



BHARAT HEAVY ELECTRICALS LIMITED
(A Government of India Undertaking)
Haridwar – 249403

Expression of Interest (EoI) from Suitable Contractors
for
Carrying Out Machining Operations of Heavy Electrical
Equipment Plant Components at BHEL HEEP Haridwar

EoI Ref No.: BHEL/EOI/TURBINE/NCT/MACHINING/2025 Rev 00

Date: 13-11-2025

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SECTION-1
DISCLAIMER

The information contained in this Expression of Interest (EOI) document provided to the Applicant(s), by or on behalf of Bharat Heavy Electricals Limited (BHEL) or any of its employees or advisors, on the terms and conditions set out in this EOI document and all other terms and conditions subject to which such information is provided.

1. The purpose of this EOI document is to provide the Applicant with information to assist the formulation of their proposal. This EOI document does not purport to contain all the information each Applicant may require. This EOI document may not be appropriate for all persons, and it is not possible for BHEL, its employees or advisors to consider the business/investment objectives, financial situation and particular needs of each Applicant who reads or uses this EOI document. Each Applicant should conduct his own investigations and analysis and should check the accuracy, reliability and completeness of the information in this EOI document and where necessary obtain independent advice from appropriate sources.
2. BHEL, its employees and advisors make no representation or warranty and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of the EOI document.
3. BHEL may, in its absolute discretion, but without being under any obligation to do so, modify, amend or supplement the information in this EOI document.
4. The issue of this EOI does not imply that BHEL is bound to select and shortlist any or all the Applicant(s). Even after selection of suitable Applicant, BHEL is not bound to proceed ahead with the Applicant and in no case be responsible or liable for any commercial and consequential liabilities in any manner whatsoever.
5. The Applicant shall bear all costs associated with the preparation, business/technical discussions/presentation and submission of response against this EOI. BHEL shall in no case be responsible or liable for these costs regardless of the conduct or outcome of the EOI process.
6. Canvassing in any form by the Applicant or by any other Contractors on their behalf shall lead to disqualification of their EOI.
7. Notwithstanding anything contained in this EOI, BHEL reserves the right to accept or reject any application and to annul the EOI process and reject all applications, at any time without any liability or any obligation for such acceptance, rejection or annulment and without assigning any reasons, thereof. In the event that BHEL rejects or annuls all the applications, it may at its discretion, invite all eligible Applicants to submit fresh applications.
8. BHEL reserves the right to disqualify any applicant during or after completion of EOI process, if it is found there was a material misrepresentation by any such applicant or the applicant fails to provide within the specified time, supplemental information sought by BHEL.
9. BHEL reserves the right to verify all statements, information and documents submitted by the applicant in response to the EOI. Any such verification or lack of such verification by BHEL shall not relieve the applicant of his obligations or liabilities hereunder nor will it affect any rights of BHEL.

SECTION-2

SCHEDULE OF EoI PROCESS & CONTACT DETAILS

A. SCHEDULE OF EoI PROCESS

The schedule of activities during the EoI Process shall be as follows -

S No.	Description	Date
1	Issue of EoI document	14-11-2025
2	Last date of submission of EoI	13-12-2025

In case any amendment/corrigendum to this EoI is issued, it shall be notified only at www.bhel.com

B. CONTACT DETAILS:

The Contractors shall submit/send their offer against the expression of Interest with all annexures duly signed at the following addresses:

Manager (PPX)
Supplier Development Cell Main ADM Building
Heavy Electrical Equipment Plant,
Bharat Heavy Electricals Limited (BHEL),
Ranipur, Haridwar 249403
Tel: +91-1334- 255265
Mobile: +91 9654499498
E-Mail: gyanprakash@bhel.in

All the correspondences reg. any Scope/ Technical Clarification shall be addressed to the following official.

