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6.0 SCOPE OF SUPPLY & WORK

The scope of plant and services include design, manufacture, quality assurance, inspection & testing, packing for export, insurance & shipment to site, complete construction & installation, jointing, terminating, bonding, earthing, painting, transportation, setting to work, site testing & commissioning of all the equipment necessary for operation of the sub-stations. Moreover, the existing equipment dismantled from the existing substation shall be handed over and deposited to Project Store, Rajshahi without any damage as per director of Project Director or Engineer of this project.

Shifting/ Modification of any existing scheme of equipment to new equipment in upgradation/ Renovation work scope shall be deemed included in the scope.

The detail requirement is listed in the technical specification and Guaranteed Technical particulars (GTP) in the tender document.

The contractor is responsible for ensuring that all and any items of work required for the safe efficient and satisfactory completion and functioning of the works.
6.1.1 Construction of 33/11 KV, 1X10/13.33 MVA, AIS Type Substation at Babupara, Ishwardi
(Not limited but at least the following works to be done by the turnkey contractor)

A. CIVIL & BUILDING WORKS:

Design, Manufacture, Supply, Installation/ Erection, Construction, Testing and commissioning and so on of the following works are the scope of works:

1) Land development work with height of 1(ONE) Meter above the highest flood level or 1(ONE) Meter above the nearest high way / road level which is higher. Employer will provide all lands. Soil testing for soil resistivity and soil bearing capacity before designing, final leveling, consolidation, surfacing and compaction of entire switchyard area with crushed rock (where required) to cater for the ultimate development of the substation.

2) Landscaping work and gardening of the whole sub-station area. Bidder shall submit the layout of the whole substation area of landscaping work for approval.

3) Construction of cable trenches for power cable and control cable:
   (a) Within the switch yard area
   (b) Switch yard area to control room building
   (c) Control room building to 11kV feeder poles [Location of 11kV terminal pole will be within 100meter from the control room building].

4) Construction of Boundary wall required for whole Sub-Station. Retaining wall shall be constructed if necessary.

5) Construction of main entrance gate and side gate.

6) Construction of R.C.C foundations for power transformers, switch yard tower, circuit breaker and all others equipment & Structure as required

7) Construction of guard post building (10 Sq-m).

8) Construction of 390 square meter complete Control room building (195 Sq-m each Floor). For Control room building - the Cable Trench space, Store Room, Security Space, Toilet, Employee’s office room shall be installed in the Ground floor level (Clear Height 9’-6”); Control room, Battery Room shall be installed in the 1st floor level (Clear Height 13’-6”).

9) Properly insulated False Ceiling of Control room, office, conference room suitable for Air conditioning system.

10) Construction of drainage and sanitary system for control room and whole sub-station area.

11) Supply and installation of Operation Key Board, A1/ Steel frame front cover glass with locking device, dust proof.
12) Construction a connecting road between nearest highway/road and Sub-Station main gate.

13) Construction of approach road from the main gate to the switchyard & Control Room entrance and internal road for whole sub-station area and parking area as required.

14) Supply of gravel and finishing the Switchyard surface by the gravel.

15) Supply and installation of Switchyard Chain link fencing with gate.

16) Construction of septic tank, soak well, inspections pits, sewerage piping by PVC 6 inches dia. Pipe, toilet/ bathroom / lavatory located in the control room building having facilities of wash basin, bath shower towel rod, soap case, auzo wash, glass rack, looking mirror, pan fitting with low-down, swan neck pillar cock, extra long bib cock, interior walls and floor finished by tiles etc. complete in all respect.

17) Supply and installation of the following:

   Overhead water tank on the top of the control room building, underground water reservoir (tank), water lifting pump, suction pump and portable water supply system complete in all respect [Design shall be based on use of 10 persons per day for overhead water tank].

18) Supply and installation of Wall clock for Operator use, about 12 - 16 inches Dia Dial plate, pointer type, English numerical type but not LCD display Digital type, Quartz.

19) Supply of Operator working table, Steel made, with extra glass on the top, and two nos. of wheel based revolving chair, curtain (vanicial blind) of window in the control room.

20) Supply of Steel File Cabinet (four drawers), Steel Almirah for record keeping in the control room.

