

Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	29-10-2024 18:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	29-10-2024 18:30:00
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	10210015-pser
Total Quantity/कुल मात्रा	2
Item Category/मद केटेगरी	Supply including supervision of 02 NOS. 11KV outdoor RMU
GeMARPTS में खोजी गई स्ट्रिंग / Searched Strings used in GeMARPTS	Supply including supervision of 02 NOS. 11KV outdoor RMU
GeMARPTS में खोजा गया परिणाम / Searched Result generated in GeMARPTS	Category not available on GeM for the text string uploaded by the buyer
अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / Relevant Categories selected for notification	<ul style="list-style-type: none"> Main Line Pumping Unit for Liquid Handling (IOCL)
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	Certificate (Requested in ATC),Additional Doc 1 (Requested in ATC),Additional Doc 2 (Requested in ATC),Additional Doc 3 (Requested in ATC),Additional Doc 4 (Requested in ATC) *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
Do you want to show documents uploaded by bidders to all bidders participated in bid?/	No
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	Yes

Bid Details/बिड विवरण	
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 45 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)
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation
Arbitration Clause	No
Mediation Clause	No

EMD Detail/ईएमडी विवरण

Advisory Bank/एडवाइजरी बैंक	State Bank of India
EMD Amount/ईएमडी राशि	40000

ePBG Detail/ईपीबीजी विवरण

Required/आवश्यकता	No
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(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy./जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित कैटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज प्रस्तुत करने हैं। एमएसई कैटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable./ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए।

Beneficiary/लाभार्थी :

BIDDER TO SUBMIT EMD ONLY AS DETAILED IN BUYER SPECIFIC ATC (ANNEXURE-A)
10210015-PSER, Department of Heavy Industry, Bharat Heavy Electricals Limited (BHEL), Ministry of Heavy Industries and Public Enterprises, BHEL-PSER (Bhel)

MII Purchase Preference/एमआईआई खरीद वरीयता

MII Purchase Preference/एमआईआई खरीद वरीयता	Yes
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MSE Purchase Preference/एमएसई खरीद वरीयता

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
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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 will be given to MSEs having valid Udyam Registration and whose credentials are validated online through Udyam Registration portal 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 themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. 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 and Buyer will decide eligibility for purchase preference based on documentary evidence submitted, while evaluating the bid. 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 MSE 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. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.

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

Supply Including Supervision Of 02 NOS. 11KV Outdoor RMU (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

[Download](#)

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	Manoj Kumar Prasad	825409,BHEL SITE OFFICE, 2 X 500 MW Koderma Power Project, Bnajhedih, P.O. Jhumri Telaiya, Dist. Koderma-825409 (Jharkand)	2	75

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

1. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

ANNEXURE-A

BUYER ADDED BID SPECIFIC ADDITIONAL TERMS AND CONDITIONS

Job: Supply including supervision of 02 NOS. 11KV outdoor RMU at 2x800MW DVC Koderma Power Station, Jharkhand

1.0 PRE-QUALIFYING CRITERIA

JOB	SUPPLY INCLUDING SUPERVISION OF 02 Nos. 11 KV OUTDOOR RING MAIN UNIT AT 2x800 MW DVC KODERMA POWER STATION, JHARKHAND
SL NO	CRITERIA
FINANCIAL	

