

### Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	01-06-2024 17:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	01-06-2024 17:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	90 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Heavy Industries And Public Enterprises
Department Name/विभाग का नाम	Department Of Heavy Industry
Organisation Name/संगठन का नाम	Bharat Heavy Electricals Limited (bhel)
Office Name/कार्यालय का नाम	Psnr Noida
Total Quantity/कुल मात्रा	2
Item Category/मद केटेगरी	11 KU RING MAIN UNIT PANEL
MSE Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से एमएसई छूट	No
Startup Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से स्टार्टअप छूट	No
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Experience Criteria,Certificate (Requested in ATC),Compliance of BoQ specification and supporting document *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	Yes
RA Qualification Rule	H1-Highest Priced Bid Elimination
Type of Bid/बिड का प्रकार	Two Packet Bid
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	2 Days
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
Payment Timelines	Payments shall be made to the Seller within <b>90</b> days of issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills (This is in supersession of 10 days time as provided in clause 12 of GeM GTC)

Bid Details/बिड विवरण	
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation

#### EMD Detail/ईएमडी विवरण

Required/आवश्यकता	No
-------------------	----

#### ePBG Detail/ईपीबीजी विवरण

Required/आवश्यकता	No
-------------------	----

#### Splitting/विभाजन

Bid splitting not applied/बोली विभाजन लागू नहीं किया गया.

#### MII Purchase Preference/एमआईआई खरीद वरीयता

MII Purchase Preference/एमआईआई खरीद वरीयता	Yes
--	-----

#### MSE Purchase Preference/एमएसई खरीद वरीयता

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
---	-----

1. Preference to Make In India products (For bids < 200 Crore): Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate. The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023. [OM No.1\\_4\\_2021\\_PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

2. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the

offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 100%(selected by Buyer) percentage of total QUANTITY. The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023 [OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

3. Reverse Auction would be conducted amongst all the technically qualified bidders except the Highest quoting bidder. The technically qualified Highest Quoting bidder will not be allowed to participate in RA. However, H-1 will also be allowed to participate in RA in following cases:

- If number of technically qualified bidders are only 2 or 3.
- If Buyer has chosen to split the bid amongst N sellers, and H1 bid is coming within N.
- In case Primary product of only one OEM is left in contention for participation in RA on elimination of H-1.
- If L-1 is non-MSE and H-1 is eligible MSE and H-1 price is coming within price band of 15% of Non-MSE L-1
- If L-1 is non-MII and H-1 is eligible MII and H-1 price is coming within price band of 20% of Non-MII L-1

## 11 KU RING MAIN UNIT PANEL ( 2 pieces )

**(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)**

### Technical Specifications/तकनीकी विशिष्टियाँ

Buyer Specification Document/क्रेता विशिष्टि दस्तावेज़	<a href="#">Download</a>
--	--------------------------

### Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Hemant Kumar Sundi	231222,BHEL SITE OFFICE NTPC SHAKTINAGAR SINGRAULI	2	70

### Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें

#### 1. Generic

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

#### 2. Generic

Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any

responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.

### 3. **Generic**

Bidder shall submit the following documents along with their bid for Vendor Code Creation:

- a. Copy of PAN Card.
- b. Copy of GSTIN.
- c. Copy of Cancelled Cheque.
- d. Copy of EFT Mandate duly certified by Bank.

### 4. **Generic**

Supplier shall ensure that the Invoice is raised in the name of Consignee with GSTIN of Consignee only.

### 5. **Purchase Preference (Centre)**

Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for percentage of 100% of total value.

### 6. **Purchase Preference (Centre)**

Purchase Preference linked with Local Content (PP-LC) Policy:

The bid clause regarding "Preference to Make In India products" stands modified in this bid and shall be governed by the PPLC Policy No. FP-20013/2/2017-FP-PNG dated 17.11.2020 issued by MoP&NG as amended up to date. Accordingly, bidders with Local Content less than or equal to 20% will be treated as "Non Local Supplier". The prescribed LC shall be applicable on the date of Bid opening. Sanctions on the bidders for false / wrong declaration or not fulfilling the Local Content requirement shall be as per the PPLC policy. Further following additional provisions are added in the certification and verification of local content provision of the Preference to Make in India clause:

