

| 3 x 800 MW PVUNL PATRATU TPP PHASE-I                                                                     |                   |               |               |                                      |       |          |                                          |                                           |                                      |                      |          |          |                  |                               |
|----------------------------------------------------------------------------------------------------------|-------------------|---------------|---------------|--------------------------------------|-------|----------|------------------------------------------|-------------------------------------------|--------------------------------------|----------------------|----------|----------|------------------|-------------------------------|
| MS ROD FOR BELOW GROUND EARTHING                                                                         |                   |               |               |                                      |       |          |                                          |                                           |                                      |                      |          |          |                  |                               |
| Enquiry No. - PE/PG/PA1/E-6865/2021 dated 25.01.2022                                                     |                   |               |               |                                      |       |          |                                          |                                           |                                      |                      |          |          |                  |                               |
| BOQ cum Price Schedule                                                                                   |                   |               |               |                                      |       |          |                                          |                                           |                                      |                      |          |          |                  |                               |
| S. No.                                                                                                   | Item Description  | QTY FOR LOT 1 | QTY FOR LOT 2 | TOTAL ORDER QUANTITY (LOT 1 + LOT 2) | Units | HSN Code | UNIT EX- WORKS PRICE (DULY PACKED) (INR) | TOTAL EX- WORKS PRICE (DULY PACKED) (INR) | FREIGHT % in Terms of Total Ex-Works | Freight Amount (INR) | GST TYPE | GST RATE | GST Amount (INR) | Total F.O.R. Site Price (INR) |
| 1                                                                                                        | 40 mm dia. MS ROD | 410           | 410           | 820                                  | MT    | 7214     |                                          |                                           |                                      |                      |          |          |                  |                               |
| Total Price in Figures (INR)                                                                             |                   |               |               |                                      |       |          |                                          |                                           |                                      |                      |          |          |                  |                               |
| Total Price in Words (INR)                                                                               |                   |               |               |                                      |       |          |                                          |                                           |                                      |                      |          |          |                  |                               |
| NOTE:                                                                                                    |                   |               |               |                                      |       |          |                                          |                                           |                                      |                      |          |          |                  |                               |
| 1. Overall tolerance on total dispatched quantity shall be restricted to $\pm 3\%$ in line with IS 2062. |                   |               |               |                                      |       |          |                                          |                                           |                                      |                      |          |          |                  |                               |

**PROJECT: 3x800 MW PATRATU**  
**PACAKGE: - MS ROD FOR BELOW GROUND EARTHING**  
**INSTRUCTIONS TO PACKING LIST**

For faster verification of bills, successful bidder to submit detailed Bill of Material (BOM) at the time of drawings/ documents submission after placement of PO. Each item of the BOM to be uniquely identified with item code no. or item Sl. No. Supplier to ensure that all items which will find separate mention in the packing list are covered in this detailed BOM.

Supplier to also give the following undertaking in the BOM:

“The BOM provided herewith completes the scope (in content and intent) of material supply under PO No. .... Dated ..... Any additional material which may become necessary for the intended application of the supplied items/package will be supplied free of cost in most reasonable time.

Packing List must indicate:

- a) Packing size
- b) Gross weight and net weight of each package
- c) Contents of the package with cross reference to BOM item code no. / Sl. No.
- d) Quantity of each items separately.

The packing list must cover all the BOM items.

Supplier to give following undertaking in the packing list:

The Packing list provided herewith is as per BOM approved under PO No. -----

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## ON COMPANY LETTER HEAD

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To,

M/s Bharat Heavy Electricals Ltd.,  
Project Engineering Management,  
Power Project Engineering Institute,  
HRD & ESI Complex, Plot No 25, Sector-16 A,  
Noida-201301

**Project: 3X800 MW PVUNL PATRATU TPP PHASE-I**

**Package: MS ROD FOR BELOW GROUND EARTHING**

**Reference:** Tender Enquiry No: PE/PG/PA1/E-6865/2021 Dated: 25.01.2022.

We have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries as per the guidelines dated 23.07.2020 issued by Department of Expenditure (DoE), Ministry of Finance;

We hereby certify that we are not from such a country and we are eligible to be considered.

We further certify that we will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority.

We hereby certify that we shall fulfil all requirements in this regard

**Name of Bidding Company/Firm:**

**Name of Authorised Signatory:**

**Designation of Authorised Signatory:**

**Official Seal of the Bidding Company/Firm:**

### **Notes:**

1. Please note that **Owner/ Partner/ CMD/ Director/ Authorized Signatory with proof that he/she is authorized to sign on owner's behalf**
2. Wherever applicable, evidence of valid registration by the competent authority shall be attached.

**Letter head of Company**

Ref \_\_\_\_\_

Date \_\_\_\_\_

To,

Bharat Heavy Electricals Limited PEM,

PPEI Building, Plot No 25, Sector -16A,

Noida (U.P.)-201301

**Subject: -Certification regarding local content**

Reference: Tender Enquiry No- PE/PG/PA1/E-6865/2021

Name of Package: MS ROD FOR BELOW GROUND EARTHING

Dear Sir,

We hereby certify that items offered by us of MS ROD for 3 x 800 MW PVUNL PATRATU TPP PHASE-I meets the requirement of minimum local content in line with NIT Cl. No. 3 of NIT No. PE/PG/PA1/E-6865/2021 date 25.01.2022 and the Public Procurement (Preference to Make in India), Order 2017 dated-15.06.2017, 28.05.2018, 29.05.2019 , 04.06.2020 & 16.09.2020.

