

| <p>ประมาณการราคางานก่อสร้างสถานีไฟฟ้า ประจำปี 2565</p> <p>คพจ.2 : สถานีไฟฟ้าขอนแก่น 6 จ.ขอนแก่น (KKF)</p> <p>115-22kV GIS Double Bus Single Breaker , 1x50 MVA , 1 Line</p> | | | | | | | |
|---|---|----------|------|------------|------------|--------------|--------------|
| Item | Description | Quantity | Unit | Part A | Part A | Part B | Part B |
| | | | | Equipment | Equipment | Installation | Installation |
| | | | | (Baht) | (Baht) | (Baht) | (Baht) |
| | | | | Unit Price | Total | Unit Price | Total |
| 1 | POWER TRANSFORMERS | | | | | | |
| 1.1 | On-load tap-changing power transformer three-phase, 115-22 kV, 15/20/25 MVA (Dym1) (Included 115 kV Lightning arrester, Surge counter and Remote control cubicle) | | Unit | | | | |
| 1.2 | On-load tap-changing power transformer three-phase, 115-22 kV, 15/20/25 MVA (YNyn0(d1)) (Included 115 kV Lightning arrester, Surge counter and Remote control cubicle) | | Unit | | | | |
| 1.3 | On-load tap-changing power transformer three-phase, 115-22 kV, 30/40/50 MVA (Dym1) (Included 115 kV Lightning arrester, Surge counter and Remote control cubicle) | | Unit | | | | |
| 1.4 | On-load tap-changing power transformer three-phase, 115-22 kV, 30/40/50 MVA (YNyn0(d1)) (Included 115 kV Lightning arrester, Surge counter and Remote control cubicle) | 1 | Unit | 27,820,302 | 27,820,302 | 476,940 | 476,940 |
| 1.5 | On-load tap-changing power transformer three-phase, 115-33 kV, 15/20/25 MVA (YNyn0(d1)) (Included 115 kV Lightning arrester, Surge counter and Remote control cubicle) | | Unit | | | | |
| 1.6 | On-load tap-changing power transformer three-phase, 115-33 kV, 30/40/50 MVA (YNyn0(d1)) (Included 115 kV Lightning arrester, Surge counter and Remote control cubicle) | | Unit | | | | |
| 1.7 | Remote control cubicle | | Unit | | | | |
| 2 | 115 kV GAS INSULATED SWITCHGEAR | | | | | | |
| 2.1 | Line bay, 40 kA Included local control board and SF6-gas service panels | 1 | Unit | 14,198,624 | 14,198,624 | 205,912 | 205,912 |
| 2.2 | Bus coupling bay (include Bus-PT). 40 kA Included local control board and SF6-gas service panels | 1 | Unit | 15,570,203 | 15,570,203 | 205,912 | 205,912 |
| 2.3 | Transformer bay, 40 kA Included local control board and SF6-gas service panels | 1 | Unit | 14,026,005 | 14,026,005 | 205,912 | 205,912 |
| 2.4 | Bus Gas Buffer Module | 2 | Unit | 146,145 | 292,290 | 2,922 | 5,844 |
| 3 | 115 kV CIRCUIT BREAKER | | | | | | |
| 4 | DISCONNECTING SWITCH | | | | | | |
| 4.1 | 115 kV disconnecting switch, three-pole, without grounding switch. | | Unit | | | | |
| 4.2 | 115 kV disconnecting switch, three-pole, with grounding switch. | | Unit | | | | |
| 4.3 | 115 kV Earthing switch, three-pole. | | Unit | | | | |
| 4.4 | 22 kV disconnecting switch, single-pole, hook-operated, Station class for riser pole | 30 | Unit | 5,251 | 157,530 | 1,054 | 31,620 |
| 4.5 | 22 kV disconnecting switch, single-pole, hook-operated, Station class for incoming, 2,000 A | | Unit | | | | |