- i. In case of foreign bidder, certificate from the statutory auditor or cost auditor of their own office or subsidiary in India giving the percentage of local content is also acceptable. In case office or subsidiary in India does not exist or Indian office/subsidiary is not required to appoint statutory auditor or cost auditor, certificate from practicing cost accountant or practicing chartered accountant giving the percentage of local content is also acceptable.
- ii. Along with Each Invoice: The local content certificate (issued by statutory auditor on behalf of procuring company) shall be submitted along with each invoice raised. However, the % of local content may vary with each invoice while maintaining the overall % of local content for the total work/purchase of the pro-rata local content requirement. In case, it is not satisfied cumulatively in the invoices raised up to that stage, the supplier shall indicate how the local content requirement would be met in the subsequent stages.
- iii. The bidder shall submit an undertaking from the authorized signatory of bidder having the Power of Attorney along with the bid stating the bidder meets the mandatory minimum LC requirement and such undertaking shall become a part of the contract.

### 7. **Certificates**

Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the

Bid document, ATC and Corrigendum if any.

8. **Buyer Added Bid Specific ATC**

Buyer Added text based ATC clauses

**SUPPLY OF 02 Nos. 11kV Outdoor RMU**  
**AT**  
**2 X 800 MW SINGRAULI SUPER THERMAL POWER PROJECT ST**  
**AGE-III**  
**AT UTTAR PRADESH**

S. No.	DESCRIPTION
	<b>Contract specific details</b>
1	Project Information
2	Pre-Qualifying Requirement
3	Scope of Works
4	Time Schedule
5	Terms of Payment
6	Standards Applicable
7	Detailed Technical Specification
8	Price Basis

9	Taxes and Duties
10	MODE OF DISPATCH & ROAD PERMIT
11	DELIVERY PERIOD
12	TRANSIT INSURANCE
13	LD Clause
14	Breach of contract

## 1.0 PROJECT INFORMATION

### **PROJECT: 2 X 800 MW SINGRAULI SUPER THERMAL POWER PROJECT STAGE-III**

NTPC has awarded the work for 2x800 MW Singrauli STPP (Stage-III) on EPC basis. Singrauli Stage-I and Stage -II are in operation in Sonbhadra Distt of Uttar Pradesh.

#### **Project Information is as follows:**

Sl. No	Title	Description
1	Owner/Customer	NTPC Ltd.
2	Project Title	2x800MW SINGRAULI STPP (STAGE-III)
3	Project Site Location	Singrauli STPS is located in Sonbhadra district of Uttar Pradesh. The project is located at 118km towards South of District Head Quarters Robertsganj and is well connected by State Highway SH-5A.
4	Nearest Railway Station	The nearest railway station is Shaktinagar at 3Km. Other nearby Important Stations are Renukoot Junction about 60 Km, Mirzapur Station about 198 Km, Mughal Sarai Junction About 196 Km and Varanasi Cantt About 202 Km.
5	Nearest Town	The nearest major town is Robertsganj, which is approx. 118km from the project. Nearest major city is Renukoot, located at a distance of 60km to the project.

<b>6</b>	<b>Nearest Water Body</b>	Singrauli STPS, Stage-I and II are operating with once through cooling system with water drawn from Rihand reservoir. The source of water for SINGRAULI Stage-III (2 X 800 MW) units will be from hot water discharge channel of Stage-II of the project.
<b>7</b>	<b>Nearest Airport</b>	The nearest airport is Lal Bahadur Shastri International Airport, Varanasi at a distance of about 220km from project site.
<b>8</b>	<b>Nearest Highway</b>	Nearest National Highway NH-39 is at a distance of about 5km from the project.

**Note: - The bidder is advised to visit and examine the site of WORKS and its surroundings and obtain for himself on his own responsibility all information that may be necessary for preparing the bid and entering into the CONTRACT. All costs for and associated with site visits shall be borne by the bidder.**

## **2.0 PRE- QUALIFYING REQUIREMENT**

### **PQR for Supply of 11kV Outdoor RMU for 2X800MW NTPC Singrauli Project**

Bidder to satisfy following requirement:

Experience of supply of at least one number of 11KV VCB/RMU or higher rating VCB/ RMU in the last 7 (Seven) years from the date of bid submission

The Bidder should submit Purchase Order copies as a proof of supply/experience as per PQR which shall be verified from the end user.

