

नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED



भारत सरकार का उद्यम: A Govt. of India Enterprise

मिनीरत्ना : श्रेणी-I: Miniratna : Category-I

एनटीपीसी लिमिटेड की पूर्ण स्वामित्व वाली सहायक कंपनी

A Wholly owned subsidiary of NTPC Ltd



OFFICE OF THE EXECUTIVE DIRECTOR (CONTRACTS & PROCUREMENT)

CORRIGENDUM No. 11 Dated 10. 04. 2026

To

NIB No.487 Dated: 09.01.2026

For

EPC Execution of Power House Electro Mechanical Works of 240 MW Heo HEP, Arunachal Pradesh.

Volume II Section-II, Particular Technical Specifications, Sub-sec-07: UNIT CONTROL, SCADA, AUTOMATION & COMMUNICATION:

Clause No.7.1: Scope

The Revised Clause No. 7.1(Scope), is attached to this Corrigendum.

Executive Director
Contract & Procurement
NEEPCO, Shillong.

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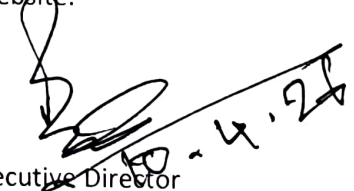


OFFICE OF THE EXECUTIVE DIRECTOR (CONTRACTS & PROCUREMENT)

Not in Original

Memo No. QP/C&P/F/E/Heo HEP(E-M)/ 2138/VOL-1/2025-26/ **67-78** Dated: 10.04.2026

1. The Chairman and Managing Director, NEEPCO, Shillong for favour of kind information please.
2. The Director (Finance), NEEPCO, Shillong, for favour of kind information please.
3. Dr. Akhilesh Kumar Ambasht, IFoS (Retd.), Independent External Monitor (IEM) of NEEPCO, 5606, Orchid Crescent, DLF-Phase-IV, Sector-27, Gurugram-122009 (Haryana), E-mail: aambasht89@rediffmail.com, for favour of kind information please.
4. Shri Vijai Prakash Pathak, IRSS (Retd.), Independent External Monitor (IEM) of NEEPCO, House No. 58, IRWO Sangam Vatika, Devprayagram, Jhalwa, Prayagraj – 211012, E-mail: vppathak@hotmail.com, for favour of kind information please.
5. The CTO, NEEPCO, Shillong, for favour of kind information please.
6. The ED Projects (Hydro), NEEPCO, Guwahati, for kind information please.
7. The ED, D&E, NEEPCO, Guwahati, for kind information please.
8. The ED, CPMG, NEEPCO Ltd., Guwahati, for kind information please.
9. The ED(Finance), NEEPCO, Shillong for kind information please.
10. The Head of Project, Heo HEP, NEEPCO, Dist- Shi Yomi, Arunachal Pradesh, for information please.
11. The CGM (IT), NEEPCO, Shillong for information with a request to arrange for uploading the Corrigendum at NEEPCO Website.
12. The Assistant Hindi Officer, Hindi Section, NEEPCO, Shillong, for translating the Corrigendum to Hindi. It is also requested to forward the Hindi Version of the Corrigendum to IT Wing, Shillong for uploading in NEEPCO Website.


Executive Director
Contract & Procurement
NEEPCO, Shillong.

EPC execution of Power House Electro-Mechanical Works for Heo Hydro Electric Project (240 MW)		Particular Technical Specifications
		Volume II Section-II
		Sub-Sec. 7: Unit Control, SCADA, Automation & Communication

7 UNIT CONTROL, SCADA, AUTOMATION & COMMUNICATION

7.1 Scope

The scope covers the detailed requirements for the design, manufacture, factory testing, transport, delivery, installation, site testing and commissioning of the Unit Control, SCADA and Automation hot redundant systems including all associated equipment and cabling including integration of the electrical and mechanical equipment for their monitoring and control from the main SCADA in the powerhouse control room. Included in the scope is the integration of monitoring and controls of the equipment at remote sites (viz. the Intake area, Valve house, Tato-1 PH etc.) from the Powerhouse control room SCADA. Plant SCADA shall also include integration with GIS SCADA & automation. The supply shall include all software, parts, devices, accessories and special tools, which though not individually specified, but are necessary to construct, operate and maintain the complete Unit Control, SCADA, automation and communication systems as described hereafter. All hardware and Software shall be 100% compliant to OPC Specifications and shall be OPC Certified.