| 4.6 | 33 kV disconnecting switch, single-pole, hook-operated, Station class | | Unit | | | | |
| 4.7 | 33 kV disconnecting switch, single-pole, hook-operated, Station class for incoming, 1,200 A | | Unit | | | | |
| 4.8 | 22 kV Cut-out, Fuse, Open type, Single insulator, Dropout | | Unit | | | | |
| 4.9 | 33 kV Cut-out, Fuse, Open type, Single insulator, Dropout | | Unit | | | | |
| 5 | LIGHTNING ARRESTER | | | | | | |
| 5.1 | 115 kV Lightning arrester, single-phase (included surge counter) | | Unit | | | | |
| 5.2 | 22 kV Lightning arrester, single-phase, Station class | 30 | Unit | 15,059 | 451,770 | 1,597 | 47,910 |
| 5.3 | 33 kV Lightning arrester, single-phase, Station class | | Unit | | | | |
| 6 | INSTRUMENT TRANSFORMER | | | | | | |
| 7 | PROTECTION AND CONTROL PANEL | | | | | | |
| | <i>GIS Double Bus Single Breaker 115 kV Swing rack type control and protection relay switchboard for :</i> | | | | | | |
| 7.4 | Bus Coupling Breaker panel (BCP) | 1 | Unit | 1,334,750 | 1,334,750 | 27,115 | 27,115 |
| 7.5 | Bus zone protection panel (BZP) | 1 | Unit | 1,390,363 | 1,390,363 | 29,793 | 29,793 |
| 7.6 | 115 kV Line relay protection and Control panel. (LRP & LCP) | 1 | Unit | 1,523,066 | 1,523,066 | 51,956 | 51,956 |
| 7.7 | 115 kV Transformer protection and Control panel. (TPP & TCP) | 1 | Unit | 1,376,091 | 1,376,091 | 51,020 | 51,020 |
| 8 | INDOOR SWITCHGEAR | | | | | | |
| 8.1 | 22 kV Incoming cubicle | 2 | Unit | 1,529,397 | 3,058,794 | 11,684 | 23,368 |
| 8.2 | 22 kV Outgoing cubicle | 10 | Unit | 1,249,962 | 12,499,620 | 11,684 | 116,840 |
| 8.3 | 22 kV Bus coupler cubicle | 1 | Unit | 1,355,809 | 1,355,809 | 11,684 | 11,684 |
| 8.4 | 22 kV Bus riser cubicle | | Unit | | | | |
| 8.5 | 22 kV PT for synchronize bus bar protection cubicle | 1 | Unit | 854,135 | 854,135 | 10,069 | 10,069 |
| 8.6 | 22 kV PT for synchronize bus bar protection cubicle (included bus riser cubicle) | 1 | Unit | 1,234,613 | 1,234,613 | 10,396 | 10,396 |
| 8.7 | 22 kV Capacitor bank cubicle | 2 | Unit | 1,237,165 | 2,474,330 | 11,684 | 23,368 |
| 8.8 | 22 kV Station service transformer unit cubicle | 2 | Unit | 776,748 | 1,553,496 | 10,396 | 20,792 |
| 8.9 | 22 kV Dummy cubicle Or Bus adaptor | 1 | Lot | 109,929 | 109,929 | 6,162 | 6,162 |
| 8.10 | 22 kV Arc detection system equipment for 5 outgoing | | Lot | | | | |
| 8.11 | 22 kV Arc detection system equipment for 10 outgoing | 1 | Lot | 1,627,398 | 1,627,398 | 13,004 | 13,004 |
| 8.12 | 33 kV Incoming cubicle | | Unit | | | | |
| 8.13 | 33 kV Outgoing cubicle | | Unit | | | | |
| 8.14 | 33 kV Bus coupler cubicle (included bus riser cubicle) | | Unit | | | | |
| 8.15 | 33 kV PT for synchronize | | Unit | | | | |
| 8.16 | 33 kV Capacitor bank cubicle | | Unit | | | | |
| 8.17 | 33 kV Station service transformer unit cubicle | | Unit | | | | |
| 8.18 | 33 kV Dummy cubicle Or Bus adaptor | | Lot | | | | |
| 9 | POWER SUPPLY | | | | | | |