Only techno commercially Qualified bidders shall be considered for further processing

## **3.0 SCOPE OF WORK**

- a. This specification covers design, engineering, manufacturing, testing, inspection before dispatch, packing, forwarding, transportation, insurance during transit, delivery to site/ stores for 02Nos. 11kV Outdoor RMU.
- b. The scope also includes the circuit breakers, current and potential transformers, supporting structures, operating mechanism, relays, 230 AC to DC Power Pack

for protection / relay supply, foundation bolts, all the accessories and auxiliary equipment mandatory spares and special tools for satisfactory installation and operation for VCBs.

- c. The scope also includes the circuit breakers, Isolators, current and potential transformers, supporting structures, operating mechanism, relays, 230 AC to DC Power Pack for protection / relay supply, foundation bolts, all the accessories and auxiliary equipment mandatory spares and special tools for satisfactory installation and operation for RMUs.

### **3.01 OPERATION AND CONTROLS**

The breaker shall normally be operated by remote operation. Provisions shall be made for local electrical operation and mechanical operation also. The following facilities shall be provided in the circuit breaker:

- a. LOCAL/ REMOTE selector switch. The selection of "local" operation shall inhibit the operation of the breaker from any remote source.
- b. ON/ NEUTRAL/ OFF controls switches or ON/ OFF push buttons. The push buttons shall be momentary contact type with rear terminal connections.
- c. MECHANICAL EMERGENCY TRIP DEVICE: Suitable for manual operation in the event of failure of electrical supplies. The device shall be accessible without opening any access doors and distinctly labeled. It shall be shrouded and protected against inadvertent operation.
- d. Means shall be provided for manual operation of these circuit breakers during failure of auxiliary power in addition to electrical operation.
- d. Means shall be provided to prevent the mechanism from responding to a close signal when the trip coil is energized or to reclosing from a sustained close signal either opening due to a trip signal or failure to hold in the closed position.

### **3.02 ENCLOSURE**

- a. The enclosure of the RMUs shall be provided in a sheet steel enclosure conforming to IS: 3427.
- b. The panel shall be free standing, dust, moisture, rodents and vermin proof suitable for outdoor installation. The panel shall have a high degree of protection (IP55) for outdoor installation with relevant standard.
- c. All door panels and removable covers shall be gasketed all round with neoprene bonded gasket. Ventilating louvers shall be provided to limit the temperature rise as provided in IS: 12729 and 3427.
- d. The entire equipment shall be enclosed inside this enclosure with only mechanical emergency trip device outside this enclosure.
- e. The housing shall be surface treated and painted in accordance with relevant standards.

### **3.03 PANEL WIRING AND ACCESSORIES**

- a. Each panel shall be supplied with complete internal wiring.
- b. Panel wiring shall be suitably bunched and clamped for neat appearance. The conductors used for wiring purpose shall be PVC insulated 1100 volt grade semi-flexible heat resistant, flame retardant and vermin proof electrolytic copper cable conforming to IS:1554. Each wire shall be continuous from end to end without any joint in between. All panel wiring shall be capable of withstanding a voltage



of 2kV AC 50Hz for one minute.

- c. The size of the conductors for panel wiring shall be not less than 2.5mm<sup>2</sup>.
- d. The wiring used as AC supply for illumination lamp and heater shall be differently colored from control wiring so as to distinguish them from each other. The colour of all earth wire shall be black.

### **3.04 TERMINAL BLOCKS**

Terminal blocks covered by moulded insulating materials with adequate electrical clearances shall be provided for terminating the panel wiring and outgoing connections. The termination shall be made by crimping lugs or bare conductor with insulating sleeves at ends. The arrangement can be horizontal or vertical as per standard practice adopted by the manufacturer. All terminals must be numbered and wire termination provided with numbered ferrules for identification. All numbering and marking including those in wiring diagram shall follow the guidelines provided in IS: 11353. All circuit breaker auxiliary contacts including spare contacts shall be wired to the terminal blocks. Twenty (20%) percent spare terminals shall be provided.

### **3.05 CIRCUIT DIAGRAM**

A durable copy of the circuit wiring diagram shall be affixed to the inner side of the door of the switchgear compartment. Labels shall be provided inside the compartment to describe the functions of the various items of equipment.

