

# NEPAL ELECTRICITY AUTHORITY

(An Undertaking of Government of Nepal)  
Project Management Directorate



TRANSMISSION LINE UPGRADING PROJECT

*A component of  
Electricity Grid Modernization Project*

## **BIDDING DOCUMENT FOR**

**Procurement of Plant for  
Design, Supply, Installation and Commissioning of 132kV Transmission Line Conductor  
Upgrading**

**Single-Stage, Two-Envelope  
Bidding Procedure**

|                                 |                                    |
|---------------------------------|------------------------------------|
| <b>Issued on:</b>               | <b>July 12, 2021</b>               |
| <b>Invitation for Bids No.:</b> | <b>PMD/EGMP/TLUP-77/78-01 (RE)</b> |
| <b>OCB No.:</b>                 | <b>PMD/EGMP/TLUP-77/78-01 (RE)</b> |
| <b>Employer:</b>                | <b>Nepal Electricity Authority</b> |
| <b>Country:</b>                 | <b>Nepal</b>                       |

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**Transmission Line upgrading Project  
Project Management Directorate  
NEA Training Centre Complex, Kharipati  
Bhaktapur, Nepal**

Telephone: 01-6615457

## SECTION IV PRICE SCHEDULE

**Note:**

- 1) Bidder is required to quote prices in this Schedule for all the individual items/sub-items.
- 2) The Prices of equipment's are inclusive of type test charges.
- 3) BOQ given is indicative only, the quantities mentioned above may undergo changes during detailed engineering to meet the functional requirement and scope of work defined in Employer's Requirements. Based on the detail engineering and design, the Contractor shall prepare and submit the final BOQ within 90 days of signing of Contract.
- 4) The bidders are require to quote their price including all taxes and duties applicable in their county / Country of origin, & all business taxes, income taxes (TDS etc) applicable in Nepal. The quoted price shall be exclusive of taxes and duties applicable in Nepal like Custom, VAT etc.

For Tender Purpose-Reference Only

**NEPAL ELECTRICITY AUTHORITY**  
 PROJECT MANAGEMENT DIRECTORATE  
**Transmission Line Upgrading Project**

**Electricity Grid Modernization Project (EGMP)**

PMD/EGMP/TLUP-077/78-01 (RE), Transmission Line Upgrading Project



**FC: Foreign Currency**

**Schedule No.1: Plant and Equipment including Mandatory Spares to be supplied from abroad**

**LC: Local Currency**

| Item No.      | Item description   | Country of origin | Estimated |          | CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal) |           |               | Custom, VAT and other taxes |
|---------------|--|-------------------|-----------|----------|--|-----------|---------------|-----------------------------|
|               |  |                   | Unit      | Quantity | FC   |           |               | LC                          |
|               |  |                   |           |          | Currency#  | Unit Rate | Amount        |                             |
| 1             | 2  | 3                 | 4         | 5        | 6  | 7         | 8 = (7) x (5) | 9                           |
|               | <b>TRANSMISSION LINE CONDUCTOR UPGRADE</b>   |                   |           |          |  |           |               |                             |
|               | <b>Part-A : EMPLOYER ASSESSED QUANTITIES</b>   |                   |           |          |  |           |               |                             |
| <b>PART I</b> | <b>TRANSMISSION UPGRADE</b>  |                   |           |          |  |           |               |                             |
| A             | Design, Manufacture, Testing and Supply of HTLS Conductor with all necessary accessories to complete the specified scope of works as per technical specification excluding the accessories mentioned elsewhere |                   |           |          |  |           |               |                             |
| A.1           | High Tension Low Sag (HTLS) Conductor equivalent ACSR Bear   |                   | Km        | 885.0    |  |           |               |                             |
| A.2           | High Tension Low Sag (HTLS) Conductor equivalent ACSR Duck   |                   | Km        | 15.0     |  |           |               |                             |
|               | <b>SUB TOTAL 'A'</b>   |                   |           |          |  |           |               |                             |
|               | <b>B Insulators with hardware fitting and accessories</b>  |                   |           |          |  |           |               |                             |
| B.1           | Design, manufacture, testing and Supply of Disc Insulators 70 KN with fittings   |                   | Nos.      | 500      |  |           |               |                             |
| B.2           | Design, manufacture, testing and Supply of Disc Insulators 120 KN with fittings  |                   | Nos.      | 500      |  |           |               |                             |
|               | Accessories  |                   |           |          |  |           |               |                             |
| B.3           | Vibration Damper for HTLS Conductor as per A.1   |                   | Nos       | 2680     |  |           |               |                             |
| B.4           | Vibration Damper for HTLS Conductor as per A.2   |                   | Nos       | 40       |  |           |               |                             |
| B.5           | Mid span compression joint for HTLS conductor (A.1)  |                   | Nos       | 80       |  |           |               |                             |
| B.6           | Mid span compression joint for HTLS conductor (A.2)  |                   | Nos       | 10       |  |           |               |                             |
| B.7           | Repair Sleeve for HTLS conductor (A.1)   |                   | Nos       | 80       |  |           |               |                             |
| B.8           | Repair Sleeve for HTLS conductor (A.2)   |                   | Nos       | 10       |  |           |               |                             |
|               | <b>SUB TOTAL 'B'</b>   |                   |           |          |  |           |               |                             |