Sr. Manager (NC Technology)
NC Technology ADM-2
Heavy Electrical Equipment Plant,
Bharat Heavy Electricals Limited (BHEL),
Ranipur, Haridwar 249403
Tel: +91-1334- 281237
Mobile: +91 9759274700
E-Mail: rohitpratap.singh@bhel.in

SECTION – 3

DETAILS OF EXPRESSION OF INTEREST (EoI)

3.1 INTRODUCTION:

BHEL, HEEP, Haridwar, a Public Sector Undertaking, under the Government of India, seeks Expression of Interest from suitable parties/ Contractors who are meeting the requirements of this EoI and are willing to be associated with BHEL for carrying out machining operations of heavy power equipment components at BHEL HEEP Haridwar.

Henceforth the term “Contractors” shall mean any suitable suppliers/ parties / Contractors /agencies etc. who are eligible and willing to participate in this EOI as per the laid down terms and conditions in this EOI.

3.2 ABOUT BHEL & HEEP:

Bharat Heavy Electricals Limited (BHEL) (www.bhel.com) having its registered office at “BHEL House, Siri Fort, New Delhi – 110049 (India)”, is a Government of India Undertaking, Established in 1964. BHEL is an integrated power plant equipment manufacturer and one of the largest Engineering and Manufacturing Company of its kind in India. The company is engaged in the Design, Engineering, Manufacturing, Construction, Testing, Commissioning and servicing of a wide range of products and services for core sectors of the economy, viz. Power, Transmission, Industry, Transportation (Railways), Renewable Energy, Oil & Gas, Water and Defence with over 180 products offerings to meet the needs of these sectors. BHEL has been the bedrock of India's Heavy Electrical Equipment industry.

BHEL has a widespread network of 17 Manufacturing Divisions, 2 Repair Units, 4 Regional Offices, 8 Service Centres, 6 Overseas Offices, 6 Joint Ventures, 15 Regional Marketing Centres and current project execution at more than 150 project sites across India and abroad corroborates the humungous scale and size of its operations.

Adding to its achievements, BHEL has joined the elite club of select global giants having an installed base of over 170 GW of power generating equipment globally. BHEL also has a widespread overseas footprint in 78 countries with cumulative overseas installed capacity of BHEL manufactured power plants nearing 10,000 MW.

BHEL has technology tie-ups with leading companies in the world including General Electric Vernova, Siemens AG and Mitsubishi Heavy Industries Ltd., supported by technology developments in its own R&D centres. The quality & reliability of BHEL products at par with other Global players and adheres to international standards.

BHEL HEEP, Haridwar Unit BHEL Heavy Electrical Equipment Plant (HEEP), Haridwar is one of the Major Manufacturing Units of BHEL and caters the largest number of products under a single roof. Presently HEEP caters to a wide spectrum of business and higher rated equipment in Power, Gas & defence Sector like Steam Turbine, Gas Turbines, Nuclear Turbines, Generators, Heat Exchangers, etc.

3.3 Objective of EOI:

The objective of this EOI is to identify interested, experienced and technically competent Contractors who are willing to associate with BHEL for carrying out machining operation at BHEL HEEP, factory premises

located at Ranipur, Haridwar-249403, under the following model for a contract period of maximum 8-10 years:

- i. Contractors shall arrange the machines, as listed in Annexure-1, ensure their pre-inspection and approval by BHEL and bring them into BHEL Factory premises.
- ii. Contractors shall undertake installation, accuracy testing, proving, commissioning, operation and maintenance of these machines using their own manpower and resources. BHEL will provide necessary infrastructure like shop-floor space, crane / lifting equipment, etc. as detailed in Annexure-2.
- iii. BHEL will pay the Contractor on an hourly rate basis corresponding to the actual machine running Hours subject to the adherence to agreed performance and uptime parameters.

Responses to this EoI shall be submitted in accordance with the terms defined herein and as may be modified, amended, or clarified by BHEL from time to time.

Upon receipt of responses, BHEL will study the proposals to assess the Contractor's suitability and identify the Contractors for further discussions. BHEL typically will require approximately 6750 hrs of machining per annum per machine considering the three shifts operations.