### **3.06 MOTOR**

The motor for spring charging shall be single phase 230 Volt AC motor. Continuous motor rating shall be at least ten percent above the maximum load demand of the driven equipment. It shall remain within its rated capacity at all operating points that will arise in service. It shall be protected by HRC cartridge fuses or MCCB. The motor shall comply with IS: 996.

### **3.07 INTERLOCKS**

All doors or shutters which give access to live parts shall be interlocked in such a way that these cannot be opened unless the circuit breaker is in the open position. Other interlocks shall be provided as deemed necessary for safety.

### **3.08 TEMPERATURE RISE**

The temperature rises and the maximum temperature of any part of the circuit breaker under continuous load condition and exposed in the direct rays of the sun shall not exceed the permissible limits as provided in Table V of IEC publication 694 or table 4 of IS: 12729. These limits shall not be exceeded when corrected for the difference between the ambient temperature at site and the ambient temperature specified in the standard.

### **3.09 AUXILIARY POWER**

Two separate auxiliary power shall be provided by BHEL for each equipment:

- **230V AC UPS Power:** To be utilized for auxiliary power of the equipment. Further conversion and storage is in the scope of the vendor.
- **230V AC Power:** To be utilized for Space heater.

### **3.10 CABLE ENTRY**

A removable gland plate shall be provided at the bottom of the cabinet for entry of Purchaser's control, auxiliary power & Power cables in the cabinet.

### **3.11 DRAWINGS TO BE SUBMITTED FOR APPROVAL**

- a. Foundation Drawings.
- b. SLD
- c. GA, GTP & Datasheet.
- d. Termination Block Details.
- e. Control Circuit Wiring Details.
- f. Auxiliary Power Circuit Details along with battery, charger, converter (if any).
- g. Manufacturing Quality Plan.

### **3.12 TESTS:**

- a. Selection of test sample shall be done as per relevant IS.
- b. The conductors shall be subjected to routine and acceptance test in accordance with the relevant IS with latest amendments if any.

### **3.13 REJECTION AND RE-TESTING:**

- a. As per relevant IS with latest amendment if any.
- b. BHEL also reserves the right to check length of the conductor at Store/ Site.
- c. The entire cost of testing for acceptance & routine tests and checking of length etc. shall be borne by the supplier.

### **3.14 INSPECTION:**

- a. The purchaser's representative shall be entitled to have access to the works and all places of manufacturer. The said representative shall have full facilities for unrestricted inspection of supplier's works, raw materials, manufacture of conductor and conducting necessary tests. The supplier shall keep the purchaser informed well in advance of the time of starting and process of manufacture of conductor in its various stages. The acceptance of any quantity of materials shall in no way relieve the supplier of his responsibility for meeting all requirements of the specification and shall not prevent subsequent rejection, if such materials are later found to be defective. The supplier shall give an 07 (seven) days' notice to BHEL for the readiness of material for inspection through BHEL online inspection system. The details shall be shared with the successful bidder.
- b. No material shall be dispatched from its point of manufacture before it has been

en satisfactorily inspected and tested, unless the inspection is waived off, by the purchaser in writing.

### **3.15 SUPERVISION SERVICES**

The Supplier will arrange for supervision during commissioning of RMUs. The supervision date will be intimated 1 week in advance by BHEL for commissioning of RMUs. Total supervision man-day for commissioning will be 01 day per equipment i.e. total 02 days.

### **3.16 PACKAGING AND FORWARDING**

The RMUs along with CTs, PTs, etc. as described in this scope should be packed as per relevant IS.

### **3.17 TRANSPORTATION**

The transportation and freight insurance from works of the bidder to the site mentioned is also in the scope of the supplier.

### **3.18 GUARANTEE/ WARRANTY**

The material shall be warranted for satisfactory operation for a period of 12 months from the date of commissioning or 18 months from the date of receipt at site whichever is earlier.

### **3.19 SPARES TO BE SUPPLIED ALONG WITH THE MAIN EQUIPMENT**

<b>SPARES FOR RMU</b>		
<b>S. No.</b>	<b>Description</b>	<b>Quantity</b>
1	Closing Coil	01 Nos.
2	Tripping Coil	01 Nos.
3	Power Pack	01 Nos.

