



Ref: Tender No. B/4180/4/1729B1

Date: 29.11.2025

OPEN TENDER No. B/4180/4/1729V1

1. Sealed tender with the Tender No. and opening date clearly super scribed on the cover are invited for the supply of the following items.

S. N.	Tender No.	Item Description	Total Requirements	Project Name	Opening date
1.	B/4180/2024/1729	W90318118157 ONLINE BLADE VIBRATION MONITORING SYSTEM (FOR 800 MW STPP) COMPRISING SENSORS, DATA ACQUISITION UNIT, MONITOR, SOFTWARE, ALL TYPES OF SPECIAL CABLES, HARDWARE FOR NETWORK, ACCESSORIES AS PER SPEC ST51027. SPEC: ST51027	2 Set	SINGRAULI U-1&2	20.12.2025
2.		W99318118031 DRG: 418050G9001 REV:00 MANDATORY SPARES (800MW STPP) AS PER DRG 418150G9001 AND SPEC ST51027 SPEC: ST51027 REV: 00	1 Set		
3.		W90318118149 SUPERVISION FOR INSTALLATION AND COMMISSIONING OF BVMS SYSTEM INCLUDING CALIBRATION SERVICES AS PER SPEC ST51027 SPEC: ST51027 REV: 00	2 No		

Note :-For other technical requirement, please refer clause no. 5 of Additional terms and conditions (Annexure-C) of tender documents.

Tenders will be received up to **13:45 Hrs. (IST)** on opening date and opened on the same day at **14:00 Hrs. (IST)** in the Tender Room.

All interested vendors must submit their offers along with the proof of submission of following Earnest Money Deposit (EMD) details.

Details	Amount In INR	Type
EMD	INR 6,00,000/- (Six lakhs only) or equivalent foreign currency	Refundable

Exemption of EMD: Offers directly from the manufacturer or their authorized agents are also exempted from submission of EMD.

2.1: Modes of deposit: The EMD may be accepted only in the following forms:

- (i) Electronic Fund Transfer credited in BHEL account (before tender opening).
- (ii) Banker's cheque/ Pay order/ Demand draft, in favour of BHEL (along with offer).
- (iii) Fixed Deposit Receipt (FDR).
- (iv) Bank Guarantee from any of the Scheduled Banks.
- (v) Insurance Surety Bonds.
- (vi) The EMD shall remain valid for a period of 45 (Forty-Five) days beyond the final bid validity period as asked



in NIT.

For E-Payment of EMD , the RTGS details are as mentioned below:

Bank Details	SWIFT Details of bank	Contact Details of Banker
STATE BANK OF INDIA RANIPUR BRANCH, OPP: BHEL MAIN GATE, SECTOR-5, RANIPUR, HARIDWAR, UTTRAKHAND, INDIA PIN CODE: 249403	SWIFT NO : SBININBB225 CC ACCOUNT NO : 10667995458 IFSC CODE : SBIN0000586	Contact No. +91 1334 224201 +91 1334 226125 Fax: +91 1334 226512

2.2: Forfeiture of EMD:

- a. A bidder's EMD will be forfeited if the bidder withdraws or amends its/his tender or impairs or derogates from the tender in any respect within the period of validity of the tender or if the successful bidder fails to furnish the required performance security within the specified period mentioned in the Tender.
- b. EMD by the tenderer to be withheld in case any action on the bidder is envisaged under the provisions of extant "Guidelines on Suspension of business dealings with suppliers/ contractors" and forfeited/ released based on the action as determined under these guidelines.
- c. Bid securities of the unsuccessful bidders shall be returned to them after expiry of the final bid validity period / latest by the 30th day after the award of the contract. Since it is a two-part bidding, bid securities of unsuccessful bidders during first stage i.e. technical evaluation shall be returned within 30 days of declaration of result of first stage i.e. technical evaluation.
- d. Bid security/EMD of the successful bidder shall be returned only on conclusion of the order and receipt of a Performance Security/Performance Bank Guarantee of 05% of contract value (excluding taxes) from contractor / Supplier.
- e. EMD/PBG/PS shall not carry any interest.