21) Construction/ installation of Substation NAME PLATE/ SIGN BOARD - one no.,

22) Supply and construction of Power cable trench and control cable rack inside the ground floor of the control room building. Proper sealing of the cable entry (control & Power) at Control Room building, to prevent water entering from switch yard/outside to CR Building, preventing entry of rats and reptiles, Fire proof etc.

23) Supply and Installation of Yard Lighting (LED) & Emergency Lighting (LED). All the light fittings shall be LED type & these fittings shall be mounted on switch yard portal structures such as columns & beams. No separate lighting mast is required. Entire substation lighting system in the switch yard shall be designed using underground cables only. No over head conductors are permitted for this purpose. For street lighting one outdoor lighting kiosk with two incomers of 200A rating switch fuse units (SFU) & with six feeders of 32A rating fitted with MCB shall be considered. Lighting within the switchyard must be designed as per relevant IEC standard to achieve the following minimum lighting levels:

   - minimum 20 lux within the main working areas;
   - minimum 60 lux at major plant items including marshalling boxes and control cubicles.
24) Switchyard lighting must consist of weather proof LED floodlights, located on dedicated lighting poles and switched from inside the building. Floodlights should be a suitable high quality, energy efficient light installed at 45-60 degrees or an angle suitable to maximize the effectiveness of the light. Lighting poles must be Hot Dipped Galvanized and hinged at the base or mid-way up the pole to ensure maintenance is capable of being performed at ground level without the use of ladders or elevated work platforms. The design must check swing down or hinged poles with the proximity to HV equipment to ensure exclusion zones are not encroached when performing floodlight maintenance.

25) Supply and installation of decorative LED street lighting after every 15 meter interval (distance). LED Street lighting have the feature of Multiple Mounting Options Available, Rugged Precision Cast Aluminum Housing, Perforated Air Flow Venting, High Surface Area Extruded Aluminum Heat Sinks, High Output White LED Diode, Decorative Lens Cover Seals the Electrical/Optical Chamber to IP66, Electronic Driver. The pole shall be stylish, non-corrosive, easy to install and have longer service life.

**NOTE:** All doors & windows work to be finished by aluminum frame and high quality transparent 6 mm thick glasses. Both indoor & outdoor surface finishing works of walls, roof etc, to be synthetic high quality plastic paint and moisture proof snowcem respectively and treatment to be made by lime terracing for rain water leakage proof of the roof.

**B. SUB-STATION / ELECTRICAL WORKS :**

Design, Manufacture, Supply, Installation/ Erection, Construction, Testing and Commissioning etc. of the following works are the scope of works:

1) Supply and installation of one no 33kV Incoming Feeder at New S/S comprising: 33kV Circuit Breaker, CT, DS, LA, Control cable, Relay, Signaling, Metering Panels etc. complete in all respect.

2) Supply and installation of one no 33kV Outgoing Feeder comprising: 33kV Circuit Breaker, CT, DS, LA, Control cable, cable terminating kits and supporting structures etc. complete in all respect.

3) Supply and installation of 33kV incoming feeder for Power Transformer comprising: 33kV Circuit Breaker, CT, DS, LA, Control cable etc. complete in all respect.

4) Supply and installation of Station use Auxiliary transformer 200 KVA, 33/0.415 KV, ONAN, Dyn-11 including 33kV gang operated fuse isolator with fuse, 0.415 kV MCCB, power cable, cable terminating kits with structures, etc complete in all respect.

5) Supply and installation of Power transformer 33/11 kV, 1x10/13 MVA, Dyn11, with. 33 kV Feeder comprising : Circuit Breaker, CT, LA, DS, 11kV Power cable, Control cable, cable terminating kits and supporting structures etc complete in all respect.

6) Supply and installation of 33kV Bus Potential Transformer of ratio $\frac{33kV}{\sqrt{3}}$ $\frac{110V}{\sqrt{3}}$ $\frac{110 V}{\sqrt{3}}$ one set (three nos. in one set), to be installed on the top of the switch yard gantry structure.
7) Supply and installation of Switch yard shielding materials.