1.0	<p>a) BIDDER SHOULD HAVE AVERAGE MINIMUM ANNUAL FINANCIAL TURNOVER OF RS. 3 LACS, DURING THE LAST THREE (3) FINANCIAL YEARS ENDING ON 31.03.23 AND SHOULD SUBMIT THEIR AUDITED BALANCE SHEET AND PROFIT & LOSS ACCOUNT FOR LAST THREE FINANCIAL YEARS, IN SUPPORT OF THE SAME.</p> <p>b) IN CASE AUDITED BALANCE SHEET AND PROFIT & LOSS ACCOUNT HAS NOT BEEN SUBMITTED FOR ALL 3 YEARS INDICATED ABOVE THEN THE APPLICABLE FINANCIAL AUDITED STATEMENTS SUBMITTED BY THE BIDDERS AGAINST THE REQUISITE THREE YEARS, WILL BE AVERAGED FOR THREE YEARS.</p> <p>c) IF FINANCIAL STATEMENTS ARE NOT REQUIRED TO BE AUDITED STATUTORILY, THEN INSTEAD OF AUDITED FINANCIAL STATEMENTS, FINANCIAL STATEMENTS ARE REQUIRED TO BE CERTIFIED BY CHARTERED ACCOUNTANT.</p>
TECHNICAL	
2.0	<p>THE BIDDER SHOULD HAVE PREVIOUS EXPERIENCE OF SUPPLYING 01 Nos. 11 KV OUTDOOR RING MAIN UNIT TO GOVT./ PSU/ REPUTED ORGANISATIONS IN LAST THREE YEARS AS ON LAST DATE OF BID SUBMISSION. BIDDER SHALL HAVE TO SUBMIT RELEVANT DOCUMENTS IN SUPPORT OF THE SAME.</p>

NOTE:

A	<p>BIDDER SHOULD HAVE VALID PAN.</p> <p>RELEVANT DOCUMENT IN SUPPORT OF ABOVE SHALL BE SUBMITTED</p>
B	<p>AFTER SATISFACTORY FULFILLMENT OF ALL THE ABOVE CRITERIA, OFFER SHALL BE CONSIDERED FOR FURTHER EVALUATION AS PER NIT AND ALL OTHER TERMS OF THE TENDER.</p>
C	<p>THE VENDOR SHOULD HAVE ACHIEVED THE CRITERIA SPECIFIED IN THE PRE-QUALIFICATION CRITERIA, EVEN IF THE CONTRACT HAS NOT BEEN COMPLETED OR CLOSED.</p>
D	<p>BIDDER SHALL SUBMIT ABOVE PRE-QUALIFICATION CRITERIA FORMAT, DULY FILLED-IN, SPECIFYING RESPECTIVE ANNEXURE NUMBER AGAINST EACH CRITERIA AND FURNISH RELEVANT DOCUMENT IN THE RESPECTIVE ANNEXURES IN THEIR OFFER.</p>
E	<p>BIDDER MUST NOT BE UNDER BANKRUPTCY CODE PROCEEDINGS (IBC) BY NCLT OR UNDER LIQUIDATION / BIFR, WHICH WILL RENDER HIM INELIGIBLE FOR PARTICIPATION IN THIS TENDER, AND SHALL SUBMIT UNDERTAKING TO THIS EFFECT.</p>

2.0 PROJECT INFORMATION

Sl. No.	Description	Details
1	Project Title	Koderma TPS PH-II (2x800MW)

2	Customer	Damodar Valley Corporation (DVC)
3	Location	Near Benjhidi Village of Koderma District in Jharkhand. The Site can be approached from District Head Quarters through National Highway NH-20 and thereafter the internal road of the town
4	Nearest Railway Station	Koderma within 2 Km
5	Nearest Airport	Gaya Airport, Gaya within 108 Km
6	Access By Road/Major Cities	The project site is approachable from National Highway NH-19 about 25 Km from the Site and also National Highway NH- 20 about 8 Km from the site
7	Address	Project Director, BHEL Site Office 2X800 MW DVC Koderma TPS PH-II PO- Koderma TPS, Village- Benjhidi Dist – Koderma, Jharkhand 825421

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.

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 and supervision during commissioning for 02Nos. 11kV Outdoor RMU.
- b. 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.

3.1 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).

3.2 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.

3.3 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.