3. PERFORMANCE SECURITY/PERFORMANCE BANK GUARANTEE:

Successful bidder to submit Performance Security/Performance Bank Guarantee of 05% of the contract Value (Excluding Taxes). The Performance Security/PBG shall be submitted within 30 days of notification of the award of Contract and it should remain valid for a period of **60 (sixty) days** beyond the date of completion of all contractual obligations of the supplier, including warranty obligations.

PS/PBG shall be returned to the contractor without interest, after the contractor duly performs and completes the contract in all respects but not later than 60 (sixty) days of completion of all such obligations including the warranty under the contract. The Performance Security/PBG shall not carry any interest.

3.1 Modes of deposit of PS/ PBG:

Performance Security/Performance Bank Guarantee shall be furnished in the following forms:

- I. Local cheques of Scheduled Banks (subject to realization)/ Pay Order/Demand Draft/ Electronic Fund Transfer in favour of BHEL.
- II. Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL.
- III. Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL).
- IV. Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL).
- V. Insurance Surety Bond.



(Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith)

3.2: Forfeiture of Performance Security/Performance Bank Guarantee:

The Performance Security/ Performance Bank Guarantee will be forfeited and credited to BHEL's account in the event of a breach of contract by the supplier.

4. No interest shall be payable on EMD, Security Deposit or amount payable to the contractor under the contract.
5. BHEL will not be responsible for any type of postal delay / incomplete information from vendor.
6. Other terms and conditions will be as per tender documents.
7. The offer of the vendors who are banned/ De-Listed/ Under Hold by BHEL, shall not be considered till the period of their Ban/ De-list/ Hold.
8. Please ensure that documents submitted with the offer/bid shall be signed and stamped in each page by authorized representative of the bidder.
9. "For this procurement, the local content to categorize a supplier as a Class-I supplier / class-II local supplier / Non local supplier and purchase preference to class –I local supplier, is as defined in public procurement (preference to make in India), Order 2017 dated 04.06.2020 issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT".

The local supplier at the time of tender, bidding or solicitation shall be required to provide self-certification (Format enclosed) that the item offered meets the minimum local content and shall give details of the location (s) at which the local value addition is made

9. a) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.

SI	IEM	Email
1.	Dr. Sarat Kumar Acharya, Ex-CMD, NLC	iem1@bhel.in
2.	Shri R. Mukundan, IRPS (Retd.)	iem2@bhel.in
3.	Shri Madan Lal Meena, IAS (Retd.)	iem3@bhel.in

The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/ three-part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.

Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with the IEMs shall be done through email only.

Note: No routine correspondence shall be addressed to the IEM (phone/post/email) regarding the clarifications, time extensions or any other administrative queries etc. on the tender issued. All such Clarifications/Issues shall be addressed directly to the tender issuing (procurement) department's officials whose details are mentioned below:



BHARAT HEAVY ELECTRICALS LIMITED
HEEP, HARIDWAR-249403 (Uttarakhand)
Fax: 01334-226084/226462, Phone: 285834/281685
E-mail: manojy@bhel.in ; naveen.kumar@bhel.in; pkatheria@bhel.in

- a) Ms. Priyanka Katheria / Manager (PPX-BOI)
Email: pkatheria@bhel.in
Ph: +91 1334 281685
- b) Mr. Naveen Kumar /Sr. Manager (PPX-BOI)
Email: naveen.kumar@bhel.in
Ph: +91 1334 281685
Address: 4th Floor, Main Administrative Building,
HEEP, BHEL, Haridwar- 249403, Uttarakhand, India

For any further details please log on to www.bhel.com or www.hwr.bhel.com

Naveen Kumar
Sr. Manager (PPX-BOI)



BHEL Enquiry No.: B/4180/4/1729V1

Date of issue : 29.11.2025
Due Date/ opening date: 20.12.2025

M/s.....