Local Content: \_\_\_\_\_%

We further confirms that details of location at which the local value addition is made will be our registered works at \_\_\_\_\_ (address of the works)

Yours very truly

\_\_\_\_\_ (authorized signatory of company)

----- (firm name)



**BHEL**  
**Tenders**

## Government eProcurement System

### Tender Details

Date : 25-Jan-2022 06:13 PM

Print

#### Basic Details

|                                             |                                                              |                                              |        |
|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------|--------|
| <b>Organisation Chain</b>                   | Bharat Heavy Electricals Limited  PEM - Noida  Project Group |                                              |        |
| <b>Tender Reference Number</b>              | E-6865/21                                                    |                                              |        |
| <b>Tender ID</b>                            | 2022_BHEL_7495_1                                             |                                              |        |
| <b>Tender Type</b>                          | Open Tender                                                  | <b>Form of contract</b>                      | Supply |
| <b>Tender Category</b>                      | Goods                                                        | <b>No. of Covers</b>                         | 2      |
| <b>General Technical Evaluation Allowed</b> | No                                                           | <b>ItemWise Technical Evaluation Allowed</b> | No     |
| <b>Payment Mode</b>                         | Not Applicable                                               | <b>Is Multi Currency Allowed For BOQ</b>     | No     |
| <b>Is Multi Currency Allowed For Fee</b>    | No                                                           | <b>Allow Two Stage Bidding</b>               | No     |

#### Cover Details, No. Of Covers - 2

| Cover No | Cover                         | Document Type | Description             |
|----------|-------------------------------|---------------|-------------------------|
| 1        | Techn Commercial Part-1 Bid   | .pdf          | Part-I Tender documents |
| 2        | Finance - Price Bid - Part-II | .xls          | Price Bid               |

#### Tender Fee Details, [Total Fee in ₹ \* - 0.00]

|                                     |      |                       |     |
|-------------------------------------|------|-----------------------|-----|
| <b>Tender Fee in ₹</b>              | 0.00 |                       |     |
| <b>Fee Payable To</b>               | Nil  | <b>Fee Payable At</b> | Nil |
| <b>Tender Fee Exemption Allowed</b> | No   |                       |     |

#### EMD Fee Details

|                        |       |                                                   |     |
|------------------------|-------|---------------------------------------------------|-----|
| <b>EMD Amount in ₹</b> | 0.00  | <b>EMD through BG/ST or EMD Exemption Allowed</b> | No  |
| <b>EMD Fee Type</b>    | fixed | <b>EMD Percentage</b>                             | NA  |
| <b>EMD Payable To</b>  | Nil   | <b>EMD Payable At</b>                             | Nil |

[Click to view modification history](#)

#### Work / Item(s)

|                                             |                                |                                  |                               |                              |                |
|---------------------------------------------|--------------------------------|----------------------------------|-------------------------------|------------------------------|----------------|
| <b>Title</b>                                | MS ROD                         |                                  |                               |                              |                |
| <b>Work Description</b>                     | MS ROD                         |                                  |                               |                              |                |
| <b>Pre Qualification Details</b>            | Please refer Tender documents. |                                  |                               |                              |                |
| <b>Independent External Monitor/Remarks</b> | NA                             |                                  |                               |                              |                |
| <b>Show Tender Value in Public Domain</b>   | No                             |                                  |                               |                              |                |
| <b>Tender Value in ₹</b>                    | 0.00                           | <b>Product Category</b>          | Machinery and Machining Tools | <b>Sub category</b>          | NA             |
| <b>Contract Type</b>                        | Tender                         | <b>Bid Validity(Days)</b>        | 180                           | <b>Period Of Work(Days)</b>  | 120            |
| <b>Location</b>                             | PATRATU PROJECT                | <b>Pincode</b>                   | 829119                        | <b>Pre Bid Meeting Place</b> | NA             |
| <b>Pre Bid Meeting Address</b>              | NA                             | <b>Pre Bid Meeting Date</b>      | NA                            | <b>Bid Opening Place</b>     | BHEL PEM NOIDA |
| <b>Should Allow NDA Tender</b>              | No                             | <b>Allow Preferential Bidder</b> | No                            |                              |                |

**Critical Dates**

|                                            |                      |                                          |                      |
|--------------------------------------------|----------------------|------------------------------------------|----------------------|
| <b>Publish Date</b>                        | 25-Jan-2022 06:55 PM | <b>Bid Opening Date</b>                  | 04-Feb-2022 03:00 PM |
| <b>Document Download / Sale Start Date</b> | 25-Jan-2022 06:55 PM | <b>Document Download / Sale End Date</b> | 04-Feb-2022 02:00 PM |
| <b>Clarification Start Date</b>            | 25-Jan-2022 06:55 PM | <b>Clarification End Date</b>            | 04-Feb-2022 02:00 PM |
| <b>Bid Submission Start Date</b>           | 25-Jan-2022 06:55 PM | <b>Bid Submission End Date</b>           | 04-Feb-2022 02:00 PM |