3.4 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 satisfactorily inspected and tested, unless the inspection is waived off, by the purchaser in writing.
- c. Successful vendor has to submit Quality Assurance Plan (QAP) to BHEL for approval.
- d. Inspection shall be carried out by BHEL/TPIA.
- e. Delivery schedule also includes pre-dispatch inspection.
- f. Manufacturer to obtain Dispatch Clearance/MDCC (Material Dispatch Clearance Certificate) as applicable from BHEL before dispatch of material to site. No material shall be dispatched to site without dispatch clearance from BHEL.

3.5 PACKAGING AND FORWARDING

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

3.6 TRANSPORTATION

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

3.7 UNLOADING: Unloading and storage will be in BHEL's scope.

3.8 SUPERVISION SERVICES (Only during first time commissioning)

The Supplier will arrange for supervision during first commissioning of RMUs. The supplier must reach site within 7 days of written communications from BHEL for commissioning of RMUs. Total supervision man-day for commissioning will be 01 days per equipment i.e. total 02 days. The commissioning timeline may vary for the individual RMUs. This service to be provided within 6 months from the date of receipt of materials at site.

3.9 GUARANTEE/ WARRANTY

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

3.10 SPARES TO BE SUPPLIED ALONG WITH THE MAIN EQUIPMENT

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

4.0 TIME SCHEDULE

- 4.1 **For Supply:** Total Period for design, engineering, manufacturing, testing, inspection before dispatch, packing and supply at site shall be within 75 days from the date of Purchase Order. In case of any delay beyond mentioned period, LD will be applicable as per clause no 14.

- 4.2 **For Supervision:** The supplier must reach site within 7 days of written communications from

m BHEL. Total supervision man-day for commissioning will be 01 days per equipment i.e. total 02 days. In case of any delay beyond mentioned period, LD will be applicable as per clause no 14.

4.3 If the seller/contractor fails to complete the dispatch/ delivery and other schedules within t

he 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.

- 4.4 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.

- 4.5 Definition of Work Completion: The work under the scope of the contractor will be deemed t

o 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 quoted by the bidder shall be considered as per the break up below for payment purpose:

i. **For supply:** 95% of order value on shall be considered for supply portion.

ii. **For supervision:** 05% of order value shall be considered for supervision.

A) For Supply: 80% of supply value, on pro-rata basis, shall be released within 45 days against receipt and acceptance of material at site and submission of following documents:

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- ii. GST Complaint Invoice (1 Original + 2 copies).
- iii. Inspection/ test Report duly signed by Supplier's and BHEL's representative.
- iv. Guarantee Warrantee Certificate for Supplies.
- v. Store Receipt Voucher issued by BHEL Site.

B) For Supervision: Balance 20 % of supply value and 100% of supervision on pro-rata basis shall be released on successful completion of supervision of the RMUs against submission of following document: -

- i) E&C completion report certified by BHEL site Engineer
- ii) Submission of Performance Bank Guarantee (PBG) valid for 30 days beyond warranty period by supplier from any of consortium Banks of BHEL for 10 % of total PO value in prescribed format. The PBG confirmation charges to be borne by the bidder.

C) RELEASE OF PBG: Security Deposit shall be released after 30 days from successful completion of Guarantee/Warranty period, duly certified by BHEL engineer.

D) For GST: Applicable GST shall be released upon compliance of following documents:

- i. You declaring such Invoice in your IFF/GSTR-1; and the same should be available to BHEL in FORM GSTR-2B electronically through the common portal.
- ii. Receipt of Goods / services and Tax Invoice by BHEL.
- iii. Confirmation of payment of GST thereon by you on GSTN Portal; and confirmation of payment of such GST to the Government through filing of GSTR-3B of corresponding month/quarter.
- iv. Above is subject to receipt of goods / service and tax invoice thereof along with you declaring invoice in your return and paying GST within timeline prescribed for availing ITC by BHEL.

E) Paying Authority: Site (Finance), Koderma.