Sub: Tender Enquiry No. : **B/4180/4/1729V1**

Dear Sir,

BHEL is pleased to invite your offer in **TWO PARTS** strictly as per enclosed terms and conditions and instruction to bidders, in sealed covers for the under mentioned materials.

S. N.	Tender No.	Item Description	Total Requirements	Project Name	Opening date
1.	B/4180/2024/1729	W90318118157 ONLINE BLADE VIBRATION MONITORING SYSTEM (FOR 800 MW STPP) COMPRISING SENSORS, DATA ACQUISITION UNIT, MONITOR, SOFTWARE, ALL TYPES OF SPECIAL CABLES, HARDWARE FOR NETWORK, ACCESSORIES AS PER SPEC ST51027. SPEC: ST51027	2 Set	SINGRAULI U-1&2	20.12.2025
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Please submit your lowest quotation / offer for the above requirement subject to our terms and conditions. Your offer should be reached to us on or before the due date by 13:45 Hrs. (IST).

NOTE: The vendor should submit their best prices at this stage itself and they will not be allowed to revise their prices. Any revision / discount given by vendor subsequently will be ignored.

"Any clarification on technical specifications/tender documents can be obtained from BHEL before tender opening. Suppliers are welcome to have pre-bid meeting with BHEL for better understanding of requirements".

Part-I i.e. PQR and technical offer shall be opened at 14:00 Hrs. (IST) on the due date in the presence of authorized representatives of the bidders who may like to be present. The authorized representative should bring enquiry specific authority letter from their principals for attending the bid opening.

As per government guidelines, MSE suppliers are exempted for submission of EMD.

"MSE Suppliers can avail the intended benefits only if they submit along with the offer valid Udyam Registration Certificate". Based on above clause, the credentials of all MSE Suppliers will be reviewed for giving the intended benefits for MSE suppliers at the time of tender evaluations.



“Evaluation of tender would be done Taking together all material codes from single source on total landed cost to BHEL up to project site basis”.

Please also refer clause no. 6 “Evaluation Criterion” of Annexure-C, for terms and conditions regarding evaluation of Order Quantity.

The Offers of those vendors, which would not meet our PQR requirements, would be rejected by BHEL.

Kindly Read “Instructions to bidders” **thoroughly**. Quotation not in accordance with the above instructions are liable to be disqualified and ignored.

If after tender opening, it is found that: -

- **The bidder has not submitted the requisite EMD.**
- **In case, a bidder does not submit EMD and claiming as a MSE vendor but no supporting document regarding MSE is submitted with offer.**

In both the above cases, the offer of the bidder is likely to be ignored. However, BHEL may give opportunity to such bidders to submit EMD in time bound manner.

1. Tender specific additional terms & Conditions and GISTC latest version is attached herewith. Please confirm each clause and submit duly ink signed and stamped additional terms & conditions and GISTC along with your valuable offer.
2. You may download all original documents from website www.bhel.com or www.hwr.bhel.com by date of tender opening till **10:00 AM; IST**.
3. Please submit your complete offer by 20.12.2025 (**01:45 PM; IST**) to our tender cell. Please note that late offer will not be considered.
4. Offers against our enquiry will be opened on 20.12.2025 (**02:00 PM; IST**).

Address for Submission of Offer:

To,
The Head of Materials Management,
Heavy Electrical Equipment plant,
Haridwar-249403, Uttrakhand, India

Please submit your complete offer on given address within due date & time mentioned above and as per other details given in original tender documents.

For & ON BEHALF OF BHEL, HARDWAR

Naveen Kumar
Sr. Manager (PPX-BOI)



INSTRUCTION TO BIDDERS

Clause 1.0:

The tenders shall be submitted in two parts (**Part I** consisting of Techno-Commercial Bid, quality plan, replica of price bid & pre-qualification requirements and **Part II** Original Price Bid) as described below on or before the due date.