**Tender Documents**

|                     |      |                      |                         |                       |                       |
|---------------------|------|----------------------|-------------------------|-----------------------|-----------------------|
| NIT Document        | S.No | Document Name        | Description             | Document Size (in KB) |                       |
|                     | 1    | Tendernotice_1.pdf   | NIT                     | 317.15                |                       |
|                     | 2    | Tendernotice_2.pdf   | Tech Specification      | 162.04                |                       |
|                     | 3    | Tendernotice_3.pdf   | Tec PQR                 | 106.48                |                       |
|                     | 4    | Tendernotice_4.pdf   | Other Tender Docs       | 3295.35               |                       |
|                     |      |                      |                         |                       |                       |
| Work Item Documents | S.No | Document Type        | Document Name           | Description           | Document Size (in KB) |
|                     | 1    | Additional Documents | Otherdoc.pdf            | OTHER TENDER DOCS     | 3281.89               |
|                     | 2    | Additional Documents | BOQCumPriceSchedule.xls | boq                   | 40.50                 |

**Bid Openers List**

| S.No | Bid Opener Login Id   | Bid Opener Name | Certificate Name |
|------|-----------------------|-----------------|------------------|
| 1.   | isharawat@bhel.in     | ISHA RAWAT      | ISHA RAWAT       |
| 2.   | amitparihar@bhel.in   | Amit Parihar    | AMIT PARIHAR     |
| 3.   | rajeevsharma@bhel.in  | RAJEEV KUMAR    | RAJEEV KUMAR     |
| 4.   | sarvpreetkaur@bhel.in | SARVPREET KAUR  | SARVPREET KAUR   |

**GeMARPTS Details**

|                                                   |                              |
|---------------------------------------------------|------------------------------|
| <b>Reason for non availability of GeMARPTS ID</b> | Urgent nature of Procurement |
| <b>Remarks</b>                                    | Retneder Case                |
| <b>Document Name</b>                              | Gem.pdf                      |
| <b>Document Size (in KB)</b>                      | 85.98                        |

**Tender Properties**

|                                       |     |                                    |     |
|---------------------------------------|-----|------------------------------------|-----|
| <b>Auto Tendering Process allowed</b> | No  | <b>Show Technical bid status</b>   | Yes |
| <b>Show Finance bid status</b>        | Yes | <b>Show Bids Details</b>           | Yes |
| BoQ Comparative Chart model           | NIL | BoQ Compative chart decimal places | 2   |
| BoQ Comparative Chart Rank Type       | NIL | Form Based BoQ                     | No  |

**Tender Inviting Authority**

|                |                                       |
|----------------|---------------------------------------|
| <b>Name</b>    | KINGSHUK KUMAR DAS                    |
| <b>Address</b> | BHEL - PEM, SEC 16A, FILM CITY, NOIDA |

**Tender Creator Details**

|                    |              |
|--------------------|--------------|
| <b>Created By</b>  | RAEESUL AZAM |
| <b>Designation</b> | DY ENGINEER  |

|                     |                      |
|---------------------|----------------------|
| <b>Created Date</b> | 25-Jan-2022 05:42 PM |
|---------------------|----------------------|



PEM / PG-III, BHEL, Noida

**SPECIAL CONDITIONS OF CONTRACT (SCC) Rev-0****3 x 800 MW PVUNL PATRATU TPP PHASE-I (Job No. 434)**

These Conditions shall be read and construed along with General Conditions of Contract (GCC) rev.06 & GST related Corrigendum to GCC rev.06, to be enclosed along with the tender enquiry. In case of any conflict or inconsistency, the conditions given in SCC shall prevail over the GCC and its corrigendum.