3.4 Process of EOI:

- i. Prospective Contractors who are meeting the Pre-Qualification Requirement (PQR) as per "section 3.5" shall submit their proposal for EOI for machining of components at BHEL Ranipur, Haridwar.
Note: It will be preferred that Contractors apply for EOI against all the machines listed in Annexure 1. However, Contractors may also choose to apply for any of the machines listed in Annexure 1.
- ii. Contractors shall furnish all the dully filled in formats/ information/ documents/ credentials etc as sought in Annexure 3.
- iii. All the documents shall be submitted in English language only.
- iv. BHEL shall engage with the Contractor(s) who are fulfilling PQR, for further discussions, presentations etc. on their proposals.
- v. Subsequent to Identification, whenever required, BHEL shall float a formal tender as per BHEL's policies and formal order will be placed accordingly.
- vi. This Expression of Interest (EOI) itself is not an agreement and is not an offer or invitation to enter into an agreement/ tie-up/MOU of any kind with any party by BHEL.

3.5 Prequalification Requirements (PQRs):

Only those contractors should apply against this EoI who satisfy the following criteria's:

- i. Must be a registered legal entity under laws of India.
- ii. Must be having previous experience of at least three years in operation of any of the machines of similar or higher specifications as mentioned in Annexure 1.
- iii. Must be having positive net worth in past three years.
- iv. Must comply with applicable ISO standards.
- v. Must not be blacklisted by any Central/State Government or PSU.
- vi. Must be compliant with all applicable statutory laws and regulations, including those pertaining to labour, taxation, safety, and environmental protection.

Contractor shall submit supporting documents for criteria i to iv to prove their eligibility. For criteria v to vii contractors shall provide the self-attested declarations confirming the compliance.

3.6 Instructions

- i. Interested agencies shall submit their duly filled complete response/ proposal along with covering letter and all supporting documents/ information as per Annexure-3 in soft copies addressed to Email IDs indicated in the contact details (Section-2: B) on or before due date of Submission.
- ii. The response to EoI shall also be accompanied with details on company background, technical features/ product catalogue, reference list of customers, details of current manufacturing facilities and relevant certificates, annual audited financial reports for last three (3) years.
- iii. All correspondences and documents related to the EoI response shall be in English only.
- iv. The Contractors shall abide by the terms & conditions, as applicable, of the EoI.
- v. All pages of the response against this EoI shall be duly signed & stamped by the authorised signatory.
- vi. BHEL/TPIA (Third party inspection Contractors) appointed by BHEL may at its discretion inspect the Contractor's works/office/reference site premises, as deemed necessary. BHEL's decision in this regard shall be final.
- vii. Any Contractor which has been debarred/blacklisted by Indian Central/State Governments or by any entity controlled by Indian Central/State Governments from participating in any of their project, as on date of submission of EoI, shall not be eligible to submit the EoI.
- viii. BHEL shall receive applications pursuant to this EoI in accordance with the terms set forth herein, as modified, altered, amended and clarified from time to time by BHEL, and all applications shall be submitted in accordance with such terms on or before the date specified in this EoI for submission of applications. In case any amendment/corrigendum to this EoI is issued, it shall be notified only at www.bhel.com.
- ix. This Expression of Interest (EOI) is not an agreement and is not an offer or invitation to enter into an agreement/ tie-up/MOU of any kind with any party by BHEL.

3.7 Confidentiality:

- i. Information relating to the examination, clarification, evaluation and comparison of EoI and recommendations shall not be disclosed to Contractors. Any effort by Contractors to influence BHEL in processing of EoI may result in rejection of the response against EoI.
- ii. Discussions, deliberations and any information shared by BHEL to the applicants of EoI shall not be disclosed by applicants to any of the third party under any circumstances. Appropriate NDA (Non-Disclosure Agreement) shall also be sought from applicants as deemed by BHEL during the process of EoI.