8) Supply and installation of Switch yard grounding materials for whole sub-station area and equipment to be installed. Earth resistance of the substation shall be less than 0.5ohm.

9) Supply and installation of Switchyard outdoor illumination system.

10) Supply and installation of 33kV Sectionalizing Bus Isolator, gang operated, horizontal mounting, vertical break, without earthing blade to be installed on the top of the middle portion of the switchyard gantry structure.

11) Supporting steel column structure for connecting the 11kV Power Cable with accessories as required.

12) Supply and installation of 33kV switchyard gantry structure two diameters (Each 5M×5M) with bus bar, bus support insulator & hardware, jumper, shielding materials and grounding materials etc. complete in all respect.

13) Supply and installation of Control room indoor illumination.

14) Supply and installation of Emergency lighting

15) Supply and installation of Fire Fighting equipment / system.

16) Supply and installation of Exhaust Fan (One no. in battery room).

17) Supply and installation of Split type Air Conditioner (At least Forty Eight thousand BTU per hr. capacity including MCB, switch, male female plug socket complete) - 4 nos. in 11kV switchgear panel room and 33kV protection, control & metering panel room.

18) Supply and installation of Control-Relay Panels for 33kV power transformer & line feeders of the proposed 33kV & 11KV Circuits to be installed in the control room building.

19) Supply and installation of AC Distribution Panel, DC Distribution Panel.

20) Supply and installation of Separate AC distribution Box, wall mounting for control room internal & external illumination switching, extra power supply arrangement for testing purpose, different operation and maintenance use.

21) Supply and installation of switching boards to be installed in each room for functioning of fans, lights, Air Conditioner etc.

22) Supply and installation of 11KV SWITCHGEAR having 1600A Bus comprising:

- Incoming from 33/11kV Power transformer (1250A) : 01 (one) nos.
- Out-going feeder Breaker (630A) : 04 (five) nos.
- 11kV Potential transformer panel having ratio of $\frac{11kV}{\sqrt{3}}, \frac{110V}{\sqrt{3}}, \frac{110V}{\sqrt{3}}$ etc in
top mounted on the incoming breaker panel - 1 (one) panel complete in all respect.

23) Supply and installation/ connection of 11kV Power Cable, XLPE, but not PVC/ PILC for all 11kV line feeders and transformers feeder including cable termination (Outdoor & Indoor) as required.

24) Supply and installation/ connection of Control Cables

25) Supply and installation of Battery, Ni-Cd

26) Supply and installation of Battery Charger

27) Supply and laying of Rubber pad to be laid in front of the 11kV SWITCHGEAR Panels.

28) 3 (Three) sets of As-built drawings together with operation and maintenance manual, relevant IEC standards of the installed equipment shall be submitted for the Directorate of Design & Inspection -2, BPDB, Dhaka.

29) The Bidder must visit the site and assess the works before tender submission.
6.1.2 Renovation of 33/11 KV 2X10/13.33 MVA, AIS Type Substation at Bahirgola, Sirajgonj

(Not limited but at least the following works to be done by the turnkey contractor)

A. CIVIL & BUILDING WORKS:

1) Renovation of control room Building (Wall painting, false ceiling repair works etc.) - as per requirements of Project Director.

2) Renovation of boundary wall/ fencing/gravelling / internal road/ drainage system and cable trenches - as per requirements of Project Director.

B. SUB-STATION / ELECTRICAL WORKS:

Design, Manufacture, Supply, Installation/ Erection, Construction, Testing and Commissioning etc. of the following works are the scope of works:

1) Supply, Replacement, Installation, Testing and Commissioning of 33kV Circuit Breaker(1250A) , Isolator , LA, Control cable, 33 KV PCM Panel for incoming line feeder.

2) Supply, Replacement, Installation, Testing and Commissioning of 33kV Circuit Breaker(1250A) , 33 KV PCM Panel, 33 KV Isolator , Control cable for 33kV incoming feeder for Power Transformer comprising .

3) Supply, Replacement, Installation, Testing and Commissioning of Station use Auxiliary transformer 200 KVA, 33/0.415 KV, ONAN, Dyn-11 including 33kV gang operated fuse isolator with fuse, 0.415 kV MCCB, power cable, cable terminating kits with structures, etc complete in all respect.