| Sl No. | Title                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.     | Project Name                        | 3 x 800 MW PVUNL PATRATU TPP PHASE-I (EPC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2.     | Nature of project & Type of Bidding | Non-Mega & ICB (International Competitive Bidding )                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 3.     | Customer Order Ref No               | 01/PVUNL-CS-9585-001-2/NOA-FC dated 08.03.2018<br>01/PVUNL-CS-9585-001-2/NOA-SC dated 08.03.2018<br>01/PVUNL-CS-9585-001-2/NOA-TC dated 08.03.2018                                                                                                                                                                                                                                                                                                                                                                     |
| 4.     | BHEL's Customer                     | PATRATU VIDYUT UTPADAN NIGAM LIMITED (subsidiary of NTPC Limited in joint venture with JBVNL )                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 5.     | PVUNL GST No.                       | 20AAICP3718K1ZH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 6.     | Customer Consultants                | No consultant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 7.     | Consignee Address (Bill To)         | For supply package:<br>BHEL, Power Sector-Project Engineering Management,<br>Power Project Engineering Institute,<br>Plot No. 25, Sector-16A, Noida, Uttar Pradesh-201301.<br><b>GSTIN: 09AAACB4146P2ZC</b><br><br>For turnkey packages (where BHEL-PEM will issue only the LOA and Purchase Order shall be issued by BHEL-PSWR):<br>Construction Manager, BHEL site office,<br>Patratu Vidyut Utpadan Njigam Ltd ,<br>PO: PTPS , Patratu , Ramgarh, Jharkhand - 829119<br><b>BHEL PSWR GSTIN No.- 27AAACB4146P1ZF</b> |
| 8.     | Delivery Address (Ship To)          | Construction Manager, Bharat Heavy Electricals Limited,<br>Patratu Vidyut Utpadan Njigam Ltd,<br>PO: PTPS , Patratu , Ramgarh, Jharkhand - 829119                                                                                                                                                                                                                                                                                                                                                                      |
| 9.     | BHEL Site Office Address            | Construction Manager, Bharat Heavy Electricals Limited,<br>Patratu Vidyut Utpadan Njigam Ltd ,<br>PO: PTPS , Patratu , Ramgarh, Jharkhand - 829119                                                                                                                                                                                                                                                                                                                                                                     |
| 10.    | Location of Plant                   | Site is Located just outside the coal belt of South Karanpura in Ramgarh District of Jharkhand State. The nearest Railway Station is Patratu which is at a distance of about 4 km on Barkakhana-Barwadih Railway line.<br><br><b>District: Ramgarh (state- Jharkhand)</b><br><b>Next big cities to site: Ranchi</b><br><b>Nearest Railway Station: - Patratu</b><br><b>Nearest Airport: Ranchi (45 km by road from site)</b>                                                                                           |
| 11.    | Mode of Dispatch                    | Air, Road, Rail & Sea Transportation<br><br>For indigenous supplies: By Rail/Road on door delivery and freight pre-paid basis.<br>For imported supplies: On C&F basis. Transit Insurance will be in BHEL scope                                                                                                                                                                                                                                                                                                         |
| 12.    | Road Permit /E-waybill              | Road Permit / E-way bill, to be arranged by Supplier/ transporter/ BHEL (as per GOI mandate).                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 13.    | BHEL GSTIN Details                  | For supply packages: BHEL-PEM is registered in the State of Uttar Pradesh with GSTIN 09AAACB4146P2ZC                                                                                                                                                                                                                                                                                                                                                                                                                   |

*Grammar* 08/5/18

|     |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                         | <b>For Turnkey packages: BHEL PSWR GSTIN No.- 27AAACB4146P1ZF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 14. | Transit Insurance                       | <p>In BHEL Scope.</p> <p>For each dispatch, vendor shall inform the following to the Underwriter under intimation to BHEL-PEM and BHEL Site office:</p> <ul style="list-style-type: none"> <li>(i) Policy No.</li> <li>(ii) Consignee Name.</li> <li>(iii) Consignment Details (items with their weights and value (in INR).</li> <li>(iv) Project Name and P.O. No.</li> <li>(v) LR No. and date, Dispatch origin and destination details, Invoice No.</li> </ul> <p>Vendors to intimate the underwriters quoting the insurance Policy No. as mentioned in Purchase Order.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 15. | Dispatch intimation                     | <p>Yes in writing, Not less than 30 (Thirty) days prior to date of shipment and dispatch details to be sent to:</p> <p style="padding-left: 40px;">BHEL Site office (As mentioned in Sl. No. 9)<br/>BHEL PEM Noida (As mentioned in NIT)</p> <p>At the point of dispatch, vendor must furnish docs required as given below through Email / Fax</p> <ul style="list-style-type: none"> <li>i. Vendor's invoice</li> <li>ii. LR / RR / GR / Courier Receipt</li> <li>iii. Packing List/ Challan indicating the items dispatched (with their weights)</li> <li>iv. Insurance intimation letter informing the underwriters about the dispatches</li> <li>v. MDCC (of BHEL / NTPC) as applicable</li> <li>vi. Photograph of packing / boxes showing dispatch marking as per Sl. No. 26</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 16. | Document required for Vendor's payment. | <p><b>For materials originating from Indian territory</b></p> <p>For claiming the payment against dispatch, MRC &amp; Freight, documents as mentioned in GCC rev 06 &amp; its corrigendum shall be submitted by vendor to BHEL. Original money receipt must be submitted for Freight payment.</p> <p><b>Packing List</b> must comply to Clause No. 19.3 of <del>General Commercial Terms &amp; Conditions of</del> GCC rev.06. Description of items in packing list shall be as per PO such that proper correlation between PO &amp; packing list must be furnished.</p> <p>Soft copy of documents for claiming payment shall be submitted by vendor as advance copy.</p> <p><b>For materials originating from non-Indian Territory</b></p> <p>Three (3) original and Three (3) copies of clean bill of lading or One (1) clean original Airway Bill &amp; Three (3) copies, in case of air freight.</p> <p>One (1) original and Three (3) copies of signed Invoices</p> <p>One (1) original and Three (3) copies of Packing List (clearly showing number of packages, gross weight and net weight).</p> <p>Three (3) copies of certificate of country of origin.</p> <p>Copy of MDCC from BHEL / NTPC (as applicable)</p> <p>Three (3) copies of inspection certificate, if any, issued by the customer/his authorized representative.</p> <p>Three (3) of certificate from the vendor to the effect that drawings and catalogues for customs clearance purpose have been kept with the packages for shipment.</p> <p>Three (3) copies of certificate from the vendor to the effect that the contents in each case are not less than that entered in the invoices and guaranteed as new and as per the relevant technical specifications.</p> <p>Shipping Specification – One (1) copy.</p> <p>Quality Certificate – One (1) copy.</p> <p>Approved Test Certificates, if any. - Three (3) copies.</p> <p>Guarantee Certificate – One (1) Original + One (1) copy.</p> |