3.8 Governing Laws & Jurisdiction:

In respect of all matters arising out of or pertaining to the EoI, the cause of action there of shall be deemed to have arisen only at Ranipur Haridwar, where BHEL – HEPP is situated. All legal proceedings pertaining to the above matters or dispute shall be instituted only in courts having territorial jurisdiction (of Haridwar Courts) over the place where BHEL-HEPP is situated and no other court shall have the jurisdiction.

Annexure-1List of Machines with Broad Specifications

Sl. No.	Machine	Specification
1	CNC Horizontal Borer 1 Nos	Spindle Dia : 250 mm Rotary Table Size : 6 M x 6 M X Axis : 18 M or more Y Axis : 5.5 M Z axis (Ram Axial Travel) : 1600 mm or more W axis (Spindle Axial Travel) : 1500 mm or more Load carrying Capacity : 150 Ton or more Main Drive Power : 128 KW or more Equipped with Boring & Facing Head
2	CNC Vertical Borer 1 Nos	Table Diameter: 8M Turning Height: 8M Swing Diameter: 9M RAM Stroke: 4.0m Weight Capacity: 200 Ton Main drive Power: 200 KW Hydrostatic Bearing diameter of Table: 5M or more
3	CNC Lathe 1 Nos	Swing Diameter: 3500mm Turning Length: 16M Weight Capacity: 120 Ton Main drive Power: 200 KW Accessories: Grinding, Rolling
4	CNC Vertical Borer 1 Nos	Table Diameter: 4M Turning Height: 4M Swing Diameter: 5M Weight Capacity: 120 Ton Main drive Power: 120 KW RAM Stroke: 3M
5	CNC Horizontal Borer 1 Nos	Spindle Dia: 160 mm Rotary Table Size: 3 M x 3 M X Axis: 15 M or more Y Axis: 4.0 M Main Drive Power: 80 KW or more Table Load carrying Capacity: 65 Ton or more with long Boring & Facing Heads



Annexure-2

Scope of Work: Contractors are requested to comment on the Scope Work as below:

S. No	Description	Scope	BHEL Remarks	Contractor Acceptance/Remarks
1	Machine arrangement	Contractor	Time lines for mobilisation, installation and Start of operation of machining Contract to be specified by Contractor	
2	Machine Pre-Dispatch Inspection	BHEL	Contractor to Offer and Arrange for Inspection by BHEL Personnel. Specification will be provided by BHEL.	
3	Machine Transport to BHEL Works	Contractor	Including Packing, Freight & Transit Insurance	
4	Machine Installation including required civil foundation for the machine	Contractor	a) BHEL will provide demarcated area in as-is, where-is condition. b) EOT Crane only will be provided by BHEL. c) Auxiliaries for each of the machines like isolation transformers, stabilizers, air compressor etc. shall be arranged by the contractor. d) Any other requirement will be in scope of Contractor. e) Insurance for the machines, operators etc. will be under the scope and responsibility of the contractor and is to be borne by the contractor for the total period of the contract.	
5	Machine Installation Spares, Hardware, Civil works, electrical & electronic items, cabling, etc	Contractor	For power supply to machines, single point power source will only be provided by BHEL. Further connection & distribution to the machines and workplace shall be in Contractor's scope.	
6	Machine Prove Out including Trial runs, calibration, test machining and prove-out to meet accuracy	Contractor	Contractor to Offer and Arrange for Inspection by BHEL Personnel.	
7	Operation of machines	Contractor	a. All manpower, CNC programming, consumable, standard tools etc. required for operation of the machine will be in scope of the Contractor unless otherwise mutually agreed upon. b. Qualified and experienced operators (minimum ITI) and supervisory staff shall be deputed by Contractor in adequate numbers. c. BHEL will only provide the raw material/components, drawings and process sheets for machining to the contractor up to the designated workplace allocated to him. d. Power, and water shall be provided at nearest point but further distribution shall be in the scope of the Contractor. e. EOT crane required for machine operation shall be provided by BHEL. Crane operation along with lifting slings, d-shackles etc. shall be in the scope of the contractor. f. Contractors shall handover the excess / balance materials including off-cuts and total scrap after machining to BHEL	



