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| **ตารางรายการอุปกรณ์หลักในงานจ้างก่อสร้างสถานีไฟฟ้า (Product Lists)**

| **หมายเลขอ้างอิง** | **ผลิตภัณฑ์** |
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| **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** |

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| **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 |

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| **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 |

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