## 4.0 TIME SCHEDULE

### 4.1 TIME SCHEDULE

The Bidder has to submit drawings, documents and readiness of equipment for approval as given below:

S. No.	Description of Activity	Completion by
01	Submission of Document: <ul style="list-style-type: none"><li>· Foundation Drawings.</li><li>· SLD.</li><li>· GA, GTP &amp; Datasheet.</li><li>· Termination Block Details.</li><li>· Control Circuit Wiring Details.</li><li>· Auxiliary Power Circuit Details along with battery, charger, converter (if any).</li><li>· Manufacturing Quality Plan for Approval.</li></ul>	Within one week from the date of Purchase order for approval.  The subsequent revisions after incorporating BHEL's observations and comments shall be submitted within one week of intimation by BHEL.
02	Readiness for Testing / Inspection call	06 Weeks from Date of Approved Drawing /Document.
03	Dispatch Clearances	After satisfactory inspection
04	Receipt of consignment	One week from Dispatch Clearance

**Total Period for supply at site shall be within 70 days from the Date of Purchase Order.**

4.2 If the seller/contractor fails to complete the dispatch/ delivery and other schedules within the time period stipulated in the order/contract, or within any extension of time granted by the purchaser, it shall be lawful for the purchaser to recover damages for the breach of order/ contract without prejudice to any other rights and/ or remedies provided for, in order/ contract and hereunder.

- 4.3 BHEL at its discretion may grant extension of time schedule in case the reasons are beyond the control of the contractor. Contractor shall provide every documentary evidence to prove to the satisfaction of BHEL that the reasons for delay are not in his control.
- 4.4 Definition of Work Completion: The work under the scope of the contractor will be deemed to have been completed in all respect, only when all the activities, supplies and obligations under the scope of this Tender Specification are completed satisfactorily and so certified by the BHEL site in charge. The decision of BHEL shall be final and binding on the contractor.

## **5.0 TERMS OF PAYMENT**

**The unit rate is further break up as below:**

- a) For supply:** 95% of order value on pro-rata basis.
- b) For supervision:** 05% of order value on pro-rata basis.

**For Supply:** 100% of supply value (excluding GST), on pro-rata basis (Per unit RMU Panel), shall be released within 45 days for MSE, 60 days for Medium and 90 Days for General Category bidders against receipt and acceptance of material at site and submission of following documents: -

- a) GST Complaint Invoice (1 Original + 2 copies).
- b) Inspection/ test Report duly signed by Supplier's and BHEL's representative.
- c) Warrantee Certificate for Supplies.
- d) Store Receipt Voucher issued by BHEL Site.

**For Supervision:** 100% on pro-rata basis (excluding GST), shall be released on successful completion of supervision of the Package substation against submission of following document: -

- a) Supervision completion report certified by BHEL site Engineer

### **For GST:**

Applicable GST shall be released upon compliance of following documents:

- a) Vendor declaring such Invoice in their GSTR-1
- b) Confirmation of payment of GST thereon by vendor by submitting acknowledgement/copy of GSTR-3

Aforesaid GST payment is subject to receipt of goods and tax invoice by BHEL thereof.

**Note:- Payment authority shall be Engineer I/c BHEL Singr**

**auli site.**

## **6.0 LIST OF STANDARDS APPLICABLE**

<b>S. No.</b>	<b>List of IS applicable</b>	<b>Description</b>
1	IS: 3427	AC Metal enclosed switchgear and controlgear for rated voltages above 1kV and up to and including 52kV.
2	IS: 12729	Common High-Voltage Switchgear and Controlgear Standards
3	IS: 1554	Specification for PVC insulated (Heavy Duty) Electrical Cables.
4	IS: 11353	Guide for uniform system of marking and identification of conductors and apparatus terminals.
5	IS: 996	Single phase AC Induction Motor for general purpose.
6	IEC: 694	Polyvinyl chloride insulated unsheathed and sheathed cables/ cords with rigid and flexible conductor for rated voltages up to and including 450/750V.
7	IS: 9920	High Voltage Switches.

**NOTE:** This list of standards applicable is indicative in nature and cannot be taken as a comprehensive list. All the other standards which are applicable as per the statutory rules and regulations are applicable to this scope.