Name of Bidder:

Signature of Bidder:

**NEPAL ELECTRICITY AUTHORITY**  
 PROJECT MANAGEMENT DIRECTORATE  
**Transmission Line Upgrading Project**

**Electricity Grid Modernization Project (EGMP)**

PMD/EGMP/TLUP-077/78-01 (RE), Transmission Line Upgrading Project



**FC: Foreign Currency**

**Schedule No.1: Plant and Equipment including Mandatory Spares to be supplied from abroad**

**LC: Local Currency**

| Item No.                | Item description  | Country of origin | Estimated |          | CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal) |           |               | Custom, VAT and other taxes |
|-------------------------|---|-------------------|-----------|----------|--|-----------|---------------|-----------------------------|
|                         |   |                   | Unit      | Quantity | FC   |           |               | LC                          |
|                         |   |                   |           |          | Currency#  | Unit Rate | Amount        |                             |
| 1                       | 2   | 3                 | 4         | 5        | 6  | 7         | 8 = (7) x (5) | 9                           |
| C.1                     | Design, fabrication & supply of towers & tower parts complete with stubs, step bolts, hangers, D-shackles, bolts & nuts etc as required but excluding tower accessories such as danger plates, number plates, phase plates, anti-climbing devices |                   |           |          |  |           |               |                             |
| 1                       | Tower as per Existing Design to replace existing tower  |                   | Nos       | 0        |  |           |               |                             |
| 2                       | Tower parts & members to replace existing missing members   |                   | MT        | 10       |  |           |               |                             |
| <b>TOTAL OF PART I</b>  |   |                   |           |          |  |           |               |                             |
| <b>PART II</b>          | <b>SUBSTATION WORKS</b>   |                   |           |          |  |           |               |                             |
| <b>D</b>                | <b>Design, Manufacture, Testing and Supply of</b>   |                   |           |          |  |           |               |                             |
| 1                       | 132 kV, 3 Phase, 5 Core Current Transformer with all accessories as per Technical Specification.  |                   | Nos       | 75       |  |           |               |                             |
| 2                       | 133 kV, 3 Phase, GIS Current Transformer with all accessories to replace in existing GIS as per Technical Specification. (For Balaju)   |                   | Nos       | 3        |  |           |               |                             |
| <b>TOTAL OF PART I</b>  |   |                   |           |          |  |           |               |                             |
| <b>Sub-Total Part-A</b> |   |                   |           |          |  |           |               |                             |

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FC: Foreign Currency

LC: Local Currency

**Schedule No.1: Plant and Equipment including Mandatory Spares to be supplied from abroad**

| Item No.                                      | Item description   | Country of origin | Estimated |          | CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal) |           |               | Custom, VAT and other taxes |
|---|--|-------------------|-----------|----------|--|-----------|---------------|-----------------------------|
|   |  |                   | Unit      | Quantity | FC   |           | LC            |                             |
|   |  |                   |           |          | Currency#  | Unit Rate | Amount        |                             |
| 1   | 2  | 3                 | 4         | 5        | 6  | 7         | 8 = (7) x (5) | 9                           |
| <b>Part-B: CONTRACTOR ASSESSED QUANTITIES</b> |  |                   |           |          |  |           |               |                             |
| <b>PART I</b>                                 | <b>TRANSMISSION UPGRADE</b>  |                   |           |          |  |           |               |                             |
| F   | Supply of Earthing of towers as required   |                   | Lot       | 1        |  |           |               |                             |
| H   | <b>Erection Hardware</b>   |                   |           |          |  |           |               |                             |
| 1   | All necessary accessories, hardware and fittings (Tension, suspension clamps, Connector etc) required to complete the HTLS stringing works completely  |                   | Lot       | 1        |  |           |               |                             |
| 2   | Twenty (20) percent spare parts equivalent in cost of all necessary accessories, hardware & fittings of item no. H.1   |                   | Lot       | 1        |  |           |               |                             |
| 3   | All tools and tackles required for the installation of the HTLS conductor.   |                   | Lot       | 1        |  |           |               |                             |
|   |  |                   |           |          |  |           |               |                             |
| <b>PART II</b>                                | <b>SUBSTATION WORKS</b>  |                   |           |          |  |           |               |                             |
| I   | <b>Erection Hardware</b>   |                   |           |          |  |           |               |                             |
|   | Conductor, Al tube, bus-bar materials, cable trays, clamps, spacers, connectors including equipment connectors, Junction box, earthwire, buried cable trenches/pipe equipment & lighting, all accessories etc. as required |                   | LS        | 1        |  |           |               |                             |
| J   | Earthing and lightning protection including necessary connectors/connections, risers etc. complete in all respect including counterpoise earthing where required   |                   |           |          |  |           |               |                             |
| 1.0   | Earth Conductor (copper)   |                   | LS        | 1        |  |           |               |                             |
| 2.0   | Earth Rod (copper clad steel)  |                   | LS        | 1        |  |           |               |                             |