| 9.1 | Station service transformer, oil-immersed type, three-phase, 100 kVA, 22,000-416/240 VAC, 50 Hz, with cable connection boxes, for outdoor installation | 2 | Unit | 180,339 | 360,678 | 9,675 | 19,350 |
| 9.2 | Station service transformer, oil-immersed type, three-phase, 100 kVA, 33,000-416/240 VAC, 50 Hz, with cable connection boxes, for outdoor installation | | Unit | | | | |
| 9.3 | AC distribution board. | 2 | Unit | 355,408 | 710,816 | 6,683 | 13,366 |
| 9.4 | DC distribution board, for 125 VDC system. | 2 | Unit | 242,445 | 484,890 | 5,714 | 11,428 |
| 9.5 | 125 VDC. Battery charger. | 2 | Unit | 154,233 | 308,466 | 5,651 | 11,302 |
| 9.6 | Battery, for 125 VDC system. | | | | | | |

| Item | Description | Quantity | Unit | Part A | Part A | Part B | Part B |
|-------|---|----------|------|--------------------------|------------|--------------|--------------|
| | | | | Equipment | Equipment | Installation | Installation |
| | | | | (Baht) | (Baht) | (Baht) | (Baht) |
| | | | | Unit Price | Total | Unit Price | Total |
| | - Breaker and a half | | Lot | | | | |
| | - Main and transfer | | Lot | | | | |
| | - GIS: Double Bus Single Breaker | 1 | Lot | 875,570 | 875,570 | 11,542 | 11,542 |
| | - MTS/Conventional H-Config. (Outdoor/Indoor) | | Lot | | | | |
| 10 | CABLE AND TERMINATION KIT | | | | | | |
| 10.1 | 115 kV XLPE power cable, 800 sq.mm. | 126 | m | 6,262 | 789,012 | 191 | 24,066 |
| 10.2 | 22 kV XLPE power cable, 500 sq.mm. | 252 | m | 2,841 | 715,932 | 81 | 20,412 |
| 10.3 | 22 kV XLPE power cable, 400 sq.mm. | 5652 | m | 2,421 | 13,683,492 | 75 | 423,900 |
| 10.4 | 22 kV XLPE power cable, 240 sq.mm. | 180 | m | 1,723 | 310,140 | 62 | 11,160 |
| 10.5 | 22 kV XLPE power cable, 95 sq.mm. | 348 | m | 769 | 267,612 | 55 | 19,140 |
| 10.6 | 115 kV Outdoor cable termination kit, for XLPE power cable 800 sq.mm. Completed with accessories. | 3 | Set | 102,600 | 307,800 | 23,936 | 71,808 |
| 10.7 | 115 kV Indoor cable termination kit, for XLPE power cable 800 sq.mm. Completed with accessories. | 3 | Set | 203,396 | 610,188 | 24,990 | 74,970 |
| 10.8 | 22 kV Outdoor cable termination kit, for XLPE power cable 500 sq.mm. Completed with accessories. | 6 | Set | 3,381 | 20,286 | 2,449 | 14,694 |
| 10.9 | 22 kV Indoor cable termination kit, for XLPE power cable 500 sq.mm. Completed with accessories. | 6 | Set | 2,648 | 15,888 | 2,449 | 14,694 |
| 10.10 | 22 kV Outdoor cable termination kit, for XLPE power cable 400 sq.mm. Completed with accessories. | 30 | Set | 2,555 | 76,650 | 2,391 | 71,730 |
| 10.11 | 22 kV Indoor cable termination kit, for XLPE power cable 400 sq.mm. Completed with accessories. | 30 | Set | 2,841 | 85,230 | 2,391 | 71,730 |
| 10.12 | 22 kV Outdoor cable termination kit, for XLPE power cable 240 sq.mm. Completed with accessories. | | Set | | | | |
| 10.13 | 22 kV Indoor cable termination kit, for XLPE power cable 240 sq.mm. Completed with accessories. | 12 | Set | 1,034 | 12,408 | 2,120 | 25,440 |