## 7.0 TECHNICAL SPECIFICATION

### 6.1 TECHNICAL SPECIFICATION OF NON-EXTENSIBLE RING MAIN UNIT (01 BREAKER 11 kV AND 02 LBS 11kV)

TECHNICAL SPECIFICATION OF NON-EXTENSIBLE RING MAIN UNIT (01 BREAKER 11 kV AND 02 LBS 11kV)		
S. No.	Technical Parameters	Values
1	Standard	IS3427
2	Rated Voltage	12kV
3	11kV Vacuum Circuit Breaker	01 Nos.
4	11kV Load Break Switch (LBS)	02 Nos.
5	Mode of Operation	Motorized spring charging with means for manual operation during failure of power in addition to electrical operation.
6	No. of phases	3
7	Rated Frequency	50Hz
8	Power frequency withstand Voltage	28kV
9	Rated Short Circuit Current	21kA for 1sec
10	Degree of Protection	IP55 (Outdoor)
11	Rated Bus-bar Current	Minimum 800A

12	Bus-bar Material & Rating	Copper/ Aluminium (E91E) suitable for minimum 800A with PVC sleeve.
13	Maximum ambient temperature	50°C
14	Energy Meters (Trivector Meter)	As per Chhattisgarh State Power Distribution Company Ltd.
15	Indicating Instruments (Ammeter) with selector switch for individual phases	Analog Ammeter of suitable rating.
16	Indicating Instruments (Voltmeter) with selector switch for individual phases	Analog Voltmeter with feed from Three Phase Line PT. Separate Voltage Presence Indication for all breakers and isolators.
17	Current Transformers	Dual Core CT: Metering Core: a. Ratio: 350/5A b. Class: 0.2 c. Burden: 2.5VA Protection Core: a. Ratio: 350/5A b. Class: 5P20 c. Burden: 2.5VA
18	Potential Transformers	Shall be provided for Line Voltage (suitable for 11kV). The same shall be fed to Indicating Instruments and Energy Meter. The burden shall be calculated accordingly. Three phase, resin cast, dry type fixed type potential transformer.
19	Protection Required with breaker	4 Element (3 Phase + EF) Non Directional Over current IDMT via numerical relay.
20	Indicating Lamps	Yes
20a	Breaker: OFF/ON/Auto trip/Trip circuit healthy/spring charge indication lamps	As per Manufacturer standard in compliance with IS.
20b	R,Y,B Phase Indication lamps	As per Manufacturer standard in compliance with IS.



21	Pad Lock Arrangement	The doors of the RMU shall be provided with padlock arrangement.
22	Door interlock with breaker	Shall be provided.
23	Terminal Block	Provision of PRV Trip, PRV alarm, Buchholz Trip, Buchholz alarm, OTI alarm, OTI trip, WTI alarm, WTI trip, MOG alarm. 20% spare TBs.
24	Mechanical Emergency Trip Device	Suitable for manual operation in the event of failure of electrical supplies. The device shall be accessible without opening any access doors and distinctly labelled. It shall be shrouded and protected against inadvertent operation.
25	Annunciators & Hooters	Yes
26	Surge Arrestors	To be provided as per IE standards.
27	Space Heater & Thermostats	Yes
28	Power Pack	230V Single Phase UPS feeder is available from BHEL's end. Further conversion and storage for auxiliary supply of the RMU is in the scope of the vendor. The power pack should be capable for minimum 2 trippings even if input to power pack has failed.  Separate 230V AC feeder available from BHEL is to be utilized for space heater.
29	Illumination Lamps	One. (The Compartment illumination lamp with door-operated switch shall be provided.)
30	Incoming Cable	1Rx3Cx185sqmm Armoured Al Cable.
31	Outgoing Cables	1Rx3Cx185sqmm Armoured Al Cable.
32	Painting Process	7 tank powder coating, Min Thickness 60 Micron
33	Enclosure Material	Minimum 2mm thick.  Base sheet minimum 3mm thick.

34	Earthing Terminals	Earthing Terminals shall be brought out of the enclosure of the RMU for connection with the earth pits. (Earth Pits not in the scope of the vendor.)
----	--------------------	--

## 8 **PRICE BASIS::**

### **Item to be supplied FOR Destination to BHEL Singrauli site**

BHEL PSNR, Singrauli SITE,

2x800 MW NTPC Singrauli STPS,

P.O Shaktinagar,

Dist: Sonebhadra, UTTAR PRADESH- 231222.