5) Supply, Replacement, Installation, Testing and Commissioning of 33kV Bus Potential Transformer of ratio $\frac{33kV}{\sqrt{3}}, \frac{110V}{\sqrt{3}}, \frac{110 V}{\sqrt{3}}$ 

one set (three nos. in one set), to be installed on the top of the switch yard gantry structure. Supply, Replacement and Installation of 33 KV Bus Section Isolator.

6) Supply and installation of Switch yard shielding materials.

7) Supply and installation of Fire Fighting equipment / system.

8) Supply and installation of Split type Air Conditioner (At least 48,000(forty eight thousand) BTU per hr. capacity (4nos. Air Conditioner) including MCB, switch, male female plug socket complete) in 11kV SWITCHGEAR panel room and 33kV protection, control & metering panel room.
9) Supply and installation of Signaling and Auxiliary Panel, AC Distribution Panel, DC Distribution Panel.

10) Supply and installation of 11kV SWITCHGEAR comprising:

- Incoming from 33/11kV Power transformer (1250A, 25KA) : 02 (two) nos.
- Out-going feeder Breaker (630A, 25KA) : 8 (ten) nos.
- Bus coupler (1600A, 25KA) : 01 (one) nos.

11kV Potential transformer panel having ratio of $\frac{11kV}{\sqrt{3}}$, $\frac{110V}{\sqrt{3}}$, $\frac{110V}{\sqrt{3}}$ etc in top mounted on the incoming breaker panel - 2 (two) panel complete in all respect.

11) Connection of 11kV Power Cable, XLPE, for all 11kV line feeders and transformers feeder including cable termination (Outdoor & Indoor) as required.

12) Supply and installation/ connection of Control Cables

13) Supply and installation of Battery, Ni-Cd and Battery Charger

14) Supply and installation of LED light 250watts 220volts single phase with shade & fittings.

15) 3 (Three) sets of As-built drawings together with operation and maintenance manual, relevant IEC standards of the installed equipment shall be submitted for the Directorate of Design & Inspection -2, BPDB, Dhaka.

16) The Bidder must visit the site and assess the works before tender submission.
6.1.3 Renovation of 33/11 KV 2X10/13.33 MVA, AIS Type Substation at Raipur, Sirajgonj

(Not limited but at least the following works to be done by the turnkey contractor)

A. CIVIL & BUILDING WORKS:

1) Renovation of control room Building (Wall painting, false ceiling repair works etc.) - as per requirements of Project Director.

2) Renovation of boundary wall/ fencing/gravelling / internal road/ drainage system and cable trenches - as per requirements of Project Director.

B. SUB-STATION / ELECTRICAL WORKS:

Design, Manufacture, Supply, Installation/ Erection, Construction, Testing and Commissioning etc. of the following works are the scope of works:

1) Supply, Replacement, Installation, Testing and Commissioning of 33kV Circuit Breaker(1250A), Isolator, LA, Control cable, 33 KV PCM Panel for incoming line feeder.

2) Supply, Replacement, Installation, Testing and Commissioning of 33kV Circuit Breaker(1250A), 33 KV PCM Panel, 33 KV Isolator, Control cable for 33kV incoming feeder for Power Transformer comprising .

3) Supply, Replacement, Installation, Testing and Commissioning of Station use Auxiliary transformer 200 KVA, 33/0.415 KV, ONAN, Dyn-11 including 33kV gang operated fuse isolator with fuse, 0.415 kV MCCB, power cable, cable terminating kits with structures, etc complete in all respect.

5) Supply, Replacement, Installation, Testing and Commissioning of 33kV Bus Potential Transformer of ratio \[
\frac{33kV}{\sqrt{3}} \quad \frac{110V}{\sqrt{3}} \quad \frac{110V}{\sqrt{3}}
\]

one set (three nos. in one set), to be installed on the top of the switch yard gantry structure. Supply, Replacement and Installation of 33 KV Bus Section Isolator.

6) Supply and installation of Switch yard shielding materials.

7) Supply and installation of Fire Fighting equipment / system.