| 10.14 | 22 kV Outdoor cable termination kit, for XLPE power cable 95 sq.mm. Completed with accessories. | 6 | Set | 3,900 | 23,400 | 2,113 | 12,678 |
| 10.15 | 22 kV Indoor cable termination kit, for XLPE power cable 95 sq.mm. Completed with accessories. | 6 | Set | 2,011 | 12,066 | 2,113 | 12,678 |
| 10.16 | 22 kV Cable Splicing kit, for XLPE power cable 500 sq.mm. | | Set | | | | |
| 10.17 | 22 kV Cable Splicing kit, for XLPE power cable 400 sq.mm. | | Set | | | | |
| 10.18 | 22 kV Cable Splicing kit, for XLPE power cable 240 sq.mm. | | Set | | | | |
| 10.19 | 33 kV XLPE power cable, 500 sq.mm. | | m | | | | |
| 10.20 | 33 kV XLPE power cable, 400 sq.mm. | | m | | | | |
| 10.21 | 33 kV XLPE power cable, 240 sq.mm. | | m | | | | |
| 10.22 | 33 kV XLPE power cable, 95 sq.mm. | | m | | | | |
| 10.23 | 33 kV Outdoor cable termination kit, for XLPE power cable 500 sq.mm. Completed with accessories. | | Set | | | | |
| 10.24 | 33 kV Indoor cable termination kit, for XLPE power cable 500 sq.mm. Completed with accessories. | | Set | | | | |
| 10.25 | 33 kV Outdoor cable termination kit, for XLPE power cable 400 sq.mm. Completed with accessories. | | Set | | | | |
| 10.26 | 33 kV Indoor cable termination kit, for XLPE power cable 400 sq.mm. Completed with accessories. | | Set | | | | |
| 10.27 | 33 kV Outdoor cable termination kit, for XLPE power cable 240 sq.mm. Completed with accessories. | | Set | | | | |
| 10.28 | 33 kV Indoor cable termination kit, for XLPE power cable 240 sq.mm. Completed with accessories. | | Set | | | | |
| 10.29 | 33 kV Outdoor cable termination kit, for XLPE power cable 95 sq.mm. Completed with accessories. | | Set | | | | |
| 10.30 | 33 kV Indoor cable termination kit, for XLPE power cable 95 sq.mm. Completed with accessories. | | Set | | | | |
| 10.31 | 33 kV Cable Splicing kit, for XLPE power cable 500 sq.mm. | | Set | | | | |
| 10.32 | 33 kV Cable Splicing kit, for XLPE power cable 400 sq.mm. | | Set | | | | |
| 10.33 | Fire barrier system | 1 | Lot | 143,005 | 143,005 | 20,247 | 20,247 |
| 10.34 | Fire barrier system for Additional Bay | | | | | | |
| | - Line bay | | Lot | | | | |
| | - Transformer bay and Power transformer | | Lot | | | | |
| 11 | LV POWER CABLE & CONTROL CABLE | | | | | | |
| | GIS Double Bus Single Breaker 115 kV | | | | | | |
| 11.1 | LV power cable, 750 V | 1 | Lot | 380,676 | 380,676 | 13,827 | 13,827 |
| 11.2 | Control cable, 600 V | 1 | Lot | 903,774 | 903,774 | 72,906 | 72,906 |
| 12 | SUPPORT STRUCTURE, CABLE SUPPORT, CONCRETE POLE, CONDUIT & PIPE | | | | | | |
| 12.1 | Take off structure, Beam | | Unit | | | | |
| 12.2 | Take off structure, Post | | Unit | | | | |
| 12.3 | Bus support structure for Main & Transfer | | Lot | | | | |
| 12.4 | Bus support structure for H | | Lot | | | | |
| 12.5 | Bus support structure for MTS-H Outdoor/Indoor | | Lot | | | | |
| 12.6 | Bus support structure for Breaker & A Half | | Lot | | | | |