GSTIN NO. : (09AAACB4146P2ZC)

## 9 **TAXES AND DUTIES:**

- 1.1 The contractor shall pay all (save the specific exclusions as enumerated in this clause) taxes, fees, license, charges, deposits, duties, tools, royalty, commissions, other charges, etc. which may be levied on the input goods & services consumed and output goods & services delivered in course of his operations in executing the contract. In case BHEL is forced to pay any of such taxes/duties, BHEL shall have the right to recover the same from his bills or otherwise as deemed fit.

However, provisions regarding GST on output supply (goods/service) and TDS/TCS as per Income Tax Act shall be as per following clauses.

### **1.2 GST (Goods and Services Tax)**

- 1.2.1 The contractor's price/rates shall be **inclusive** of GST. Reimbursement of GST is subject to compliance of following terms and conditions. BHEL shall have the right to deny payment of GST and to recover any loss to BHEL on account of tax, interest, penalty etc. for non-compliance of any of the following condition.
- 1.2.2 The admissibility of GST, taxes and duties referred in this chapter or elsewhere in the contract shall be limited to direct transactions between BHEL & its Contractor. BHEL shall not consider GST on any transaction other than the direct transaction between BHEL & its Contractor.
- 1.2.3 Contractor shall obtain prior written consent of BHEL before billing the amount towards such taxes. Where the GST laws permit more than one option or methodology for discharging the liability of tax/levy/duty, BHEL shall have the right to adopt the appropriate one considering the amount of tax liability on BHEL/Client as well as procedural simplicity with regard to assessment of the liability. The option chosen by BHEL shall be binding on the Contractor for discharging the obligation of BHEL in respect of the tax liability to the Contractor.
- 1.2.4 Contractor has to submit GST registration certificate of the concerned state. Contractor also needs to ensure that the submitted GST registration certificate should be in active status during the entire contract period.
- 1.2.5 Contractor/Vendor has to issue invoice indicating HSN/SAC code, Description,

Value, Rate, applicable tax and other particulars in compliance with the provisions of relevant GST Act and Rules made thereunder.

- 1.2.6 Vendor has to submit GST compliant invoice within seven days from the due date of invoice as per GST Law. In case of delay, BHEL reserves the right of denial of GST payment if there occurs any hardship to BHEL in claiming the input thereof. In case of goods, vendor has to provide scan copy of invoice & GR/LR/RR to BHEL before movement of goods starts. Special care should be taken in case of month end transactions.
- 1.2.7 Vendor has to ensure that invoice in respect of such services which have been provided/completed on or before end of the month should not bear the date later than last working day of the month in which services are performed.
- 1.2.8 Subject to other provisions of the contract, GST amount claimed in the invoice shall be released on fulfilment of all the following conditions by the Contractor :-
- Supply of goods and/or services have been received by BHEL.
  - Original Tax Invoice has been submitted to BHEL.
  - Contractor/ Vendor has submitted all the documents required for processing of bill as per contract/ purchase order/ work order.
  - In cases where e-invoicing provision is applicable, vendor/contractor is required to submit invoice in compliance with e-invoicing provisions of GST Act and Rules made thereunder.
  - Contractor has filed all the relevant GST return (e.g. GSTR-1, GSTR-3B, etc.) pertaining to the invoice submitted and submit the proof of such return along with immediate subsequent invoice. In case of final invoice/ bill, contractor has to submit proof of such return within fifteen days from the due date of relevant return.
  - Respective invoice has appeared in BHEL's GSTR - 2A for the month corresponding to the month of invoice. Alternatively, BG of appropriate value may be furnished which shall be valid at least one month beyond the due date of confirmation of relevant payment of GST on GSTN portal or sufficient security is available to adjust the financial impact in case of any default by the contractor.
  - Contractor has to submit an undertaking confirming the payment of all due GST in respect of invoices pertaining to BHEL.
- 1.2.9 Any financial loss arises to BHEL on account of failure or delay in submission of any document as per contract/purchase order/work order at the time of submission of Tax invoice to BHEL, shall be deducted from contractor's bill or otherwise as deemed fit.
- 1.2.10 TDS as applicable under GST law shall be deducted from contractor's bill.
- 1.2.11 Contractor shall comply with the provisions of e-way bill wherever applicable. Further wherever provisions of GST Act permits, all the e-way bills , road permits etc. required for transportation of goods needs to be arranged by the contractor.
- 1.2.12 Contractor shall be solely responsible for discharging his GST liability according to the provisions of GST Law and BHEL will not entertain any claim of GST/interest/penalty or any other liability on account of failure of contractor in complying the provisions of GST Law or discharging the GST liability in a manner laid down thereunder.
- 1.2.13 In case declaration of any invoice is delayed by the vendor in his GST return or any invoice is subsequently amended/alterd/deleted on GSTN portal which results in any adverse financial implication on BHEL, the financial impact thereof including interest/penalty shall be recovered from the Contractor's due payment.