Gaurav  
08/5/18

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|-------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |                                                                          | Inspection Reports – One (1) Original + One (1) copy.<br>PVC Calculation and copy of all applicable indices, if PVC applicable. – Two (2) copies.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 17.   | Material Receipt Certificate (MRC)                                       | A) For supply packages- BHEL-PEM will arrange MRC from BHEL site<br>B) For Turnkey (Supply + Erection & Commissioning) – Original MRC duly signed by customer (PVUNL) & BHEL site is to be arranged by Vendor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 18.   | Buyer and Paying Authority                                               | For packages where PEM will issue the Purchase Order: <b>BHEL PEM</b> will be the paying authority. For packages where BHEL-PEM will issue only the LOA and Purchase Order shall be issued by BHEL-PSWR: <b>BHEL Patratu Site will be the paying Authority.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 19.   | Demurrage charges                                                        | Demurrage charges shall be paid by supplier/ vendor only to the transporter. No claim shall be acceptable to BHEL in this regard.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 20.   | Unloading, Storage & Movement of material at site                        | a) By BHEL site office for supply packages.<br>b) By vendors for Turnkey i.e. Supply and E&C packages                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 21.   | Concessional custom duty against Essentiality certificate (EC)           | <p>The project has been qualified through Project Import route. Accordingly, the benefits applicable to PI project would be granted for this project In this regard applicable documents such as Essentiality certificate will be issued by NTPC (ultimate customer). Under this, Concessional rate of Customs Duty shall be applicable on the Import Contents of the supplier respectively. Based on the above EC, Customs Duty Benefits will be passed on to the vendor. The Bidder to indicate the Import contents i.e. list of the item, Currency of Import and Country of Import including CIF value in their offers. BHEL shall inform, the availability of CIF value for a particular package, if any, at the time of NIT. The benefits availed in Concessional Customs Duty must be passed on to BHEL in their offer.</p> <p>Vendor shall inform BHEL and provide the necessary documents to obtain required certificates from BHEL to avail exemption. Obtaining custom duty benefit in line with the Essentiality Certificate issued shall be in vendor's scope.</p> |
| 22.   | Taxes & Duties (For Domestic Vendor)                                     | As per General Conditions of Contract (GCC rev 06) & GST related Corrigendum to GCC rev.06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 23. a | Taxes & Duties (For Order Directly to Foreign Bidders)- supply packages  | In case of foreign vendors, quoted prices & Dispatches shall be on C & F (Port-Chennai) basis and the Taxes & duties in the country of dispatch shall be borne by Foreign vendor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 23. b | Taxes & Duties (For Order Directly to Foreign Bidders)- Turnkey packages | Complete responsibility of import including (but not limited to) import clearance, all taxes and duties in the country of export (origin), all taxes and duties in India shall be to vendor's account.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 24.   | Inspection Agency                                                        | BHEL/ BHEL approved 3rd party inspection agencies and/or NTPC/ Customer Agency as applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 25.   | Inspection procedure for Domestic supplies                               | <p><u>For Domestic supplies</u><br/>Vendor shall raise inspection call at least 15 business days in advance on BHEL CQS website to applicable inspection agency (as mentioned in PO/LOI or to be informed later) and submit copy of inspection call to BHEL-PEM for arranging NTPC inspection/Joint inspection on the proposed date, as applicable. MDCC shall be issued on the basis of clear inspection report (CQIR).</p> <p><u>For Foreign supplies</u><br/>In case of Foreign supplies, if NTPC approved 3rd party inspection agency does not participate in the inspection, test certificates &amp; inspection reports duly accepted by the agreed Inspection agency shall be submitted in soft copy to BHEL-PEM. The same shall be reviewed by PEM and then, sent to NTPC for clearance. The dispatch clearance (MDCC) by NTPC/ BHEL as applicable shall be given to the foreign supplier or representative in India after acceptance of above test certificates.</p>                                                                                                   |