8	Quality & accuracy of the machined components	Contractor	a. Contractor shall ensure the machined components meet prescribed quality standards of BHEL. b. Post machining the components shall be offered to BHEL quality personnel or BHEL customs for ensuring accuracy of the components. In process inspection will be done by contractor. c. Any rework required shall be carried out by the Contractor at no additional cost. d. Liability for faulty workmanship shall lie with the Contractor	
9	Maintenance of machines	Contractor	a. Manpower and material for maintenance of the machine shall be in scope of the Contractor b. Contractor shall depute only qualified manpower for maintenance of the machines. c. Contractor shall maintain the machine properly to minimise downtime of the machine.	
10	Compliance to Industrial norms, safety, environmental, labour and other statutory norms	Contractor	a. The contractor shall comply with all statutory enactments including but not limited to Contract Labour Regulation and Abolition Act, 1970; Minimum Wages Act, ESI Act 1948, EPF Act, 1952, & Bonus Act, etc. All existing statutory liabilities relating to engagement of personnel related to labour laws shall be sole responsibility of the Contractor. The list of workers employed by the contractor shall be communicated to the authority from time to time. b. All PPEs essential to comply with statutory safety norms shall be in the scope of the contractor	
11	Reporting & Records	Contractor	Contractor shall maintain logs of hours run, downtime, breakdowns, maintenance, quality issues etc. Contractor shall provide periodic reports (weekly / monthly) to the nominated officer of BHEL	
12	Dismantling and removal of machine post expiry of contract period or further extension contract	Contractor		



Annexure- 3

Documents to be submitted by Contractors

S. No.	Description	Documents to be submitted	Confirmation (Y/N)
1.	Cl. 3.5 (Pre-Qualification Requirement – i to iv)	Documents in support of Prequalification Requirements. For Financial documents CA certification is mandatory	
2.	Cl. 3.5 (Pre-Qualification Requirement– v to vii)	Declaration by Authorized Signatory on a Letterhead	
3.	Cl. 3.6: Instructions	Documents in support to as sought in Section 3.6 For Financial documents CA certification is mandatory	
4.	Confirmation to sign BHEL's Non-Disclosure Agreement (NDA) at a Later stage.	Declaration by Authorized Signatory on a Letterhead	
5.	Acceptance of EOI Proposal	Submission of signed and stamped copy of EOI	
6.	Time Schedule for mobilisation, Installation and Starting of Operation of Machining	Submission of Time Schedule	



Annexure- 4

General Information

Date: _____

Legal Name of the Contractor/Contractor/Supplier Company	
Legal Address	
Mobile No. of concerned Official	
Email ID of concerned Official	



Annexure- 5

Broad Information regarding Casing Sizes

Component	Max. Height (mm)	Max. Body dia(mm)	Max. Swing dia(mm)	Wt. of Assembled Casing (Tons)
IP OUTER CASING (660MW)	5540	4200	5600	67.2
IP OUTER CASING (800MW)	5890	5125	5442	79
LP INNER CASING (660MW)	6470	5840	7846	84
LP INNER CASING (700MW)	2980	4700	6272	61
LP INNER CASING (800MW)	5351	5510	6560	61.3
IP INNER CASING (800MW)	3785	3200	4186	79.2
HP INNER CASING (800MW)	3360	1966	1966	41.8

Broad Information regarding Rotor Sizes

LP Rotor Rating (MW)	Total Length (mm)	Weight Forging/Bladed Rotor (Kg)	Maximum Swing Diameter of LP rotor (Without Blade) (mm)	Maximum Swing Diameter of LP rotor (With Blade) (mm)
660	8081	97700 / 95000	1900	2604
800	6932	65900 / 64600	1800	2788
700 Nuclear	8270	79997 forging	1800	2336