| 12.7 | Supporting structure, for 115 kV MTS (Included in Item 3.3 or 3.4) | | Unit | Included item 3.3 or 3.4 | | | |
| 12.8 | Supporting structure, for 115 kV CB | | Unit | | | | |
| 12.9 | Supporting structure, for 115 kV DS with ground switch (Hanged On Wall) | | Unit | | | | |
| 12.10 | Supporting structure, for 115 kV DS with ground switch (Hanged On 115 kV. Take-off structure) | | Unit | | | | |
| 12.11 | Supporting structure, for 115 kV DS or DS with ground | | Unit | | | | |
| 12.12 | Supporting structure, for 115 kV ES | | Unit | | | | |
| 12.13 | Supporting structure, for 115 kV LA | | Unit | | | | |
| 12.14 | Supporting structure, for 115 kV CT and Junction Box | | Unit | | | | |
| 12.15 | Supporting structure, for 115 kV IVT and Junction Box | | Unit | | | | |
| 12.16 | Supporting structure for Bus differentail Junction box | | Unit | | | | |
| 12.17 | Supporting structure for Outdoor termination kit of Power transformer | 1 | Unit | 43,141 | 43,141 | 6,608 | 6,608 |
| 12.18 | Cable support structure for connecting Metering structure (MS1&MS2) complete with accessories | | Lot | | | | |
| 12.19 | Incoming riser pole Cable support structure complete with accessories (two Incoming) excluding DS, LA, termination kit and concrete pole. | | Set | | | | |

| Item | Description | Quantity | Unit | Part A | Part A | Part B | Part B |
|-------|---|----------|------|------------|-----------|--------------|--------------|
| | | | | Equipment | Equipment | Installation | Installation |
| | | | | (Baht) | (Baht) | (Baht) | (Baht) |
| | | | | Unit Price | Total | Unit Price | Total |
| 12.20 | Incoming riser pole Cable support structure complete with accessories (one Incoming) excluding DS, LA, termination kit and concrete pole | | Set | | | | |
| 12.21 | Sheath Voltage Limiter; SVL (according to Specification of SVL) | | Unit | | | | |
| 12.22 | Two Crossarm, Spun, Prestressed Concrete 100 x 100 x 2,500 mm for 22 kV DS Completed with accessories. | 10 | set | 4,916 | 49,160 | 633 | 6,330 |
| 12.23 | Two Crossarm, Spun, Prestressed Concrete 120 x 120 x 3,000 mm for 33 kV DS Completed with accessories. | | set | | | | |
| 12.24 | One Crossarm, Spun, Prestressed Concrete 100 x 100 x 2,500 mm for 22 kV LA Completed with accessories. | 10 | set | 3,437 | 34,370 | 580 | 5,800 |
| 12.25 | One Crossarm, Spun, Prestressed Concrete 120 x 120 x 3,000 mm for 33 kV LA Completed with accessories. | | set | | | | |
| 12.26 | One Crossarm, Spun, Prestressed Concrete 100 x 100 x 2,500 mm for 22 kV Cable riser Completed with accessories. | 10 | set | 3,437 | 34,370 | 580 | 5,800 |
| 12.27 | One Crossarm, Spun, Prestressed Concrete 120 x 120 x 3,000 mm for 33 kV Cable riser Completed with accessories. | | set | | | | |
| 12.28 | Concrete Pole, 12.20 m Long. ภาคเหนือ | | Unit | | | | |
| | Concrete Pole, 12.20 m Long. ภาคตะวันออกเฉียงเหนือ | | Unit | | | | |
| | Concrete Pole, 12.20 m Long. ภาคกลาง | | Unit | | | | |
| | Concrete Pole, 12.20 m Long. ภาคใต้ | | Unit | | | | |
