



ISO: 9001, 14001,  
& 45001

नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड

(मिनी रत्न, श्रेणी-I, भारत सरकार का उद्यम)

**NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED**

(Mini Ratna, Category-I, Government of India Enterprise)

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**Corrigendum No. 4 Dated 11-06-2020**

To

**NOTICE INVITING BIDS (NIB) No. 353 Dated 23-04-2020**

**(DOMESTIC COMPETITIVE BIDDING)**

**FOR**

**“Design, Fabrication, Supply, Erection, Testing & Commissioning of Penstock and Steel In-Liners in Umrong System of Kopili Hydro Electric Project (275 MW), Assam”**

The following Corrigenda to the Bid document are hereby issued:

**Part-1: Detail NIB**

1. Sl. No. (d), (e) & (f) of Clause No. 14 shall be read below:

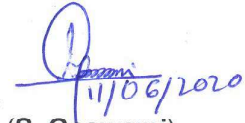
|    |                                                                                         |                                |
|----|-----------------------------------------------------------------------------------------|--------------------------------|
| d) | Last date & time for submission of online bids                                          | Upto 14:00 Hours of 09-07-2020 |
| e) | Last date & time for receipt of offline documents to be submitted as per bid conditions | Upto 14:00 Hours of 16-07-2020 |
| f) | Date & time for opening of Techno-Commercial bids online                                | At 14:00 Hours on 10-07-2020   |

**Part-4: Conditions of Contract**

2. The “Model Quality Assurance Plan (Appendix-V)” referred at Clause No. 46 stands replaced by “Revised Model Quality Assurance Plan (MQAP) (Appendix-V)”. The revised MQAP (Appendix-V) is attached herewith.

All others terms and conditions of the Bid Document shall remain unchanged.

Enclosed: As above.



(S. Goswami)

**Chief General Manager (C)  
I/C Contracts & Procurement**

Revised Quality Assurance Plan (Model)

| Name of Project : Kopili HEP (4 x 50 MW)       |                                            |                                    |                            |                                          | Client :         |                   |         |        |         |
|------------------------------------------------|--------------------------------------------|------------------------------------|----------------------------|------------------------------------------|------------------|-------------------|---------|--------|---------|
| Name of Equipment : Penstock / Steel In-Liners |                                            |                                    |                            |                                          | Vendor:          |                   |         |        |         |
|                                                |                                            |                                    |                            |                                          | Agreement No.:   |                   |         |        |         |
| S. No                                          | Activity / Operation                       | Nature of Check                    | Quantum of check           | Reference document / Acceptance Norms    | Format of Record | INSPECTION AGENCY |         |        | Remarks |
|                                                |                                            |                                    |                            |                                          |                  | Perform           | Witness | Verify |         |
| I                                              | Raw Material                               |                                    |                            |                                          |                  |                   |         |        |         |
| 1                                              | Plates                                     | Chemical and Mechanical Properties | 1/Heat                     | Tech. Spec./Relevant std./Approved Drgs. | Test Certificate | 2/3               | 3       | 1      | TC      |
| 2                                              | NDT of Steel Plates                        | UT                                 | 1/Heat                     | Tech. Spec./Relevant std./Approved Drgs. | Test Certificate | 2/3               | 3       | 1      | TC      |
| 3                                              | Hardware                                   | Dimensiona and Material Properties | 100 %                      | -do-                                     | Test Certificate | 2/3               | 3       | 1      | TC      |
| II In Process Inspection                       |                                            |                                    |                            |                                          |                  |                   |         |        |         |
| 1                                              | Surface defect                             | Visual                             | 100%                       | Tech. Spec./Relevant std./Approved Drgs. | JIR/log Book     | 2                 | 3 & 1   |        | CHP     |
| 2                                              | Plate Rolling & Assembly                   | Visual/Measurement                 | 100%                       | Tech. Spec./Relevant std./Approved Drgs. | JIR/log Book     | 2                 | 3 & 1   |        | CHP     |
| 3                                              | Edge Preparation & Fit Up                  | Visual/Dimensional                 | 100%                       | Tech. Spec./Relevant std./Approved Drgs. | JIR/log Book     | 2                 | 3 & 1   |        | CHP     |
| 4                                              | Welding Examination (Shop Welding)         |                                    |                            |                                          |                  |                   |         |        |         |
| (i)                                            | Filllet                                    | D P test                           | 100% of fillet Weld length | Tech. Spec./Relevant std./Approved Drgs. | IR               | 2                 | 3       | 1      | RR      |
| (ii)                                           | Charpy "V-Notch" impact test at -40 degree | Weld Notch toughness               | Sample                     | Tech. Spec./Relevant std./Approved Drgs. | TC               | 2                 | 3       | 1      | TC      |
| 5                                              | Pre heat as per WPS                        | Measurement                        | 100%                       | Tech. Spec./Relevant std./Approved Drgs. | IR               | 2                 | 3       | 1      | RR      |
| 6                                              | Post Weld Heat treatment as per WPS        | Visual                             | 100%                       | Tech. Spec./Relevant std./Approved Drgs. | IR               | 2                 | 3       | 1      | RR      |