The Contractor shall design and commission a complete communication system such as described below. All devices, parts, accessories and special tools necessary for the equipment and contract complete system shall be supplied by the Contractor, even if those are not individually listed or specified.

- An Optic Fiber communication system between the Control Room and the remote locations. The Fiber Optic cable shall be supplied and laid under this package and shall be terminated, tested and commissioned by the Contractor;
- ADSS / OFC (type selection during detailed engineering) along with all accessories required for installation (overhead / underground).
- The Fiber Optic Server Station (OWS4) located in the Control Room;
- At each site, the Optic Fiber Cables will be connected to Fiber Patch Panels;
- At the Powerhouse, the Optic Fiber communications integration to the powerhouse LAN-1 and LAN-2 networks.

The Contractor shall ensure that the data flowing between the different locations, and issued from two different communication systems, are correctly transferred to the final points without collision.

All equipment/ components shall be suitable for operation at an altitude up to 1200 m

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above MSL.

Further, The Tato-I HEP and The Heo HEP (The Tato-I HEP is located at the downstream of the Heo HEP) will operate in Tandem operation. The contractor must meet the following conditions for the tandem operation of hydro power plants: -Fundamental principle for tandem operation is that the water of upstream power house is used to generate power at downstream power house. The design of both projects shall be such that the design discharge for both plants is nearly same.

- The design as well as working head to be nearly in same ratio as that of their unit as well as plant rating.
- The number of units in both plants shall be same.
- Each unit of upstream plant corresponds to one unit of downstream plant. However, 30 Cumecs water for downstream plant shall be available from Tato-1 Weir intake channel for operation of one unit at partial load even if upstream plant is out of service.
- During initial start up the time required to fill and reach from Upstream (U/S) plant to downstream (D/S) plant shall be assessed.
- Dual and Positive communication link to be available between both plants. This is required for VOICE, DATA and CONTROL COMMAND to and fro transfer (both ways).
- Up-stream Power house i.e Heo shall be a master station and Down-stream Powerhouse i.e. Tato-I shall be slave station.
- There is escape between water conductor connecting U/S and D/S stations.
- This escape is sufficient for escape of discharge from all units of U/S power plant.
- Governors of both shall operate in tandem and programmed in such a manner that there is proportionate increase/decrease in output of D/S plant as soon as the U/S plant output increases/decreases.
- The D/S plant shall be a follower station with U/S plant being a lead station. Hence the D/S plant to be remote controlled from U/S plant.
- Dual Fibre link to be established (2 separate FO cable). OPGW and OPGW terminal equipment shall not be within present scope of work. Required interfacing with OPGW terminal equipment shall be within the contract scope.

Based on above, the Heo Control room will be designed as master control room for both Heo & Tato-I and will exercise overall/Master control on the Tato-I units. Any tripping/ non-

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operation of a unit at Heo plant will ensure corresponding reduction of load or withdrawal of unit at Tato-I. For communication of Voice, Data & Control command between the two stations, two nos. Optical fibre cable (OFC) between the two stations shall be used. The scope for supply of this OFC link is not included in this package. OFC cables between the two stations shall be supplied by the Tato-1 EM Package Contractor. However, all terminal equipment/hardware at Heo station required for interconnection and necessary inputs for interfacing shall be in the scope of this package. Separate fibres of both the FO cables will be used to provide redundancy for the communication link. The DCS/SCADA system for the two stations will be designed satisfying the above requirements for both remote and local modes. OFC link between Powerhouse and Barrage site and Valve house site shall be in the scope of the bidder. Site survey is under bidder's scope and required cable length shall be assessed. The distance between the barrage and power house is approximately 5KM.

All equipment and components required to complete the above-mentioned work, including integration with the Tato-1 HEP, shall be supplied, installed, tested, commissioned by the contractor.