| 12.29 | Concrete Pole, 14.30 m Long. ภาคเหนือ | | Unit | | | | |
| | Concrete Pole, 14.30 m Long. ภาคตะวันออกเฉียงเหนือ | | Unit | | | | |
| | Concrete Pole, 14.30 m Long. ภาคกลาง | | Unit | | | | |
| | Concrete Pole, 14.30 m Long. ภาคใต้ | | Unit | | | | |
| 12.30 | Concrete Pole, 22.00 m Long with ground plate 14 Point (ภาคเหนือ) | | Unit | | | | |
| | Concrete Pole, 22.00 m Long with ground plate 14 Point (ภาคตะวันออกเฉียงเหนือ) | | Unit | | | | |
| | Concrete Pole, 22.00 m Long with ground plate 14 Point (ภาคกลาง) | | Unit | | | | |
| | Concrete Pole, 22.00 m Long with ground plate 14 Point (ภาคใต้) | | Unit | | | | |
| 12.31 | F1/1 Single Pole Foundation (Ref. IB2-011/45004) | | Unit | | | | |
| | F3 Single Pole Foundation (Ref. IB2-011/44017) | | Unit | | | | |
| | F5 Single Pole Foundation (Ref. IB2-011/44014) | | Unit | | | | |
| | F6 Single Pole Foundation (Ref. IB2-011/44011) | | Unit | | | | |
| | F6/1 Single Pole Foundation (Ref. IB2-011/44011) | | Unit | | | | |
| 12.32 | 115kV Underground Cable Riser Pole Structure Type SD-UG-2 : Reference DWG No.SA1-015/57008 (Assembly No.7622). (Excluding Concrete pole (22 m. Long), 115 kV Underground Cable and Conduit Steel Guard Item 35 of DWG.) | | Set | | | | |
| 12.33 | 115kV Underground Cable Riser Pole Structure Type SD-UG-3 : Reference DWG No.SA1-015/57009 (Assembly No.7623). (Excluding Concrete pole (22 m. Long), 115 kV Underground Cable and Conduit Steel Guard Item 33 of DWG.) | | Set | | | | |
| 12.34 | 115 kV Operating platform and foundation | | | | | | |
| | - 115 kV Circuit breaker or MTS | | Set | | | | |
| | - 115 kV DS or ES | | Set | | | | |
| 12.35 | Cable tray, Cable ladder, Cable support and Wire way complete with accessories. | 1 | Lot | 226,330 | 226,330 | 17,235 | 17,235 |
| | GIS Double Bus Single Breaker 115 kV & (Outdoor to Indoor) Renovate | | | | | | |
| 12.36 | RSC, IMC, PVC pipe and HDPE pipe complete with accessories for all equipment. | 1 | Lot | 122,103 | 122,103 | 11,245 | 11,245 |
| | Conventional type | | | | | | |
| 12.37 | RSC, IMC, PVC pipe and HDPE pipe complete with accessories for all equipment. | | Lot | | | | |
| | Support structure, Cable support, Pipe for Additional bay | | | | | | |
| 12.38 | Bus support structure | | | | | | |
| | - Main and transfer | | Lot | | | | |
| | - AIS H-Config. | | Lot | | | | |
| | - MTS H-Config. (Outdoor/Indoor) | | Lot | | | | |
| | - Breaker and a half | | Lot | | | | |
| 12.39 | Cable tray, Cable ladder, Cable support and Wire way complete with accessories. | | Lot | | | | |
| 12.40 | RSC, IMC, PVC pipe and HDPE pipe complete with accessories for all equipment. | | Lot | | | | |
| 13 | CONDUCTOR, INSULATOR AND ACCESSORIES | | | | | | |
| | GIS Double Bus Single Breaker 115 kV | | | | | | |
| 13.1 | Stranded conductor, aluminium, 400 sq.mm. | 1 | Lot | 46,046 | 46,046 | 4,890 | 4,890 |
| 13.2 | Insulator Post Type, Horizontal mounting for 115 kV Riser (SD-UG) | | Unit | | | | |