| III Final Inspection                               |                                       |                             |       |                                            |              |   |       |   |     |
|----------------------------------------------------|---------------------------------------|-----------------------------|-------|--------------------------------------------|--------------|---|-------|---|-----|
| 1                                                  | Dimensional Check of individual Liner | Measurement                 | 100%  | Tech. Spec/Relevant IS Code/Approved Drgs. | JIR          | 2 | 3 & 1 |   | CHP |
| 2                                                  | Welding Examination                   |                             |       |                                            |              |   |       |   |     |
| (i)                                                | Fillet                                | D P test                    | 10%   | Tech. Spec/Relevant std./Approved Drgs.    | JIR          | 2 | 3 & 1 |   | CHP |
| (ii)                                               | Butt Weld                             |                             |       |                                            |              |   |       |   |     |
| a.                                                 | Circumferential weld                  | UT                          | 100 % | Tech. Spec/Relevant std./Approved Drgs.    | JIR          | 2 | 3 & 1 | 1 | CHP |
| b.                                                 | Longitudinal weld                     | X-ray                       | 100%  | Tech. Spec/Relevant std./Approved Drgs.    | JIR          | 2 | 3 & 1 | 1 | CHP |
| 3                                                  | Hydro Test                            | Leakage & Adequacy of liner | 100%  | Tech. Spec/Relevant std./Approved Drgs.    | JIR/Log Book | 2 | 3 & 1 | 1 |     |
| 4                                                  | Painting                              | Visual & Measurement (DFT)  | 10%   | Tech. Spec/Relevant IS Code/Approved Drgs. | JIR          | 2 | 3 & 1 | 1 | CHP |
| IV                                                 | Site Inspection                       |                             |       |                                            |              |   |       |   |     |
| 1                                                  | Site Assembly                         |                             |       |                                            |              |   |       |   |     |
| (i)                                                | Ferrules                              |                             | 100 % | Tech. Spec/Relevant IS Code/Approved Drgs. | JIR          | 2 | 3 & 1 |   | CHP |
| (ii)                                               | Specials                              | Visual & Dimensional Check  | 100%  | Tech. Spec/Relevant IS Code/Approved Drgs. | JIR          | 2 | 3 & 1 |   | CHP |
| 2                                                  | Welding Examination                   |                             |       |                                            |              |   |       |   |     |
| (i)                                                | Fillet                                | D P test                    | 10 %  | Tech. Spec/Relevant std./Approved Drgs.    | JIR          | 2 | 3 & 1 |   | CHP |
| (ii)                                               | Butt Weld                             |                             |       |                                            |              |   |       |   |     |
| a.                                                 | Circumferential weld                  | UT                          | 100%  | Tech. Spec/Relevant std./Approved Drgs.    | JIR          | 2 | 3 & 1 |   | CHP |
| b.                                                 | Longitudinal weld                     | UT                          | 100%  | Tech. Spec/Relevant std./Approved Drgs.    | JIR          | 2 | 3 & 1 |   | CHP |
| Seal & Signature of Contractor's QA Representative |                                       |                             |       |                                            |              |   |       |   |     |
| QA / FQA (NEEPCO)                                  |                                       |                             |       |                                            |              |   |       |   |     |

Note : 1. In 'Inspection Agency' column figure 1 will indicate 'NEEPCO' 2 will indicate 'Contractor/Subcontractor' 3- will indicate 'Third party' of contractor.  
2. In 'Remarks' column abbreviation used shall be as below  
JIR- Joint Inspection Report, IR - Internal Record, RR- Review of Report, TC- Test certificate and CHP- Client Hold Point.