/Regulating valves	4Matic, Bardony, Masoneilan, Samson, Sensycon, Spirax, Taylor
Pressure gauges	Afriso, Aschroft, Bourdon, Haenni, McDaniel, Siemens, Spirax, Tel-tru, Wika
Pressure switches	4Matic, Burkert, Festo, Herion, Schneider, SMC Pneumatics, United Electric
Pneumatic products	Burkert, Bosch, Festo, Herion, Joucomatic, Legris, Parker, Pisco, SMC Pneumatics
Pneumatic actuators/cylinders	Burkert, Festo, Guth, Keystone, Norgen, Saunders, Sudmo
Solenoids	Burkert, Danfoss, Festo, SMC Pneumatics, Uni-D
Electronic relays, timers	Finder, Omron, Phoenix Contact, Peppers, Rittal, Telemecanique, Turck, Weidmuller
Methane flowmeter/transmitter	Drager
Thermometers (alcohol-filled)	Hunter
Load Cell	Cardinal, GWT, Kistler Morse, Toledo

**Note:**

\* For evaluation

**General:**

**A. Acceptance of Offers.**

This standard shall be used for replacement of existing equipment installations and acquisition of new items.

**B. Criteria for brand selection**

1. Availability of local service support (OEM or duly-appointed service company)
2. Availability of basic spare parts
3. Offers free servicing and troubleshooting beyond warranty period

New brands shall be subject to approval by ARCHEN POWER & ENERGY GROUP.

The list of approved and recommended brands will be updated periodically. The above guidelines are **for strict implementation and compliance.**

**THIS REFERENCE IS BASED UPON CONSENSUS OF THE NATIONAL ASSEMBLY OF ELECTRICAL ENGINEERS/PRACTITIONERS ON NOVEMBER 25, 2024 HELD AT PASIG CITY.**

*\*Interim Brand Selection Guidelines as of November 25, 2024.*



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