| 13.3 | Insulator Post Type, Horizontal mounting for 115 kV Riser(SD-UG-2,Insulator Post Type 8 EA) | | Set | | | | |
| 13.4 | Insulator Post Type, Horizontal mounting for 115 kV Riser(SD-UG-3,Insulator Post Type 6 EA) | | Set | | | | |
| 13.5 | Substation connectors, Stranded conductor accessories | 1 | Lot | 67,399 | 67,399 | 6,645 | 6,645 |
| 14 | GROUNDING SYSTEM | | | | | | |
| 14.1 | Conductor, copper, Bare 95 sq.mm. for switchyard only. (Included cable trench) | 1800 | m | 403 | 725,400 | 56 | 100,800 |
| 14.2 | Conductor, copper, Bare 120 sq.mm. for switchyard only. | | m | | | | |
| 14.3 | Ground rod, Copper covered steel, diameter 5/8", 6 m Long | | pc | | | | |
| 14.4 | Ground rod, Copper covered steel, diameter 5/8", 3 m Long | 37 | pc | 716 | 26,492 | 285 | 10,545 |
| 14.5 | Earthing test pit | 2 | Unit | 2,660 | 5,320 | 735 | 1,470 |
| 14.6 | CU. conductor cable for Parallel Ground Continuity Conductor (PGCC), 185 sq.mm. XLPE, 1kV. | | m | | | | |
| 14.7 | Disconnecting Box for PGCC | | Unit | | | | |

| Item | Description | Quantity | Unit | Part A | Part A | Part B | Part B |
|------|--|----------|------|----------------|----------------|----------------|--------------|
| | | | | Equipment | Equipment | Installation | Installation |
| | | | | (Baht) | (Baht) | (Baht) | (Baht) |
| | | | | Unit Price | Total | Unit Price | Total |
| | GIS Double Bus Single Breaker 115 kV / MTS Indoor | | | | | | |
| 14.8 | Earthing system and lightning protection system -earthing system & lightning protection system in control building and for antenna tower (included potential ring, ground rod, conductor 50, 95 and 120 Sq.mm., complete with accessories.) -earthing system outside control building and Guard House (Excluding ground rod and conductor 95 and 120 sq.mm.) | 1 | Lot | 1,260,833 | 1,260,833 | 72,902 | 72,902 |
| 15 | LIGHTING SYSTEM | | | | | | |
| 15.1 | Area floodlight luminaires | | | | | | |
| | - Type L (LED, ≤ 215 W, ≥ 16,500 lm) | | Set | | | | |
| | - Type L1 (LED, ≤ 420 W, ≥ 38,000 lm) | | Set | | | | |
| 15.2 | Street and area lighting luminaires | | | | | | |
| | - Type M (LED, ≤ 70 W, ≥ 6,650 lm) long 6 m. | | Set | | | | |
| | - Type M1 (LED, ≤ 70 W, ≥ 6,650 lm) long 4 m. | 11 | Set | 16,886 | 185,746 | 2,095 | 23,045 |
| | - Type M2 (LED, ≤ 70 W, ≥ 6,650 lm) long 2.7 m. | | Set | | | | |
| | - Type M3 (LED, ≤ 70 W, ≥ 6,650 lm) long 4.7 m. | | Set | | | | |
| 15.3 | Termination box for floodlight | | | | | | |
| | - Type L (215 W) | | Set | | | | |
| | - Type L1 (420 W) | | Set | | | | |
| 16 | IDENTIFICATION PLATES | | | | | | |
| | GIS Double Bus Single Breaker 115 kV | | | | | | |
| 16.1 | Identification plates and danger notice complete with accessories. | 1 | Lot | 26,217 | 26,217 | 4,509 | 4,509 |
| 17 | COMPUTER-BASE SUBSTATION CONTROL SYSTEM (CSCS) & SUBSTATION CONTROL AND PROTECTION | | | | | | |
| | GIS Double Bus Single Breaker 115 kV | | | | | | |
| 17.1 | Computer-base Substation Control System (CSCS) for 10 outgoing | | Lot | | | | |