F) No Advance shall be paid

6.0 LIST OF STANDARDS APPLICABLE

S. No.	List of IS applicable	Description
1	IS: 3427	AC Metal enclosed switchgear and control gear for rated voltages above 1kV and up to and including 52kV.
2	IS: 12729	Common High-Voltage Switchgear and Control gear 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

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

TECHNICAL SPECIFICATION OF NON-EXTENSIBLE RING MAIN UNIT (01 BREAKER 11kV AND 02 LBS 11kV)		
S. No.	Technical Parameters	Values
1	Standard	IS3427
2	Rated Voltage	11 kV
3	11 kV 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	50 Hz
8	Power frequency withstand Voltage	28 kV
9	Rated Short Circuit Current	21 kA for 1sec
10	Degree of Protection	IP55 (Outdoor)
11	Rated Bus-bar Current	Minimum 800A
12	Bus-bar Material & Rating	Copper/ Aluminum (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 I DMT 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 Armored Al Cable.
31	Outgoing Cables	1Rx3Cx185sqmm Armored 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.)

7.2 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.
- e. 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.

7.3 ENCLOSURE

- a. The enclosure of 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.

7.4 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 2.5mm².
- 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 color of all earth wire shall be black.

7.5 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.

7.6 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.

7.7 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 MCB. The motor shall comply with IS: 996.

7.8 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.

7.9 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.

7.10 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.

7.11 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.

8.0 MODE OF DISPATCH & ROAD PERMIT:

Mode of dispatch: Road

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

9.0 TAXES AND DUTIES:

9.1 Bidder's quoted/ accepted rates/ price shall be inclusive of all taxes including GST, Charges, Royalties, any State or Central Levy and other taxes for materials if any obtained for the work and for execution of the contract.

Any increase of above at any stage during execution of contract, including extension of the contract, shall have to be borne by successful bidder contractor. However, any increase of GST subsequent to due date of offer submission as per NIT & TCN, by statutory authority during contract period (including extension, if the same is not attributable to you), shall be reimbursed by BHEL on production of relevant supporting document to the satisfaction of BHEL.

Benefit of any decrease of taxes including GST, Charges, Royalties, any State or Central Levy and other taxes for materials if any obtained for the work and for execution of the contract; subsequent to due date of offer submission as per NIT & TCN, by statutory authority shall be passed on to BHEL.

9.2 Successful bidder shall furnish proof of GST registration with GSTN Portal covering the services under this contract.

Registration should also bear endorsement for the premises from where the billing shall be done by successful bidder on BHEL for this project / work.

9.3 Since GST on output will be paid by BHEL as enumerated above, bidder's quoted rates / price should be after considering the Input Credit under GST law at bidder's end.

9.4 TDS under Income Tax Act shall be deducted as per prevailing IT rules from the bills.

9.5 TDS under GST shall be deducted as per prevailing GST rules from the bills.

9.6.1 You may collect TCS under section 206C(1H) of Income Tax Act, 1961 if applicable.

9.6.2 In case, you collect TCS under section 206C(1H) of Income Tax Act, 1961, following compliance is required.

9.6.2.1 TAN and PAN of vendor should appear in all invoices/claims. Copy of TAN /TCS registration is to be submitted.

9.6.2.2 Amount of TCS and Assessable value on which TCS has been calculated should be specified clearly in the invoice.

9.6.2.3 You shall be required to submit certificate of TCS in Form no. 27D within 15 days from the due date for furnishing the statement of tax collected at the source.

9.6.3 In case, you do not collect TCS under section 206C(1H) of Income Tax Act, 1961, following declaration is to be submitted along with each invoice: -

"I/We hereby declare that I/We are not required to collect TCS under section 206C(1H) of Income Tax Act, 1961, on this bill.

9.6.4 In event of failure to comply with the provisions of the Act, or proper certificate not issued, or if tax collected but not remitted to the Government, or for any other reason and thereby causing loss to BHEL, the same shall be recoverable from the vendor with applicable interest.