Gaurav  
08/5/18

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|-----|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 26. | Packing, Identification & marking (if not specified in NIT)                         | <p>Each box shall be marked with Capital Letters in "Red" indicating the <b>PEM SUPPLY (Main Supply/ Commissioning Spares/ Mandatory Spares)</b> for 3 x 800 MW PVUNL PATRATU TPP.</p> <p><b>NOTE:</b> Main supply item and items for commissioning spares must be packed separately.</p> <p>Each package delivered under the Contract shall be marked by supplier and such marking must be distinct and in English language (all previous irrelevant markings being carefully obliterated). Such marking shall show the description and quantity of contents, the name and address of consignee, the Gross weight and Net weight of the package, the name of the Supplier, PEM P.O. reference number, with a distinctive number of mark sufficient for purposes of identification. Besides above necessary, packing shall bear a special marking 'TOP', 'BOTTOM', 'DO NOT TURN OVER', "KEEP DRY", "HANDLE WITH CARE", etc</p> <p><b>IMPORTANT: -</b></p> <ul style="list-style-type: none"> <li>Two copies of respective standard manufacturer's erection instruction/operation instruction manual shall be kept in each package / container for immediate reference by BHEL site and same shall be reflected in packing slip also</li> <li>The Packing list details for the consignment must be put inside the Box/Boxes.</li> </ul> <p>Items like pumps, Valves, Hoists, Cranes etc shall essentially have O&amp;M Manuals and E&amp;C guidelines duly enclosed in the packing box. Certificate to such effect shall also be reflected in packing slip.</p> <p>Mandatory spares shall be properly packed separately in separate box painted in Red, indicating <b>Mandatory Spares in bold letters</b> and each spare shall be properly tagged giving details i.e. item number of the equipment in line with the CUSTOMER approved BBU for Mandatory spares &amp; Number per item (to match the description given in the packing slip) to facilitate their proper identification by PVUNL/ NTPC. One Copy of Packing list must be put inside the Box along with Manufacturing drawing no. reference, Catalogue reference etc.</p> |
| 27. | Submission of Final Drgs/Docs alongwith O&M Manual, Type Test Certificates (if any) | As per GCC rev.06/ Technical Specification/Kick-off meeting.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|             | Prepared by      | Checked by  | Reviewed by        | Vetted by | Approved by         |
|-------------|------------------|-------------|--------------------|-----------|---------------------|
| Name        | Gaurav Garg      |             | <del>Agudani</del> |           | <del>16/05/18</del> |
| Designation | Sr. Engr/ PG III | DGM/ PG III | DGM/ PG III        | Finance   | AGM & DH/ PG III    |
| Signature   | Gaurav 08/5/18   |             |                    |           | DEEPAK GUPTA        |

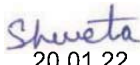
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|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|
|  | <b>3X800 MW PATRATU STPP</b><br><br><b>PRE-QUALIFICATION REQUIRMENTS FOR MS ROD</b> | PQR No .                           |
|                                                                                   |                                                                                     | PE-PQ-434-509-E001                 |
|                                                                                   |                                                                                     | REVISION NO. 0    DATE    20.01.22 |
|                                                                                   |                                                                                     | SHEET NO. 1 OF 1                   |

**SCOPE:** Supply : YES; Erection & Commissioning : NO;

|   |                                                                                                                                                                                                                                                                                  |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Vendor should have in-house manufacturing facility of MS rod / bar greater than 30mm dia (as per IS: 2062 Grade designation E250 quality A or as per ASTM A 510M Grade No. 1010 (SAE No.1010)/1018 (SAE No.1018)/1020 (SAE No.1020) or as per IS 1875 designation 15C8 class 1A. |
| 2 | Vendor should be a manufacturer of MS Rod / Bar. In case bidder is not the manufacturer, their offer shall be evaluated as per Note no.1 of PQR.                                                                                                                                 |
| 3 | Vendor should have capability of manufacturing MS Rod /Bar of about 500 MT per month.                                                                                                                                                                                            |
| 4 | Vendor should have in-house capability to carry out all applicable tests as per relevant standards.                                                                                                                                                                              |
| 5 | Manufactured & supplied at least 740 MT of MS rod in one or more orders and at least 100 MT in a single order.                                                                                                                                                                   |
| 6 | Minimum two (2) nos. purchase orders for MS rod be submitted which should not be more than five (5) years old from the date of techno-commercial bid opening for establishing continuity in business.                                                                            |

#### NOTES-

1. In case Bidder is authorised dealer / authorised Stockist, then credentials of MS Rod / bar manufacturer (OEM) can also be considered for meeting PQR points 1 to 5 except for PQR criteria at sl. No.6 for which bidder's credentials shall be evaluated. Bidder to furnish the authorisation letter from the OEM along with the scope matrix (supply, logistics, testing, inspection, etc) along with the offer. For scope matrix technical specification shall be referred to. Bidder to note arrangement of the bidding w.r.t.OEM, once offered to BHEL as part of bidding documents cannot be changed till the completion of execution of the project.
2. SAIL/RINL need not furnish documents in support of above PQR criteria.
3. Consideration of offer shall be subject to customer's approval of bidders, if applicable.
4. Bidder to submit all supporting documents in English. If documents submitted by bidder are in language other than English, a self-attested English translated document should also be submitted.
5. Notwithstanding anything stated above, BHEL reserves the right to assess the capabilities and capacity of the bidder to perform the contract, should the circumstances warrant such assessment in the overall interest of BHEL.
6. After satisfactory fulfilment of all the above criteria/ requirement, offer shall be considered for further evaluation as per NIT and all the other terms of the tender.