- **The Quotation should be from the Principal / Original Manufacturer, even if it is submitted through their authorized agents, failing which the quotation is likely to be ignored.**
- **Any corrections / amendments shall be properly & fully authenticated with signature.**

BHEL will deal directly with the manufacturer and no correspondence with the agents will be entertained. The agents will not be permitted to visit / interact with BHEL on behalf of their principals. Subsequently also, no correspondence of any type will be made with any agents (all individuals / companies – representative / adviser / retainer ship basis or claimed to be part time employees for many OEMs / claiming to be channel or business partner for BHEL work / stockiest not registered specifically etc. are agents). Communications with only those agents who have submitted agency agreement with their respective principal may be done.

The bidders (originals manufacturers) will have to submit ink-signed offer / bid in original directly to BHEL. In case the bid is submitted by fax / email, the bidders shall simultaneously ensure submission of ink-signed original bid to BHEL also in the manner prescribed in this tender.

The suppliers or their authorized person may be allowed to attend the tender opening, duly authorized by their principals, through an enquiry specific authorization letter on that particular day. General authorization letter is not acceptable.

Clause 1.1:

PART-I (TECHNO-COMMERCIAL BID) shall comprise of following documents:

- a) EMD
- b) Pre-Qualification Requirements (**as defined in Annexure-A**)
- c) Complete Technical offer with relevant drawings/ datasheets/other documents /QAP etc. (**as Per Special Instructions mentioned in Annexure-B**).
- d) Catalogue of the Equipment (If applicable)
- e) Duly Filled in “Additional Terms & Conditions and GISTC of the Two Parts Tender” (**as per Annexure-C**).
- f) Mandatory spare list (**as per Annexure-E**).
- g) Deviation if any with reference to specification to be laid down on separate sheet. Cost of deviation is to be submitted along with the price bid essentially, in case vendor withdraws the deviation clauses then same will be considered for final evaluation.
- h) Replica of Price Bid/ Price sheet (without Prices).

Please ensure that documents submitted with the offer/bid shall be signed and stamped in each page by authorized representative of the bidder.

Clause 1.2: PART-II (PRICE BID)

The price Bid (with prices) for the complete scope as specified above shall be submitted.

- a) **Foreign supplier:** Dispatching Port & Country of dispatch is to be mentioned clearly. The Prices are to be quoted on CFR /FCA Mumbai basis. The offer of the bidder not quoting CFR (Mumbai)/FCA is likely to be rejected. In case BHEL decides to



**BHARAT HEAVY ELECTRICALS LIMITED
HEEP, HARIDWAR-249403 (Uttarakhand)**

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accept FOB quotation, Charges will be loaded by the maximum shipment charges, packing & forwarding charges quoted by any other bidder from the same or nearby port, against the enquiry/freight rate available with BHEL.

b) Indigenous suppliers: The Prices are to be quoted on Ex-Works with freight pre-paid up to destination basis. The goods can be dispatched through any Bank Approved Transporter having their branch at Haridwar. The names and addresses of transporters approved by IBA as well as BHEL are hosted on our website <https://hwr.bhel.com/>. The offer of the bidder not quoting on Freight Pre-paid up to destination basis will be loaded by maximum freight, packing & forwarding charges quoted by any other vendor from the same or nearby station, against the enquiry / freight rate available with BHEL.

c) Transit Insurance shall be taken care of by BHEL. Please quote accordingly.

d) Applicable GST, IGST and any other statutory levy should be indicated separately and clearly in the quotation, else it will be concluded that the offer is inclusive of all taxes & duties.

e) The price comparison will be on the basis of total landed cost to BHEL involved for delivery up to final project site. Import offers shall be loaded for applicable custom duties for the project & freight element/ other charges involved for delivery up to Project Site as per BHEL's transport contract.

f) The Part-II (Price Bid) along with supplementary price bid (if called for by BHEL) will be opened at a later date of only those bidders whose **Part-I bid (i.e. PQR and Techno-commercial bid)** is found suitable by BHEL. **BHEL reserves the right to evaluate vendor's process capability / quality systems etc. by visiting vendor works (if required).**

Clause 1.3:

The following shall be super-scribed on the envelopes:

1. PART-I (a): Documents required in Pre-Qualification Requirements (as defined in Annexure-A) shall be submitted in this part.