9.6.5 You shall comply with all statutory amendment/notifications in this respect.

9.7 Bidder shall note that GST Tax Invoice complying with GST Invoice Rules (Section 31 of GST Act & Rules referred thereunder) wherein the 'Bill To' details shall encompass following.

BHEL GSTN - 22AAACB4146P1ZP.

Name - BHARAT HEAVY ELECTRICALS LIMITED Address - Ref Consignee address.

Specific details of BHEL GSTN, Name and Address as stated above, have been specified elsewhere in the tender

9.8 Successful bidder to intimate immediately on the day of removal of goods (in case of any supply of goods) to BHEL along with all relevant details and send a scanned copy of Tax Invoice to BHEL through following communication mode for enabling BHEL to meet its GST related compliances.

Portal address and Email address - Shall be intimated later.

Specific details of above shall be intimated to successful bidder by BHEL at appropriate juncture.

9.9 In case of delay in submission of above-mentioned documents on the date of dispatch, BHEL may incur penalty/ interest for not adhering to Invoicing Rules under GST Law. The same will be liable to be recovered from successful bidder, in case such delay is not attributable to BHEL.

9.10 In case of raising any Supplementary Tax Invoice (Debit / Credit Note), successful bidder shall issue the same containing all the details as referred to in Section 34 read with Section 31 of GST Act & Rules referred there under.

9.11 Successful bidder shall comply with the Time Limit prescribed under the GST Law and rules thereof for raising of the Tax Invoice. If any supply of goods is applicable, successful bidder shall also ensure prompt delivery of goods after dispatch.

9.12 Bidder shall note that in case GST credit is delayed / denied to BHEL due to delayed / non-receipt of goods and / or Tax Invoice or expiry of the timeline prescribed in GST Law for availing such I

TC, or any other reasons, not attributable to BHEL, GST amount shall be recoverable from successful bidder along with interest levied/ leviable on BHEL, as the case may be.

9.13 Successful bidder shall upload the invoices raised on BHEL in IFF/GSTR-1 within the prescribed time as given in the GST Act, and the same should be available to BHEL in FORM GSTR-2B electronically through the common portal; and confirmation of payment of such GST to the Government through filing of GSTR-3B of corresponding month/quarter.

Bidder shall note that in case of delay in declaring such invoice in your return and GST credit available by BHEL is denied or reversed subsequently as per GST Law, GST amount paid by BHEL towards such ITC reversal as per GST law shall be recoverable from the successful bidder along with interest levied / leviable on BHEL.

9.14 Successful bidder to arrange for e-waybill for any movement of goods for the execution of the contract. Successful bidder has to make their own arrangement at their cost for completing the formalities, if required, with Issuing Authorities, for bringing materials, plants & machinery at site for execution of the works under this contract, Road Permit / Way Bill, if required, shall be arranged by successful bidder and BHEL will not supply any Road Permit/ Way Bill for this purpose.

9.15 Any new taxes & duties, if imposed subsequent to due date of offer submission as per NIT & TCN, by statutory authority during contract period (including extension, if the same is not attributable to you), shall be reimbursed by BHEL on production of relevant supporting document to the satisfaction of BHEL. However, you shall obtain prior approval from BHEL before depositing new taxes and duties.

9.16 Benefits and / or abolition of all existing taxes must be passed on to BHEL against new taxes, if any, proposed to be introduced at a later date.

10. EVALUATION CRITERIA: All Inclusive Total F.O.R Destination Price “(Total Basic Price for supply + Freight + transit Insurance+ Supervision Charges) including GST.