| 17.2 | Computer-base Substation Control System (CSCS) for 5 outgoing | | Lot | | | | |
| 17.3 | IEC 61850 BASED SUBSTATION CONTROL AND PROTECTION SYSTEM (SCPS) TOPOLOGY 1 (2 Line Bay , 2 TP. Bay, 1 Tie Bay) | 1 | Lot | 3,790,555 | 3,790,555 | 1,744,864 | 1,744,864 |
| 17.4 | IEC 61850 BASED SUBSTATION CONTROL AND PROTECTION SYSTEM (SCPS) TOPOLOGY 2 | | Lot | | | | |
| 18 | AUTOMATIC SWITCHING CAPACITOR BANK | | | | | | |
| 18.1 | 22 kV Automatic switching capacitor bank | 2 | Unit | 2,712,247 | 5,424,494 | 28,079 | 56,158 |
| 18.2 | 33 kV Automatic switching capacitor bank | | Unit | | | | |
| 19 | ANTENNA TOWERS AND ACCESSORIES | | | | | | |
| 19.1 | Antenna tower, grid structure, corner-legs made of round steel bars, triangle type, with : | 1 | Set | 119,332 | 119,332 | 13,253 | 13,253 |
| | Free length over-floor : 32 m | | | | | | |
| | Base width : 0.75 m | | | | | | |
| | End width : 0.35 m | | | | | | |
| | The round steel bars shall have characteristics as follow : | | | | | | |
| | Tensile stress : not less than 39 kg/sq.mm. | | | | | | |
| | Yield stress : not less than 24 kg/sq.mm. | | | | | | |
| | Zinc coating thickness : not less than 50 micro meter | | | | | | |
| | Complete with installation material and part list | | | | | | |
| 19.2 | Accessories for the antenna tower in 19.1 each set consists of : | 1 | Lot | 49,579 | 49,579 | 9,268 | 9,268 |
| | (1) Obstruction light, long life heavy duty, double-luminaries, | | | | | | |
| | double-circuit, manual on-off switch, with : | | | | | | |
| | Lamp life : not less than 8,000 h | | | | | | |
| | Lamp rating : not less than 100 w | | | | | | |
| | AC circuit breaker : not less than 10 A | | | | | | |
| | Power supply : single-phase, 220 VAC, 50 Hz | | | | | | |
| | Complete with circuit breaker box and accessories | | | | | | |
| | (2) Copper cable, Table.....of TIS 11, 750 V, PVC insulation and PVC sheath. | | | | | | |
| | (3) Paints (Rust Oleum water reducible coatings 5258 orange/one gallon and 5291 white/one gallon) | | | | | | |
| 20 | SOLAR ROOFTOP SYSTEM | | | | | | |
| 20.1 | Solar Rooftop 20 kW | 1 | Lot | 1,047,155 | 1,047,155 | 155,080 | 155,080 |
| | TOTAL (Equipment & Installation) | | | | 137,291,139 | | 4,875,132 |
| | TRANSPORTATION COST (PART B) 1.5% OF EQUIPMENT | | | | 2,059,367.09 | | |
| | | | | PART A | | PART B | |
| | | | | Equipment | | Transportation | Installation |
| | INFLATION RATE 1.7% OF EQUIPMENT, INSTALLATION, AND TRANSPORTATION COST | | | 139,625,088.36 | | 2,094,376.33 | 4,958,009.24 |
| | TOTAL COST | | | | 146,677,473.93 | | |
| | SAY (ELECTRICAL WORK) | | | | 146,677,473 | | |

หมายเหตุ

- ☐ ใช้ราคาค่าอุปกรณ์จากราคากลางพัสดุ ประจำปี 2565 ครั้งที่ 1 ลว. 21 ม.ค. 2565 และราคามาตรฐานพัสดุ กฟผ. ปี 2565 ครั้งที่ 1 ลว. 25 ก.พ. 2565 (ตามลำดับ)
- ราคานี้ใช้สำหรับประกวดราคาจ้างก่อสร้างสถานีไฟฟ้า
- ราคาค่าอุปกรณ์และค่าแรงไม่รวมภาษีมูลค่าเพิ่ม
- อัตราเงินเฟ้อทั่วไปปี 2565 = 1.7 %