8) Supply and installation of Split type Air Conditioner (At least 48,000(forty eight thousand) BTU per hr. capacity (4nos. Air Conditioner, each with capacity 12000BTU) including MCB, switch, male female plug socket complete) in 11kV SWITCHGEAR panel room and 33kV protection, control & metering panel room.
9) Supply and installation of Signaling and Auxiliary Panel, DC Distribution Panel.

10) Supply and installation of 11kV SWITCHGEAR comprising:

- Incoming from 33/11kV Power transformer (1250A, 25KA) : 02 (two) nos.
- Out-going feeder Breaker (630A, 25KA) : 8 (ten) nos.
- Bus coupler (1600A, 25KA) : 01 (one) nos.

11kV Potential transformer panel having ratio of \(\frac{11kV}{\sqrt{3}}, \frac{110V}{\sqrt{3}}, \frac{110V}{\sqrt{3}}\) ete in top mounted on the incoming breaker panel - 2 (two) panel complete in all respect.

11) Connection of 11kV Power Cable, XLPE, for all 11kV line feeders and transformers feeder including cable termination (Outdoor & Indoor) as required.

12) Supply and installation/ connection of Control Cables

13) Supply and installation of Battery, Ni-Cd and Battery Charger

14) Supply and installation of High pressure sodium lamp 250watts 220volts single phase with shade & fittings.

15) Supply and installation of Switch yard grounding materials for whole sub-station area and equipment to be installed. Earth resistance of the substations shall be less than 0.5ohm.

16) 3 (Three) sets of As-built drawings together with operation and maintenance manual, relevant IEC standards of the installed equipment shall be submitted for the Directorate of Design & Inspection -2, BPDB, Dhaka.

17) The Bidder must visit the site and assess the works before tender submission.
6.1.4 Renovation of 33/11 KV 2X10/13.33 MVA, AIS Type Substation at Joypurhat

(Not limited but at least the following works to be done by the turnkey contractor)

A. CIVIL & BUILDING WORKS:

1) Renovation of control room Building (Wall painting, false ceiling repair works etc.) - as per requirements of Project Director.

2) Renovation of boundary wall/ fencing/gravelling / internal road/ drainage system and cable trenches - as per requirements of Project Director.

B. SUB-STATION / ELECTRICAL WORKS:

Design, Manufacture, Supply, Installation/ Erection, Construction, Testing and Commissioning etc. of the following works are the scope of works:

1) Supply, Replacement, Installation, Testing and Commissioning of 33kV Circuit Breaker(1250A), Isolator, LA, Control cable, 33 KV PCM Panel for incoming line feeder.

2) Supply, Replacement, Installation, Testing and Commissioning of 33kV Circuit Breaker(1250A), Isolator, LA, Control cable, 33 KV PCM Panel for outgoing line feeder.

3) Supply, Replacement, Installation, Testing and Commissioning of 33kV Circuit Breaker(1250A), 33 KV PCM Panel, 33 KV Isolator, Control cable for 33kV incoming feeder for Power Transformer comprising:

4) Supply, Replacement, Installation, Testing and Commissioning of 33kV Bus Potential Transformer of ratio $\frac{33kV}{\sqrt{3}}$ $\frac{110V}{\sqrt{3}}$ $\frac{110 V}{\sqrt{3}}$

one set (three nos. in one set), to be installed on the top of the switch yard gantry structure. Supply,

5) Supply and installation of Switch yard shielding materials.

6) Supply and installation of Fire Fighting equipment / system.

7) Supply and installation of Split type Air Conditioner (At least 48,000(forty eight thousand) BTU per hr. capacity (4nos. Air Conditioner) including MCB, switch, male female plug socket complete) in 11kV SWITCHGEAR panel room and 33kV protection, control & metering panel room.

8) Supply and installation of DC Distribution Panel.

9) Supply and installation of 11kV SWITCHGEAR comprising:
Incoming from 33/11kV Power transformer (1250A, 25KA) : 02 (two) nos.
Out-going feeder Breaker (630A, 25KA) : 8 (ten) nos.
Bus coupler (1600A, 25KA) : 01 (one) nos

11kV Potential transformer panel having ratio of $\frac{11kV}{\sqrt{3}}, \frac{110V}{\sqrt{3}}, \frac{110V}{\sqrt{3}}$ ete in top mounted on the incoming breaker panel - 2 (two) panel complete in all respect.