11.DOCUMENTS REQUIRED ALONG WITH DISPATCH OF MATERIAL (Billing Documents):

The following documents are required with dispatch:

1. Original Tax Invoice.
2. Copy of LR.
3. Test Certificate.

12. CONSIGNEE DETAILS:

Project Director, BHEL Site Office
2X800 MW DVC Koderma TPS PH-II
PO- Koderma TPS, Village- Benjhidi
Dist - Koderma, Jharkhand 825421

13. INPUT DETAILS FOR INVOICE: Will be intimate later

14.0 Liquidated Damages/Penalty:

Subject to force majeure, If vendor fails to complete the job as per aforesaid supply period, BHEL shall have the right to recover as penalty as below.

a) Penalty on delay in ‘supply’ and/or supervision will be applicable to the delays attributed to vendor. Penalty will be considered separately for ‘Supply’ & supervision:

- i) The rate of penalty for delayed Supply shall be @0.5% per week of delay of total PO value (Supply + supervision) in supply subject to a maximum of 10% of total PO value (Supply + supervision).
- ii) The rate of penalty for delayed supervision shall be @0.5% per week of delay of total PO value (Supply + supervision) in supervision subject to maximum of 10% of total PO value (Supply + supervision).
- iii) Maximum penalty for delay in Supply & supervision together shall be limited to 15% of total PO value (Supply supervision).

For purpose of penalty for delay in Supervision, the duration will be reckoned from the date of intimation by BHEL to vendor for readiness of site/equipment.

In case of LD recovery, the applicable GST, if any, shall also be recovered from vendor.

15.0 PVC, ORC &Rate revision: Not applicable.

16.0 Quantity Variation: Not applicable

17.0 EARNEST MONEY DEPOSIT (EMD) - INR 40,000.00 (Indian Rupees Forty thousand Only) in, shall be submitted by bidder as mentioned below, failing which the bidder's offer is liable for rejection

SCAN COPY OF DOCUMENTS IN SUPPORT OF SUBMISSION OF EMD TO BE UPLOADED ALONG WITH TECHNO-COMMERCIAL OFFER IN GeM PORTAL/PLATFORM.

EMD SUBMISSION THROUGH PAY ORDER / DEMAND DRAFT, SAME TO BE SUBMITTED IN SEALED ENVELOPE (SUPERSCRIBING TENDER REFERENCE) TO

SDGM-PURCHASE/ MANAGER-PURCHASE, BHEL BHAWAN, DJ-9/1, SECTOR-2, KARUNAMOYEE, SALT LAKE CITY, KOLKATA-700091, WEST BENGAL PRIOR TO LATEST DUE DATE OF SUBMISSION OF OFFER.

18.0 ORDER OF PRECEDENCE:

In case of contradiction / conflict, the order of precedence shall be in the order as per below;

- a) Buyer specific ADDITIONAL TERMS AND CONDITIONS against GeM Bid issued
- b) GeM Bid.
- c) General Terms and Conditions on GeM.

2. 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.

3. Certificates

Material Test Certificate Should Be Sent Along with The Supply. The Material Will Be Checked by Buyer's Lab & the Results of the Lab will be the Sole Criteria for Acceptance of the Item.

4. Generic

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

5. Generic

Without prejudice to Buyer's right to price adjustment by way of discount or any other right or remedy available to Buyer, Buyer may terminate the Contract or any part thereof by a written notice to the Seller, if:

- i) The Seller fails to comply with any material term of the Contract.
- ii) The Seller informs Buyer of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise becomes apparent.
- iii) The Seller fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period and/or to replace/rectify any rejected or defective Material(s) promptly.
- iv) The Seller becomes bankrupt or goes into liquidation.
- v) The Seller makes a general assignment for the benefit of creditors.
- vi) A receiver is appointed for any substantial property owned by the Seller.
- vii) The Seller has misrepresented to Buyer, acting on which misrepresentation Buyer has placed the Purchase Order on the Seller.

6. Generic

Actual delivery (and Installation & Commissioning (if covered in scope of supply)) is to be done at following address

Project Director, BHEL Site Office
2X800 MW DVC Koderma TPS PH-II
PO- Koderma TPS, Village- Benjhidi
Dist - Koderma,
Jharkhand 825421

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 कार्यवाई का आधार होगा।

---Thank You/धन्यवाद---