|                                                                                                                                                                                  |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PREPARED BY</b><br><br>20.01.22<br><b>NAME: SHWETA GABA</b><br><b>DESIGNATION: DY. MGR</b> | <b>CHECKED BY</b><br><b>HEMA KUSHWAHA</b><br><small>Digitally signed by HEMA KUSHWAHA<br/>DN: cn=HEMA KUSHWAHA, o=BHEL, ou=PEM, email=HEMA.KUSHWAHA@bhel.in, c=IN<br/>Date: 2022.01.20 16:58:45 +05'30'</small><br><b>NAME: HEMA KUSHWAHA</b><br><b>DESIGNATION: SR. MGR</b> | <b>REVIEWED BY</b><br><b>PRAVEEN DUTTA</b><br><small>Digitally signed by PRAVEEN DUTTA<br/>DN: cn=PRAVEEN DUTTA, o=BHEL, ou=PEM, email=PRAVEEN.DUTTA@bhel.in, c=IN<br/>Date: 2022.01.20 16:58:53 +05'30'</small><br><b>NAME: PRAVEEN DUTTA</b><br><b>DESIGNATION: AGM</b> | <b>APPROVED BY</b><br><b>Debasisa Rath</b><br><small>Digitally signed by Debasisa Rath<br/>DN: cn=Debasisa Rath, o=BHEL, ou=PEM, email=debasisa@bhel.in, c=IN<br/>Date: 2022.01.20 17:14:01 +05'30'</small><br><b>NAME: DEBASISA RATH</b><br><b>DESIGNATION: DH- ELECTRICAL</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

650946/2022/PS-PEM-EL

**3 X 800 MW PATRATU STPS EXPANSION PH-I****TECHNICAL SPECIFICATION  
FOR  
MS ROD FOR BELOW GROUND EARTHING**

SPECIFICATION NO. : PE-TS-434-509-E004  
REVISION : 01



BHARAT HEAVY ELECTRICALS LIMITED  
POWER SECTOR  
PROJECT ENGINEERING MANAGEMENT  
NOIDA – 201301

|                                                                                   |                                                                                                             |                                         |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------|
|  | TECHNICAL SPECIFICATION FOR<br>MS ROD FOR BELOW GROUND EARTHING<br><br>3X800 MW PATRATU STPS EXPANSION PH-I | SPECIFICATION NO.<br>PE-TS-434-509-E004 |
|                                                                                   |                                                                                                             | REV NO.: 01 DATE: 18.01.22              |
|                                                                                   |                                                                                                             | SHEET : 1 OF 4                          |

## STANDARD TECHNICAL REQUIREMENTS

|                                                                                   |                                                                         |                                                |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------|
|  | <b>TECHNICAL SPECIFICATION FOR<br/>MS ROD FOR BELOW GROUND EARTHING</b> | SPECIFICATION NO.<br>PE-TS-434-509-E004        |
|                                                                                   |                                                                         | REV NO. : 01 DATE : 18.01.22<br>SHEET : 2 OF 4 |

**3X800 MW PATRATU STPS EXPANSION PH-I**

## 1.0 INTENT OF THE SPECIFICATION

1.1 This specification covers the design, manufacture, inspection & testing, packing at manufacturer's works and delivery to site of **MS ROD FOR BELOW GROUND EARTHING**.

1.2 The intent of specification is not to specify all details of design & construction of material. The material shall, however, conform in all aspects to high standard of design, engineering and workmanship and be capable of performing in continuous operation upto & after bidder's guarantee period in manner acceptable to purchaser who will interpret the drawings & specification and shall have power to reject any work or material which in his judgement is not in full accordance with this specification.

## 2.0 CODES & STANDARDS

2.1 The material shall comply with all currently applicable safety codes and statutory regulations of India as well as of the locality where the material is to be installed.

2.2 Applicable Standards (Latest amendment to be referred): -

- a) **IS 2062, Grade designation E250 quality A:** Hot Rolled Low, Medium and High Tensile Structural Steel.
- b) **ASTM A 510M Grade No. 1010 (SAE No. 1010) /1018 (SAE No. 1018) /1020 (SAE No.1020):** Standard Specification for general requirements of wire rods and coarse round wire, carbon steel.
- c) **IS 1875, Designation 15C8 class 1A:** Carbon Steel Billets, Blooms, Slabs and bars for forging – Specification.

## 3.0 TECHNICAL REQUIREMENTS

- 3.1 Straight lengths of MS rods of standard diameter of **40 mm in minimum length of 9 m** shall be supplied.
- 3.2 All finished MS rods for Below Ground Earthing shall be free from sharp edges, corners, burs & unevenness.
- 3.3 Bidder to supply order quantity indicated in the Technical Specification. Overall tolerance on total dispatched quantity shall be restricted to  $\pm 3\%$  in line with IS 2062.

## 4.0 QUALITY / INSPECTION

4.1 The supplier shall perform all tests necessary to ensure that the material and workmanship conform to the relevant standards and comply with the requirements of this specification.

4.2 The tests shall be in accordance with relevant Indian/American standards. The extent of the tests to be performed by the supplier shall include but not be limited to the following: -

a) Routine Tests:

- (i) Tests for Chemical Composition
- (ii) Test for Mechanical Properties.

Necessary Test Certificates shall be submitted to BHEL for review before actual dispatch of material.