10) Connection of 11kV Power Cable, XLPE, for all 11kV line feeders and transformers feeder including cable termination (Outdoor & Indoor) as required.

11) Supply and installation/ connection of Control Cables

12) Supply and installation of Battery, Ni-Cd and Battery Charger

13) Supply and installation of High pressure sodium lamp 250watts 220volts single phase with shade & fittings.

14) 3 (Three) sets of As-built drawings together with operation and maintenance manual, relevant IEC standards of the installed equipment shall be submitted for the Directorate of Design & Inspection -2, BPDB, Dhaka.

15) The Bidder must visit the site and assess the works before tender submission.
6.1.5 Renovation of 33/11 KV 2X10/13.33 MVA, AIS Type Substation at Laskarpur, Pabna.

(Not limited but at least the following works to be done by the turnkey contractor)

A. CIVIL & BUILDING WORKS:

1) Renovation of control room Building (Wall painting, false ceiling repair works etc.) - as per requirements of Project Director.

2) Renovation of boundary wall/fencing/gravelling/internal road/drainage system and cable trenches - as per requirements of Project Director.

B. SUB-STATION / ELECTRICAL WORKS:

Design, Manufacture, Supply, Installation/Erection, Construction, Testing and Commissioning etc. of the following works are the scope of works:

1) Supply, Replacement, Installation, Testing and Commissioning of 33kV Circuit Breaker(1250A), Isolator, LA, Control cable, 33 KV PCM Panel for incoming line feeder.

2) Supply, Replacement, Installation, Testing and Commissioning of 33kV Circuit Breaker(1250A), Isolator, LA, Control cable, 33 KV PCM Panel for outgoing line feeder.

3) Supply, Replacement, Installation, Testing and Commissioning of 33kV Circuit Breaker(1250A), 33 KV PCM Panel, 33 KV Isolator, Control cable for 33kV incoming feeder for Power Transformer comprising.

5) Supply, Replacement, Installation, Testing and Commissioning of 33kV Bus Potential Transformer of ratio $\frac{33kV}{\sqrt{3}}$ $\frac{110V}{\sqrt{3}}$ $\frac{110V}{\sqrt{3}}$

one set (three nos. in one set), to be installed on the top of the switch yard gantry structure. Supply, Replacement and Installation of 33 KV Bus Section Isolator.

6) Supply and installation of Switch yard shielding materials.

7) Supply and installation of Fire Fighting equipment/system.

8) Supply and installation of Split type Air (At least 48,000(forty eight thousand) BTU per hr. capacity 4nos. Air Conditioner) including MCB, switch, male female plug socket complete) in 11kV SWITCHGEAR panel room and 33kV protection, control & metering panel room.

9) Supply and installation of Signaling and Auxiliary Panel, DC Distribution Panel.
10) Supply and installation of 11kV SWITCHGEAR comprising:

- Incoming from 33/11kV Power transformer (1250A, 25KA): 02 (two) nos.
- Out-going feeder Breaker (630A, 25KA): 8 (ten) nos.
- Bus coupler (1600A, 25KA): 01 (one) nos.

11kV Potential transformer panel having ratio of \( \frac{11kV}{\sqrt{3}} \) - 2 (two) panel complete in all respect. Supply & Installation of Bus Section Isolator.

11) Connection of 11kV Power Cable, XLPE, for all 11kV line feeders and transformers feeder including cable termination (Outdoor & Indoor) as required.

12) Supply and installation / connection of Control Cables

13) Supply and installation of Battery, Ni-Cd and Battery Charger

14) Supply and installation of LED lamp 250watts 240volts single phase with shade & fittings.

15) Supply and installation of Switch yard grounding materials for whole sub-station area and equipment to be installed. Earth resistance of the substation shall be less than 0.5ohm.

16) 3 (Three) sets of As-built drawings together with operation and maintenance manual, relevant IEC standards of the installed equipment shall be submitted for the Directorate of Design & Inspection -2, BPDB, Dhaka.

17) The Bidder must visit the site and assess the works before tender submission.