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**FC: Foreign Currency**

**Schedule No.1: Plant and Equipment including Mandatory Spares to be supplied from abroad**

**LC: Local Currency**

| Item No. | Item description  | Country of origin | Estimated |          | CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal) |           |               | Custom, VAT and other taxes |
|----------|---|-------------------|-----------|----------|--|-----------|---------------|-----------------------------|
|          |   |                   | Unit      | Quantity | FC   |           |               | LC                          |
|          |   |                   |           |          | Currency#  | Unit Rate | Amount        |                             |
| 1        | 2   | 3                 | 4         | 5        | 6  | 7         | 8 = (7) x (5) | 9                           |
| <b>K</b> | <b>POWER &amp; CONTROL CABLES</b>   |                   |           |          |  |           |               |                             |
| 1        | Power Cables(PVC)- (1.1kV grade)  |                   | LS        | 1        |  |           |               |                             |
| 2        | Control Cable (PVC)- (1.1kV grade)  |                   | LS        | 1        |  |           |               |                             |
| 3        | Cable glands, lugs & straight through joints for Power & Control cables   |                   | LS        | 1        |  |           |               |                             |
| L        | 132kV 1200 Sq.mm Cu XLPE Cable with termination for connection from existing GIS to GIS complete with earthing and other accessories. Tentative length required 60m (Balaju SS) |                   | LS        | 1        |  |           |               |                             |
| M        | Hot line Maintenance Tools and equipments for transmission Line, complete as per TS   |                   | LS        | 1        |  |           |               |                             |
|          | <b>Sub-Total Part-B</b>   |                   |           |          |  |           |               |                             |
|          | <b>Part-C: Mandatory Spares</b>   |                   |           |          |  |           |               |                             |
|          | <b>Sub-Total Part-C</b>   |                   |           |          |  |           |               |                             |
|          | <b>Total of [(Part-A+ Part-B+ Part C)]</b>  |                   |           |          |  |           |               |                             |
|          | <b>Carried to General Summary</b>   |                   |           |          |  |           |               |                             |

Note : 1) Bidder is required to quote prices in this Schedule for all the individual items/sub-items.

2.) The Prices of equipments are inclusive of type test charges.

3.) BOQ given above is indicative only based on the scope of work as given in Employer's Requirements. The quantities mentioned above may undergo change during detailed engineering to meet the functional requirement and scope of work defined in Employer's Requirements.

Specify currency in accordance with BDS ITB Clause 32.1, Part-I of the Bidding Documents.

\* Strike-out whichever is not applicable.

**Name of Bidder:**

**Signature of Bidder:**

**(Printed Name)**

**(Designation)**

**(Common Seal)**

Name of Bidder:

Signature of Bidder:

**NEPAL ELECTRICITY AUTHORITY**  
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Electricity Grid Mordernization Project (EGMP)  
PMD/EGMP/TLUP-077/78-01 (RE), Transmission Line Upgrading Project

Schedule No.2: Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal LC: Local Currency (ALL Price in Local Currency)

| Item No.   | Item description                              | Unit | Quantity | Ex Factory Price (Excluding VAT) in LC |               | Inland transportation to site in LC |           | Total Amount (Excluding Taxes ) | Custom, VAT and other taxes |
|------------|---|------|----------|--|---------------|-------------------------------------|-----------|---------------------------------|-----------------------------|
|            |   |      |          | Unit Rate                              | Amount        | Unit Rate                           | Amount    |                                 |                             |
| 1          | 2   | 3    | 4        | 5                                      | 6 = (4) x (5) | 7                                   | 8=(4)x(7) | 9=6+8                           | 10                          |
| <b>0.0</b> | <b>TRANSMISSION LINE CONDUCTOR UPGRADE</b>    |      |          |  |               |                                     |           |                                 |                             |
|            | <b>Part-A : EMPLOYER ASSESSED QUANTITIES</b>  |      |          |  |               |                                     |           |                                 |                             |
|            |   |      |          |  |               |                                     |           |                                 |                             |
|            |   |      |          |  |               |                                     |           |                                 |                             |
|            |   |      |          |  |               |                                     |           |                                 |                             |
|            |   |      |          |  |               |                                     |           |                                 |                             |
|            | <b>Sub-Total Part-A</b>                       |      |          |  |               |                                     |           |                                 |                             |
|            |   |      |          |  |               |                                     |           |                                 |                             |
|            | <b>Part-B: CONTRACTOR ASSESSED QUANTITIES</b> |      |          |  |               |                                     |           |                                 |                             |
|            |   |      |          |  |               |                                     |           |                                 |                             |
|            |   |      |          |  |               |                                     |           |                                 |                             |
|            |   |      |          |  |               |                                     |           |                                 |                             |
|            |   |      |          |  |               |                                     |           |                                 |                             |
|            |   |      |          |  |               |                                     |           |                                 |                             |
|            |   |      |          |  |               |                                     |           |                                 |                             |
|            | <b>Sub-Total Part-B</b>                       |      |          |  |               |                                     |           |                                 |                             |

## NEPAL ELECTRICITY AUTHORITY

PROJECT MANAGEMENT DIRECTORATE

Transmission Line Upgrading Project

Electricity Grid Modernization Project (EGMP)

PMD/EGMP/TLUP-077/78-01 (RE), Transmission Line Upgrading Project

Schedule No.2: Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal

LC: Local Currency (ALL Price in Local Currency)

| Item No. | Item description                           | Unit | Quantity | Ex Factory Price (Excluding VAT) in LC |               | Inland transportation to site in LC |           | Total Amount (Excluding Taxes) | Custom, VAT and other taxes |
|----------|--|------|----------|--|---------------|-------------------------------------|-----------|--------------------------------|-----------------------------|
|          |  |      |          | Unit Rate                              | Amount        | Unit Rate                           | Amount    |                                |                             |
| 1        | 2  | 3    | 4        | 5                                      | 6 = (4) x (5) | 7                                   | 8=(4)x(7) | 9=6+8                          | 10                          |
|          | <b>Part-C: Mandatory Spares</b>            |      |          |  |               |                                     |           |                                |                             |
|          |  |      |          |  |               |                                     |           |                                |                             |
|          |  |      |          |  |               |                                     |           |                                |                             |
|          |  |      |          |  |               |                                     |           |                                |                             |
|          |  |      |          |  |               |                                     |           |                                |                             |
|          |  |      |          |  |               |                                     |           |                                |                             |
|          | <b>Sub-Total Part-C</b>                    |      |          |  |               |                                     |           |                                |                             |
|          | <b>Total of [(Part-A+ Part-B+ Part C)]</b> |      |          |  |               |                                     |           |                                |                             |
|          | <b>Carried to General Summary</b>          |      |          |  |               |                                     |           |                                |                             |

Note : 1) Bidder is required to quote prices in this Schedule for all the individual items/sub-items.

2.) The Prices of equipments are inclusive of type test charges.

3.) BOQ given above is indicative only based on the scope of work as given in Employer's Requirements. The quantities mentioned above may undergo change during detailed engineering to meet the functional requirement and scope of work defined in Employer's Requirements.

# Specify currency in accordance with BDS ITB Clause 32.1, Part-I of the Bidding Documents.

\* Strike-out whichever is not applicable.

<sup>a</sup> Specify currency in accordance with ITB 19.1 of the BDS.

<sup>b</sup> Column 5 Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item or the customs duties and sales and other taxes already paid on previously imported items.

Name of Bidder:

Date:

Signature of Bidder:

(Printed Name)

(Designation)

(Common Seal)



# NEPAL ELECTRICITY AUTHORITY

PROJECT MANAGEMENT DIRECTORATE

## Transmission Line Upgrading Project

**Electricity Grid Mordernization Project (EGMP)**

PMD/EGMP/TLUP-077/78-01 (RE), Transmission Line Upgrading Project

**Schedule A-3: Design Services**

| Item No. | Item Description                                 | Estimated      |      | Unit Prices            |                          | Total Prices |       |
|----------|--|----------------|------|------------------------|--------------------------|--------------|-------|
|          |  |                |      | Local Currency Portion | Foreign Currency Portion |              |       |
|          |  | Quantity       | Unit | NRs                    | Currency                 |              |       |
| 1        | 2  | 3              | 4    | 5                      | 6                        | 7=3x5        | 8=3x6 |
| 0        |  | Not Applicable |      |                        |                          |              |       |
|          |  |                |      |                        |                          |              |       |
|          |  |                |      |                        |                          |              |       |
|          | <b>Total carried forward to General Summary)</b> |                |      |                        |                          |              |       |

**Name of Bidder:**  
**Signature of Bidder:**  
 (Printed Name)  
 (Designation)  
 (Common Seal)

**Date:**

**NEPAL ELECTRICITY AUTHORITY**  
PROJECT MANAGEMENT DIRECTORATE  
**Transmission Line Upgrading Project**

**Electricity Grid Modernization Project (EGMP)**

PMD/EGMP/TLUP-077/78-01 (RE), Transmission Line Upgrading Project

**Schedule No. 4 : Installation and Other Services****FC: Foreign Currency****(a): Installation and Construction Charges****LC: Local Currency**

| Sl. No.       | Item Description  | Installation Charges |                    |      |        |                             |           |               |                                       |               |
|---------------|---|----------------------|--------------------|------|--------|-----------------------------|-----------|---------------|---------------------------------------|---------------|
|               |   | Country of Origin    | Type & Designation | Unit | Qty.   | Portion in Foreign Currency |           |               | Portion in Nepalese Currency (in NPR) |               |
|               |   |                      |                    |      |        | Currency#                   | Unit Rate | Total Charges | Unit Rate                             | Total Charges |
| (1)           | (2)   | (3)                  | (4)                | (5)  | (6)    | 7                           | 8.00      | 9=8x6         | 10.00                                 | 11=10x6       |
| <b>0.0</b>    | <b>TRANSMISSION LINE CONDUCTOR UPGRADE</b>  |                      |                    |      |        |                             |           |               |                                       |               |
|               | <b>Part-A : EMPLOYER ASSESSED QUANTITIES</b>  |                      |                    |      |        |                             |           |               |                                       |               |
| <b>PART I</b> | <b>SUB TRANSMISSION UPGRADE</b>   |                      |                    |      |        |                             |           |               |                                       |               |
| <b>A</b>      | Check Survey of existing Transmission line (Determination of tower type, span length, sag, hardware & accessories require in each tower, finding of missing members and earthing in each tower etc)   |                      |                    |      |        |                             |           |               |                                       |               |
| A.1           | Pathlaiya Dhalkebar DC Line   |                      |                    | LS   | 1      |                             |           |               |                                       |               |
| A.2           | Kusaha Duhabi DC Line   |                      |                    | LS   | 1      |                             |           |               |                                       |               |
| A.3           | Suichatar - Matatirtha DC ACSR Bear   |                      |                    | LS   | 1      |                             |           |               |                                       |               |
| A.4           | Suichatar - Balaju SC ACSR Duck   |                      |                    | LS   | 1      |                             |           |               |                                       |               |
| A.5           | Suichatar - Teku DC ACSR Bear   |                      |                    | LS   | 1      |                             |           |               |                                       |               |
| <b>B</b>      | Dismantling and storing of Existing ACSR Conductor, hardware & accessories and Stringing, tensioning, clamping, jointing etc of HTLS Conductor including fitting of all necessary line materials complete and Testing and Commissioning of Line |                      |                    |      |        |                             |           |               |                                       |               |
| B.1           | Dismantling of Existing ACSR Conductor, hardware, accessories, fittings and storage at NEA Site store   |                      |                    | Km   | 900.0  |                             |           |               |                                       |               |
| B.2           | Stringing of HTLS conductor with installation of all <i>required</i> hardwares and accessories and testing and commissioning of Transmission line as specified  |                      |                    |      |        |                             |           |               |                                       |               |
| B.2.1         | High Tension Low Sag (HTLS) Conductor equivalent ACSR Bear  |                      |                    | Km   | 885.00 |                             |           |               |                                       |               |
| B.2.2         | High Tension Low Sag (HTLS) Conductor equivalent ACSR Duck  |                      |                    | Km   | 15.00  |                             |           |               |                                       |               |
|               | <b>SUB TOTAL 'A'</b>  |                      |                    |      |        |                             |           |               |                                       |               |
|               | <b>B Insulators with hardware fitting and accessories</b>   |                      |                    |      |        |                             |           |               |                                       |               |
| B.1           | Design, manufacture, testing and Supply of Disc Insulators 70 KN with fittings  |                      |                    | Nos. | 500    |                             |           |               |                                       |               |
| B.2           | Design, manufacture, testing and Supply of Disc Insulators 120 KN with fittings   |                      |                    | Nos. | 500    |                             |           |               |                                       |               |
|               | Accessories   |                      |                    |      |        |                             |           |               |                                       |               |
| B.3           | Vibration Damper for HTLS Conductor as per A.1  |                      |                    | Nos  | 2680   |                             |           |               |                                       |               |
| B.4           | Vibration Damper for HTLS Conductor as per A.2  |                      |                    | Nos  | 40     |                             |           |               |                                       |               |
| B.5           | Mid span compression joint for HTLS conductor (A.1)   |                      |                    | Nos  | 80     |                             |           |               |                                       |               |
| B.6           | Mid span compression joint for HTLS conductor (A.2)   |                      |                    | Nos  | 10     |                             |           |               |                                       |               |
| B.7           | Repair Sleeve for HTLS conductor (A.1)  |                      |                    | Nos  | 80     |                             |           |               |                                       |               |
| B.8           | Repair Sleeve for HTLS conductor (A.2)  |                      |                    | Nos  | 10     |                             |           |               |                                       |               |
|               | <b>SUB TOTAL 'B'</b>  |                      |                    |      |        |                             |           |               |                                       |               |

**NEPAL ELECTRICITY AUTHORITY**  
PROJECT MANAGEMENT DIRECTORATE  
**Transmission Line Upgrading Project**

**Electricity Grid Mordernization Project (EGMP)**  
PMD/EGMP/TLUP-077/78-01 (RE), Transmission Line Upgrading Project

**Schedule No. 4 : Installation and Other Services**  
**(a): Installation and Construction Charges**

**FC: Foreign Currency**

**LC: Local Currency**

| Sl. No.                 | Item Description   | Installation Charges |                    |      |      |                             |           |               |                                       |               |
|-------------------------|--|----------------------|--------------------|------|------|-----------------------------|-----------|---------------|---------------------------------------|---------------|
|                         |  | Country of Origin    | Type & Designation | Unit | Qty. | Portion in Foreign Currency |           |               | Portion in Nepalese Currency (in NPR) |               |
|                         |  |                      |                    |      |      | Currency#                   | Unit Rate | Total Charges | Unit Rate                             | Total Charges |
| (1)                     | (2)  | (3)                  | (4)                | (5)  | (6)  | 7                           | 8.00      | 9=8x6         | 10.00                                 | 11=10x6       |
| C.1                     | Design, fabrication & supply of following types of towers & tower extension parts complete with stubs, step bolts, hangers, D-shackles, bolts & nuts etc but excluding tower accessories such as danger plates, number plates, phase plates, anti-climbing devices |                      |                    |      |      |                             |           |               |                                       |               |
| 1                       | Tower as per Existing Design to replace existing tower   |                      |                    | Nos  | 0    |                             |           |               |                                       |               |
| 2                       | Tower parts & members to replace existing missing members  |                      |                    | MT   | 10   |                             |           |               |                                       |               |
| <b>TOTAL OF PART I</b>  |  |                      |                    |      |      |                             |           |               |                                       |               |
| <b>PART II</b>          | <b>SUBSTATION WORKS</b>  |                      |                    |      |      |                             |           |               |                                       |               |
| <b>D</b>                | <b>Design, Manufacture, Testing and Supply of</b>  |                      |                    |      |      |                             |           |               |                                       |               |
| 1                       | 132 kV, 3 Phase, 5 Core Current Transformer with all accessories as per Technical Specification.   |                      |                    | Nos  | 75   |                             |           |               |                                       |               |
| 2                       | 133 kV, 3 Phase, GIS Current Transformer with all accessories to replace in existing GIS as per Technical Specification. (for Balaju SS)   |                      |                    | Nos  | 3    |                             |           |               |                                       |               |
| <b>TOTAL OF PART I</b>  |  |                      |                    |      |      |                             |           |               |                                       |               |
| <b>Sub-Total Part-A</b> |  |                      |                    |      |      |                             |           |               |                                       |               |

**NEPAL ELECTRICITY AUTHORITY**  
PROJECT MANAGEMENT DIRECTORATE  
**Transmission Line Upgrading Project**

**Electricity Grid Mordernization Project (EGMP)**  
PMD/EGMP/TLUP-077/78-01 (RE), Transmission Line Upgrading Project

**Schedule No. 4 : Installation and Other Services**  
**(a): Installation and Construction Charges**

**FC: Foreign Currency**

**LC: Local Currency**

| Sl. No.        | Item Description  | Installation Charges |                    |      |      |                             |           |               |                                       |               |
|----------------|---|----------------------|--------------------|------|------|-----------------------------|-----------|---------------|---------------------------------------|---------------|
|                |   | Country of Origin    | Type & Designation | Unit | Qty. | Portion in Foreign Currency |           |               | Portion in Nepalese Currency (in NPR) |               |
|                |   |                      |                    |      |      | Currency#                   | Unit Rate | Total Charges | Unit Rate                             | Total Charges |
| (1)            | (2)   | (3)                  | (4)                | (5)  | (6)  | 7                           | 8.00      | 9=8x6         | 10.00                                 | 11=10x6       |
|                | <b>Part-B: CONTRACTOR ASSESSED QUANTITIES</b>   |                      |                    |      |      |                             |           |               |                                       |               |
| <b>PART I</b>  | <b>SUB TRANSMISSION UPGRADE</b>   |                      |                    |      |      |                             |           |               |                                       |               |
| F              | Earthing of towers as required  |                      |                    | Lot  | 1    |                             |           |               |                                       |               |
| H              | <b>Erection Hardware</b>  |                      |                    |      |      |                             |           |               |                                       |               |
| 1              | All necessary accessories, hardware and fittings (Tension, suspension clamps, Connector etc) required to complete the HTLS stringing works completely                           |                      |                    | LS   | 1    |                             |           |               |                                       |               |
| <b>PART II</b> | <b>SUBSTATION WORKS</b>   |                      |                    |      |      |                             |           |               |                                       |               |
| H              | <b>Erection Hardware</b>  |                      |                    |      |      |                             |           |               |                                       |               |
|                | All necessary accessories, hardware and fittings (Tension, suspension clamps, Connector etc) required to complete the HTLS stringing works completely                           |                      |                    | LS   | 1    |                             |           |               |                                       |               |
| I              | Earthing and lightning protection including necessary connectors/connections, risers etc. complete in all respect( but excluding LM structures for Lightning protection)        |                      |                    |      |      |                             |           |               |                                       |               |
| 1              | Earth Conductor (copper)  |                      |                    | LS   | 1    |                             |           |               |                                       |               |
| 2              | Earth Rod (copper clad steel)   |                      |                    | LS   | 1    |                             |           |               |                                       |               |
| J              | <b>POWER &amp; CONTROL CABLES</b>   |                      |                    |      |      |                             |           |               |                                       |               |
| 1              | Power Cables(PVC)- (1.1kV grade)  |                      |                    | LS   | 1    |                             |           |               |                                       |               |
| 2              | Control Cable (PVC)- (1.1kV grade)  |                      |                    | LS   | 1    |                             |           |               |                                       |               |
| 3              | Cable glands, lugs & straight through joints for Power & Control cables   |                      |                    | LS   | 1    |                             |           |               |                                       |               |
| E              | 132kV 1200 Sq.mm Cu XLPE Cable with termination for connection from existing GIS to GIS complete with earthing and other accessories. Tentative length required 60m (Balaju SS) |                      |                    | LS   | 1    |                             |           |               |                                       |               |
| F              | Reprogramming of the protection system in all substation  |                      |                    | LS   | 1    |                             |           |               |                                       |               |
|                | <b>Sub-Total Part-B</b>   |                      |                    |      |      |                             |           |               |                                       |               |

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PMD/EGMP/TLUP-077/78-01 (RE), Transmission Line Upgrading Project