Superscription on envelope:

1. TENDER NO. AND ITEM DESCRIPTION.
2. DUE DATE OF OPENING.
3. "PRE-QUALIFICATION REQUIREMENTS"

2. PART-I (b):

The following shall be submitted in this part:

- Complete Technical offer with relevant drawings/ documents /QP (As defined in Annexure B).
- Catalogue (if required).
- Deviation sheet (if there is any deviation with respect to our specification).
- Replica of price bid/ Price sheet (without mentioning the actual prices).
- Filled Terms and conditions of two parts tender (foreign or indigenous, whichever applicable, as defined in Annexure C).
- Duly filled, ink signed and stamped Integrity Pact (As per Annexure-1)
- Endorsed copy of mandatory spare list (as per Annexure-E).

Superscription on envelope:

1. TENDER NO. AND ITEM DESCRIPTION.
2. DUE DATE OF OPENING.
3. "TECHNO-COMMERCIAL BID"

3. PART-I (c): EMD shall be submitted in this part

Superscription on envelope:

1. TENDER NO. AND ITEM DESCRIPTION.
2. DUE DATE OF OPENING.
3. "EMD"



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4. PART-II: price bid & cost of deviation (if any) shall be submitted in this part

Superscription on envelope:

1. TENDER NO. AND ITEM DESCRIPTION.
2. DUE DATE OF OPENING.
3. "PRICE BID"

Clause 1.4:

The Part-I (1 (a), 1 (b) & 1(c) & Part-II bids shall be individually sealed and super scribed as indicated above and shall be enclosed further in the envelope duly sealed and super scribed as:

"TENDER FOR (ITEM NAME) AGAINST TENDER NO. ----- DUE ON ----- CONTAINING PART-I & PART-II. Vendor's full name and address should be clearly mentioned on the envelope.

Clause 1.5:

Envelopes not marked as above are liable to be ignored and will not be opened.

Clause No. 1.6: As per directives of CENTRAL VIGILANCE COMMISSION, GOVERNMENT OF INDIA, one agent cannot represent two or more suppliers or quote on their behalf in a particular tender. If so found at any stage, BHEL Hardwar is likely to cancel Enquiries / POs to such suppliers. Further, such Indian Agent is likely to be de-listed (Black listed for business from BHEL)

Thanking You,
Yours faithfully,

For & on behalf of BHEL, Hardwar.

Naveen Kumar
Sr. Manager (PPX-BOI)