## 5.0 PACKING

The material shall be packed to ensure protection against damage during transit, storage for prolonged periods and handling.

650946/2022/PS-PEM-EL

|                                                                                   |                                                                         |                                         |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------|
|  | <b>TECHNICAL SPECIFICATION FOR<br/>MS ROD FOR BELOW GROUND EARTHING</b> | SPECIFICATION NO.<br>PE-TS-434-509-E004 |
|                                                                                   |                                                                         | REV NO. : 01    DATE :18.01.2022        |
|                                                                                   |                                                                         | SHEET : 3    OF 4                       |

## BOQ FOR BELOW GROUND EARTHING (MS ROD)

| S.NO. | ITEM DESCRIPTION | UNIT | ORDER<br>QUANTITY |
|-------|------------------|------|-------------------|
| 1)    | 40 mm Dia MS ROD | MT   | 820               |

|                                                                                   |                                                                                                                            |                                         |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
|  | <b>TECHNICAL SPECIFICATION FOR<br/>MS ROD FOR BELOW GROUND EARTHING</b><br><br><b>3X800 MW PATRATU STPS EXPANSION PH-I</b> | SPECIFICATION NO.<br>PE-TS-434-509-E004 |
|                                                                                   |                                                                                                                            | REV NO. : 01    DATE :18.01.22          |
|                                                                                   |                                                                                                                            | SHEET : 4    OF 4                       |

**SCOPE matrix for MS ROD**

| Sr.no | Activities         | Manufacturer                                                                                                                                          | Bidder/<br>Associate | Remarks                                                                                                         |
|-------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------|
| 1.    | Source of Supply   | Material is to be dispatched directly from the place of manufacturer (works / storage yard) of MS Rod to the project sites without any transshipment. | -----                | Consignors Name & address on dispatch documents shall be of manufacturer from where the material is dispatched. |
| 2.    | Testing/Inspection |                                                                                                                                                       |                      |                                                                                                                 |
| 3.    | Guarantee/Warranty |                                                                                                                                                       |                      |                                                                                                                 |
| 4.    | Transportation     |                                                                                                                                                       |                      |                                                                                                                 |

Bidder to furnish duly filled in signed & stamped copy of scope matrix for broad activities

ANNEXURE II- DEVIATION SHEET (COST OF WITHDRAWAL)- Unpriced

|                                                                                          |
|------------------------------------------------------------------------------------------|
| NAME OF PACKAGE: 3 x 800 MW PVUNL PATRATU TPP PHASE-I : MS ROD FOR BELOW GROUND EARTHING |
| Refer Enquiry No. PE/PG/PA1/E-6865/2021 dated 25.01.2022                                 |
| NAME OF BIDDER:                                                                          |

| SR.NO                | Volume/<br>Section | Page No. | Clause No. | Technical Specification/<br>TenderDocument | CompleteDescription of Deviation | Cost of Withdrawal of<br>Deviation | Reference of Price<br>Schedule on Which cost of<br>Withdrawal of deviation is<br>Applicable | Nature of Cost of<br>Withdrawal of deviation<br>(Positive/Negative) | Reason for QuotingDeviation |
|----------------------|--------------------|----------|------------|--------------------------------------------|----------------------------------|------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|
| TECHNICAL DEVIATION: |                    |          |            |                                            |                                  |                                    |                                                                                             |                                                                     |                             |
|                      |                    |          |            |                                            |                                  |                                    |                                                                                             |                                                                     |                             |
|                      |                    |          |            |                                            |                                  |                                    |                                                                                             |                                                                     |                             |
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|                      |                    |          |            |                                            |                                  |                                    |                                                                                             |                                                                     |                             |
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|                      |                    |          |            |                                            |                                  |                                    |                                                                                             |                                                                     |                             |
| COMMERCIAL DEVIATION |                    |          |            |                                            |                                  |                                    |                                                                                             |                                                                     |                             |
|                      |                    |          |            |                                            |                                  |                                    |                                                                                             |                                                                     |                             |
|                      |                    |          |            |                                            |                                  |                                    |                                                                                             |                                                                     |                             |
|                      |                    |          |            |                                            |                                  |                                    |                                                                                             |                                                                     |                             |
|                      |                    |          |            |                                            |                                  |                                    |                                                                                             |                                                                     |                             |
|                      |                    |          |            |                                            |                                  |                                    |                                                                                             |                                                                     |                             |
|                      |                    |          |            |                                            |                                  |                                    |                                                                                             |                                                                     |                             |
|                      |                    |          |            |                                            |                                  |                                    |                                                                                             |                                                                     |                             |
|                      |                    |          |            |                                            |                                  |                                    |                                                                                             |                                                                     |                             |
|                      |                    |          |            |                                            |                                  |                                    |                                                                                             |                                                                     |                             |
|                      |                    |          |            |                                            |                                  |                                    |                                                                                             |                                                                     |                             |

|                                                   |  |             |  |
|---------------------------------------------------|--|-------------|--|
| PARTICULARS OF BIDDERS/ AUTHORISED REPRESENTATIVE |  |             |  |
| NAME                                              |  | DESIGNATION |  |
| SIGN & DATE                                       |  |             |  |

NOTES: