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| **ตารางรายการอุปกรณ์หลักในงานจ้างก่อสร้างสถานีไฟฟ้า (Product Lists)**   | **หมายเลขอ้างอิง** | **ผลิตภัณฑ์** | | --- | --- | | **PL-01** | **115 kV Circuit Breaker** | | **PL-02** | **115 kV Disconnecting Switch** | | A. 115 kV Disconnecting Switch without Ground Switch | | B. 115 kV Disconnecting Switch with Ground Switch | | C. 115 kV Ground Switch | | **PL-03** | **115 kV Lightning Arrester** | | **PL-04** | **115 kV Current Transformer** | | **PL-05** | **115 kV Voltage Transformer (IVT)** | | **PL-06** | **115 kV Control and Protection Board** | | **PL-07** | **115 kV Capacitor Bank** | |  | A. CAPACITOR UNIT (6.9 kV, 200 kVar) | |  | B. CAPACITOR UNIT (6.9 kV, 400 kVar) | |  | C. 115 kV CIRCUIT BREAKER for 115 kV Capacitor Bank | |  | D. CURRENT LIMITING REACTORS for 115 kV Capacitor Bank | |  | E. SURGE ARRESTER for 115 kV Capacitor Bank | | **PL-08** | **Insulator Unit** | | A. Insulator Unit (Suspension Type, Class 52-3) | | B. Insulator Unit (Suspension Type, Class 52-8) | | C. Insulator Unit (Station Post Type No. TR-202) | | D. Insulator Unit (Station Post Type No. TR-286) | | **PL-09** | **22 kV, 33 kV Surge Arrester** | | A. 22 kV Surge Arrester | | B. 33 kV Surge Arrester | | **PL-10** | **22 kV, 33 kV Disconnecting Switches** | | A. 22 kV Disconnecting Switches | | B. 33 kV Disconnecting Switches | | **PL-11** | **22 kV, 33 kV Indoor Switchgear** | | A. 22 kV Indoor Switchgear (AIS) | | B. 22 kV Gas Insulated Switchgear (GIS) | | C. 33 kV Gas Insulated Switchgear (GIS) | | **PL-12** | **22 kV, 33 kV Protective Device** | | A. Feeder Management protection | | B. Feeder Management protection + HIF | | C. Arc Detection System | | **PL-13** | **22 kV, 33 kV Underground Power cable** | | A. 22 kV Underground Power cable 95 Sq.mm. | | B. 22 kV Underground Power cable 240 Sq.mm. | | C. 22 kV Underground Power cable 400 Sq.mm. | | D. 22 kV Underground Power cable 500 Sq.mm. | | E. 33 kV Underground Power cable 95 Sq.mm. | | F. 33 kV Underground Power cable 240 Sq.mm. | | G. 33 kV Underground Power cable 400 Sq.mm. | | H. 33 kV Underground Power cable 500 Sq.mm. | | **PL-14** | **AC Distribution Boards** | | **PL-15** | **DC Distribution Boards** |  |  |  | | --- | --- | | **หมายเลขอ้างอิง** | **ผลิตภัณฑ์** | | **PL-16** | **Battery Charger** | | A. Battery Charger 1 phase | | B. Battery Charger 3 phase | | **PL-17** | **Battery** | | **PL-18** | **Station Service Transformer** | | **PL-19** | **Low voltage Power Cable** | | A. Low voltage Power Cable - VCT 2 x 10 Sq.mm. | | B. Low voltage Power Cable - VCT 2 x 16 Sq.mm. | | C. Low voltage Power Cable - NYY 1 x 25 Sq.mm. | | D. Low voltage Power Cable - NYY 1 x 120 Sq.mm. | | **PL-20** | **Control Cable** | | A. Control Cable - CVVS 2 x 4 Sq.mm. | | B. Control Cable - CVVS 2 x 6 Sq.mm | | C. Control Cable - CVVS 4 x 2.5 Sq.mm | | D. Control Cable - CVVS 4 x 4 Sq.mm | | E. Control Cable - CVVS 4 x 6 Sq.mm. | | F. Control Cable - CVVS 12 x 2.5 Sq.mm. | | G. Control Cable - CVVS 12 x 4 Sq.mm. | | **PL-21** | **22 kV, 33 kV Cable Termination Kit** | | A. 22 kV Indoor Termination Kit | | B. 22 kV plug-in Termination Kit | | C. 22 kV Outdoor Termination Kit | | D. 33 kV plug-in Termination Kit | | E. 33 kV Outdoor Termination Kit | | **PL-22** | **22 kV, 33 kV Automatic switching capacitor bank** | | A. 22 kV Automatic switching capacitor bank | | B. 33 kV Automatic switching capacitor bank | | **PL-23** | **Power Transformer** | | A. OLTC Power Transformer 3 phase, 115-22 kV, 15/20/25 MVA (Dyn1) | | B. OLTC Power Transformer 3 phase, 115-22 kV, 15/20/25 MVA (YNyn0(d1)) | | C. OLTC Power Transformer 3 phase, 115-33 kV, 15/20/25 MVA (YNyn0(d1)) | | D. OLTC Power Transformer 3 phase, 115-22 kV, 30/40/50 MVA (Dyn1) | | E. OLTC Power Transformer 3 phase, 115-22 kV, 30/40/50 MVA (YNyn0(d1)) | | F. OLTC Power Transformer 3 phase, 115-33 kV, 30/40/50 MVA (YNyn0(d1)) | | **PL-24** | **115 kV SF6 Gas Insulated Switchgear** | | **PL-25** | **CSCS** | | **PL-26** | **115 kV Underground Power Cable** | | **PL-27** | **115 kV Cable Termination Kit** | | A. 115 kV Cable Termination Kit (Outdoor) | | B. 115 kV Cable Termination Kit (Indoor) | | C. 115 kV Cable Termination Kit (Joint) | | **PL-28** | **Mixed Technology Switchgear (MTS) / 115 kV Compact Switchgear Specification** | | A. Mixed Technology Switchgear (MTS) with Voltage Transformer | | B. Mixed Technology Switchgear (MTS) without Voltage Transformer |  |  |  | | --- | --- | | **หมายเลขอ้างอิง** | **ผลิตภัณฑ์** | | **PL-29** | **115 kV Protective Device** | | A. Bus differential protection (87B) | | B. Line differential protection (87L) | | C. Distance protection (21/21N) | | D. Transformer differential protection (87T) | | **PL-30** | **SCPS** | | A. Digital Fault Recorder | | B. IED Bay Control Unit (BCU) | | C. Merging Unit/Smart I/O | | D. Network Equipment of SCPS : Ethernet switch for station Level | | E. Network Equipment of SCPS : Ethernet switch for process Level | | F. Network Equipment of SCPS : Ethernet switch for Redundancy | | G. Network Equipment of SCPS : Time Data Server | | H. Station Level Equipment of SCPS : Software for SCPS Server | | I. Station Level Equipment of SCPS : Software for SCPS gateway | | J. Station Level Equipment of SCPS : Data Protection Management System | | K. Panel : 115 kV Control and Protection Panel | | L. Panel : 115 kV Merging Unit Panel | | M. Panel : Equipment Panel | | N. Cyber Security | |