**Schedule No. 4 : Installation and Other Services**  
**(a): Installation and Construction Charges**

**FC: Foreign Currency**

**LC: Local Currency**

| Sl. No. | Item Description  | Country of Origin | Type & Designation | Unit    | Qty. | Installation Charges        |           |               |                                       |               |
|---------|---|-------------------|--------------------|---------|------|-----------------------------|-----------|---------------|---------------------------------------|---------------|
|         |   |                   |                    |         |      | Portion in Foreign Currency |           |               | Portion in Nepalese Currency (in NPR) |               |
|         |   |                   |                    |         |      | Currency#                   | Unit Rate | Total Charges | Unit Rate                             | Total Charges |
| (1)     | (2)   | (3)               | (4)                | (5)     | (6)  | 7                           | 8.00      | 9=8x6         | 10.00                                 | 11=10x6       |
|         | <b>PART-C: Civil Works (As per technical specification)</b>   |                   |                    |         |      |                             |           |               |                                       |               |
| 1       | Excavation in all types of soil and rock including backfilling disposal etc. for all leads and lifts  |                   |                    | Cu.Mtr. | 100  |                             |           |               |                                       |               |
| 2       | Providing and laying of Plain Cement Concrete (PCC) (1:4:8)   |                   |                    | Cu.Mtr. | 20   |                             |           |               |                                       |               |
| 3       | Providing and laying of Plain Cement Concrete (PCC) (1:2:4)   |                   |                    | Cu.Mtr. | 20   |                             |           |               |                                       |               |
| 4       | Providing and laying of Reinforced Cement Concrete Design Mix (M25) including pre cast, shuttering, Grouting of pockets & underpinning but excluding steel reinforcement. |                   |                    | Cu.Mtr. | 100  |                             |           |               |                                       |               |
| 5       | Providing and laying Plain Cement Concrete 1:5:10 (1 cement : 5 sand : 10 Stone aggregate)  |                   |                    | Cu.Mtr. | 20   |                             |           |               |                                       |               |
| 6       | Steel Reinforcement (Fe 500)  |                   |                    | MT      | 1    |                             |           |               |                                       |               |
|         | <b>Sub-Total Part-C</b>   |                   |                    |         |      |                             |           |               |                                       |               |
|         | <b>Total of [(Part-A+ Part-B+ Part C)]</b>  |                   |                    |         |      |                             |           |               |                                       |               |
|         | <b>Carried to General Summary</b>   |                   |                    |         |      |                             |           |               |                                       |               |

# Specify currency in accordance with ITB Clause 12.1 and corresponding BDS clauses, Vol.I of the Bidding Documents.

**Name of Bidder:**  
**Signature of Bidder:**  
**(Printed Name)**  
**(Designation)**  
**(Common Seal)**

**Date:**

**NEPAL ELECTRICITY AUTHORITY**  
PROJECT MANAGEMENT DIRECTORATE  
**Transmission Line Upgrading Project**

**Electricity Grid Mordernization Project (EGMP)**

PMD/EGMP/TLUP-077/78-01 (RE), Transmission Line Upgrading Project

**Schedule No. 4 : Installation and Other Services** *(Common for all)*

**(b): Training Charges for training to be imparted to Employer's Personnel by Bidder's Instructor in Nepal**

| Sl. No.   | Description of the Test   | Item for which training is to be imparted. | Training duration in days | Training Charges for Contractors Trainers |           |                        |
|---|---|--|---------------------------|---|-----------|------------------------|
|   |   |  |                           | Currency                                  | Unit rate | Total Training Charges |
| 1   | 2   | 3  | 4                         | 5   | 6         | 7 = 4x 6               |
| a)  | On Job training on operation, maintenance and erection of HTLS Conductor as per Technical Specification | i) HTLS Conductor                          | 6                         |   |           |                        |
|   |   | ii) Hardwares                              | 6                         |   |           |                        |
| b)  | Training of Hotline Maintenance Equipment   |  | 15                        |   |           |                        |
| <b>Total for Training Charges ( Total of column 7 to be carried forward to Schedule 5: Grand Summary)</b> |   |  |                           |   |           |                        |

2. On Job Training in Nepal: The traveling and living expenses of Owner's personnel for the training programme conducted in Nepal shall be borne by the Owner.

Date:

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Common Seal: \_\_\_\_\_

NOTE: To and fro charges and accommodation for the Instructor (Trainer) and Training material for the Trainees shall be included in the prices quoted by the bidder. However, arrangements for trainees and premises for conducting the training shall be arranged by OWNER.

**NEPAL ELECTRICITY AUTHORITY**  
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**Transmission Line Upgrading Project**

**Electricity Grid Mordernization Project (EGMP)**  
 PMD/EGMP/TLUP-077/78-01 (RE), Transmission Line Upgrading Project

**Schedule No. 5: Grand Summary**

| Sl. No. | Description   | Total Price Foreign<br>( )* | Total Price Local<br>( )* |
|---------|---|-----------------------------|---------------------------|
| 1       | <b>TOTAL SCHEDULE NO. 1</b>   |                             |                           |
|         | Plant and Equipment including Mandatory Spares to be supplied from abroad.            |                             |                           |
| 2       | <b>TOTAL SCHEDULE NO. 2</b>   |                             |                           |
|         | Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal |                             |                           |
| 3       | <b>TOTAL SCHEDULE NO. 3</b>   |                             |                           |
|         | Design Services   |                             |                           |
| 4       | <b>TOTAL SCHEDULE NO. 4</b>   |                             |                           |
|         | (a) Installation and construction charges   |                             |                           |
|         | (b) Training charges for training to be imparted in Nepal                             |                             |                           |
|         | <b>GRAND TOTAL [1+2+3+4]</b>  |                             |                           |