Annexure-A

		BHARAT HEAVY ELECTRICALS LIMITED, HARIDWAR CONTROL & INSTRUMENTATION ENGG (CIE)	2x800 MW SINGRAULI	
		PRE-QUALIFICATION REQUIREMENT DOC NO. CIE/BVMS/PQR/ 20241729	Dt: 12.08.2024 R00	
SL. NO.	PARAMETER	DETAILS	REQUIRED DOCUMENTATION/ CONFIRMATION	BIDDER RESPONSE
1a)	ITEM NAME	BLADE VIBRATION MONITORING SYSTEM (BVMS)		
1b)	ITEM DESCRIPTION/ APPLICATION	BVMS system is used in Turbine for continuous monitoring of blade vibrations, clearance and blade deflection in real time.		
1c)	ITEM MAT. CODE	W90318118157,W99318118031,W90318118149		
1d)	Technical Features	1) The On-line integrated system shall consists of suitable number of Non-contact eddy current/inductive/magnetic sensors, including hardware, software for monitoring blade vibrations for last stage (both Turbine end & Generator end) of low pressure turbines. 2) Installation and commissioning of system.		
2a)	Bidder Criteria	Bidder shall be manufacturer or authorized supplier of OEM. Letter of authorization or suitable documents shall be submitted for the same.	REQUIRED	
2b)	Bidder Experience	1) Bidder/sub-vendor should have designed, engineered, supplied, installed and commissioned at least one (1) number of Integrated On-line Blade Vibration system for health monitoring/Crack Detection of free standing blades of Low Pressure Turbine of Steam Turbine Generator set of 200 MW or above capacity. This integrated system* should have been in successful operation at each installation for at least 7000 operating hours prior to the date of technocommercial bid opening (22.12.2023). The Bidder should offer and supply the integrated system* of same Make and type for which it/its sub-vendor meets the above requirement. OR 2) The Bidder/sub-vendor should have designed, engineered, supplied, installed and commissioned at least one (1) number of On-line Blade Vibration integrated system* for health monitoring/Crack Detection of free standing blades of Compressor/Turbine of Gas Turbine Generator set** of 200 MW or above capacity. This integrated system* should have been in successful operation for at least 7000 operating hours prior to the date of technocommercial bid opening (22.12.2023). The Bidder should offer and supply the integrated system* of same Make and type for which it/its sub-vendor meets the above requirement. Note: * integrated system means complete system combining both hardware and software and sensors mounted inside turbine casing directly seeing the blades in non-contact manner. ** In case of combined cycle gas stations, Gas Turbine Generator set capacity means capacity exclusively of Gas Turbine Generator set.	Documents required	
3	ADDITIONAL REQUIREMENTS	BVMS proveness- Attachment 3k format (to be filled by BVMS vendors for seeking NTPC approval)	REQUIRED	
3c)	OTHER REFERENCES	Bidder to furnish their complete reference / experience list for our review	REQUIRED	
4	CONFIRMATION / DECLARATION	BHEL reserve the right to verify the information submitted by Bidder. In case the information is found to be false / incorrect, the offer shall be rejected. Bidder to confirm.	Confirmation required	
	Prepared By <i>Amjani Kumar</i>	Reviewed By <i>Neeraj Kumar</i>	Approved By <i>Saswati Srivastava</i>	
	Manager/CIE	SDGM/CIE	AGM/CIE	



BHARAT HEAVY ELECTRICALS LIMITED
HEEP, HARIDWAR-249403 (Uttarakhand)
Fax: 01334-226084/226462, Phone: 285834/281685
E-mail: manojy@bhel.in ; naveen.kumar@bhel.in; pkatheria@bhel.in

SPECIAL INSTRUCTIONS

A) GENERAL REQUIREMENTS

a) For Singrauli U-1&2 project:

1. The offer shall be submitted in-line with tender documents, Specification No. **ST51027 Rev.00 & DRG NO 418150G9001 Rev.00**
2. Duly filled and ink signed, stamped "**Additional Terms and Conditions & GISTC Rev. 10 of the Two Parts Tender**" are to be necessarily submitted along with the offer.

Naveen Kumar
Sr. Manager (PPX-BOI)



Blade Vibration Monitoring System – Mandatory Spares

Drawing No.: 418150G9001 REV 00 Date: 12.08.2024

Sl. No.	Description of Items	Units of Item	Quantity
1	Sensors	No.	20% of full set or minimum 2, whichever is more
2	Brackets, Fixtures	No.	20% of full set or minimum 2, whichever is more
3	Internal cabling	Length, M	20% of full set or minimum 1 run of each type, corresponding to maximum length used in the system
4	External cabling	Length, M	20% of full set or minimum 1 run of each type, corresponding to maximum length used in the system
5	Special conduits / vacuum pass through	Length, M	20% of full set or minimum 1 run of each type, corresponding to maximum length used in the system
6	Input card	No.	10% of full set or 1 number, whichever is more
7	Output card	No.	10% of full set or 1 number, whichever is more

Notes

1. **Full set** means total quantity corresponding to L-0 stage (Turbine and Generator end) for all the units. There are **two LP turbines per unit**.
2. If calculated spare quantity results in a fraction, **round up to the next higher integer**.