1.2.14 Any denial of input credit to BHEL or arising of any tax liability on BHEL due to non-compliance of GST Law by the Contractor in any manner, will be recovered along with liability on account of interest and penalty (if any) from the payments due to the Contractor.

1.2.15 In the event of any ambiguity in GST law with respect to availability of input credit of GST charged on the invoice raised by the contractor or with respect to any other matter having impact on BHEL, BHEL's decision shall be final and binding on the contractor.

**1.2.16 Variation in Taxes & Duties:**

Any upward variation in GST shall be considered for reimbursement provided supply of goods and services are made within schedule date stipulated in the contract or approved extended schedule for the reason solely attributable to BHEL. However downward variation shall be subject to adjustment as per actual GST applicability.

In case, the Government imposes any new levy/tax on the output service/goods after price bid opening, the same shall be reimbursed by BHEL at actual. The reimbursement under this clause is restricted to the direct transaction between BHEL and its contractor only and within the contractual delivery period only.

In case, any new tax/levy/duty etc. becomes applicable after the date of Bidder's offer but before opening of the price Bid, the Bidder/Contractor must convey its impact on his price duly substantiated by documentary evidence in support of the same before opening of price bid. Claim for any such impact after opening the price bid will not be considered by BHEL for reimbursement of tax or reassessment of offer.

**1.3 Income Tax:**

**TDS/TCS** as applicable under Income Tax Act, 1961 or rules made thereunder shall be deducted/collected from contractor's bill.

**Note: - BHEL will avail 100% Input Tax Credit (ITC) on GST for this GEM bid.**

**10. MODE OF DISPATCH & ROAD PERMIT:**

Supplier's scope. E-way bill / road permit (if applicable) to be arranged by supplier.

**11. DELIVERY PERIOD:**

Delivery of all material shall be completed within 70 days from purchase order date.

**12. TRANSIT INSURANCE:**

Transit Insurance of material is in Vendor's scope.

**13. LIQUIDATED DAMAGE:**

**13.1** If the seller/contractor fails to complete the dispatch/ delivery and other schedules within the time period stipulated in the order/contract, or within any extension of time granted by the purchaser, it shall be lawful for the purchaser to recover damages for the breach of order/ contract without prejudice to any other rights and/ or remedies provided for, in order/ contract and hereunder.

**13.2** LD shall be applicable @ 0.5% of purchase order value per week of delay or part thereof of the total value of undelivered portion of the material supplied.

subject to a maximum of 10% of the total purchase order value.

**13.3** Definition of Work Completion: The work under the scope of the contractor will be deemed to have been completed in all respect, only when all the activities, supplies and obligations under the scope of this Tender Specification are completed satisfactorily and so certified by the BHEL site in charge. The decision of BHEL shall be final and binding on the contractor.

#### **14. BREACH OF CONTRACT, REMEDIES AND TERMINATION:**

In case of breach of contract, wherever the value of security instruments like performance bank guarantee available with BHEL against the said contract is 10 % of the contract value or more, such security instruments to the extent of 10 % contract value will be encashed.

In case the value of the security instruments available is less than 10% of the contract value, the balance amount will be recovered in all or any of the following manners:

- a. from dues available in the form of Bills payable to defaulted supplier against the same contract.
- b. from the dues payable to defaulted supplier against other contracts in the same Region/Unit /any other region/unit
- c. In-case recoveries are not possible with any of the above available options, Legal action shall be initiated for recovery against defaulted supplier.

Further, levy of liquidated damages, debarment, termination, de-scoping, short-closure, etc., will be applied as per provisions of the contract. In addition to action as per GEM incident management policy.

#### **Disclaimer/अस्वीकरण**

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.

8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for [attached categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

[This Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

**---Thank You/धन्यवाद---**