

BHARAT HEAVY ELECTRICALS LIMITED
POWER SECTOR - PROJECT ENGINEERING MANAGEMENT

EOI for Material cost optimization for structural steel based on sharing of part of
corresponding material cost saving

Expression of Interest

EOI Ref no: -PW/PE/CMM/CIVIL /EOI/2024-25/1

Subject: - Expression of Interest for Material cost optimization for structural steel based on sharing of part of corresponding material cost saving

1. INTRODUCTION

BHEL is the largest engineering and manufacturing enterprise in India in the energy related/infrastructure sector, today. BHEL was established more than 50 years ago, ushering in the indigenous Heavy Electrical Equipment industry in India - a dream that has been more than realized with a well-recognized track record of performance.

BHEL manufactures over 180 products under 30 major product groups and caters to core sectors of the Indian Economy viz., Power Generation & Transmission, Industry, Transportation, Telecommunication, Renewable Energy, etc. The wide network of BHEL's 16 manufacturing divisions, four Power Sector regional centres, over 100 project sites, eight service centres and 18 regional offices, enables the Company to promptly serve its customers and provide them with suitable products, Systems and services -- efficiently and at competitive prices. The high level of quality & reliability of its products is due to the emphasis on design, engineering and manufacturing to international standards by acquiring and adapting some of the best technologies from leading companies in the world, together with technologies developed in its own R&D centres.

BHEL's vision is to become a world-class engineering enterprise, committed to enhancing stakeholder value. The company is striving to give shape to its aspirations and fulfil the expectations of the country to become a global player.

For more information, refer BHEL's website: www.bhel.com. Project Engineering Management (PEM) Division is BHEL's power plant System Integrator, a nodal agency providing total engineering solutions for conventional thermal and gas-based power projects and conventional island of nuclear power plant, enabling BHEL to offer complete Engineering, Procurement and Construction (EPC) services for power projects.

PEM was born in 1974 as Consultancy Services Division (CSD) to address the market demand for turnkey services in power and related areas. Rechristened in 1976 as Projects Engineering Division (PED), the division has been known as Project Engineering Management (PEM) since 1984 onwards. PEM enjoys a unique position as complete power plant engineering due to a continuous relationship with customers, consultants, national bodies such as CEA, CBIP and BIS, BHEL manufacturing units, vendors and contract execution agencies such as Power Sector Regions of BHEL in all facets of project conceptualization, engineering, execution and commissioning. For more information about PEM, refer PEM's website: <https://pem.bhel.com>.

Through this EOI, BHEL intends to identify interested and capable agencies from India for Notice for Inviting Expression of Interest (EOI) to undertake cost optimization and based on sharing of part of corresponding material cost saving.

for structural engineering works of:

1. 3X800 MW TALABIRA TPS - Power House including Common Control Room
2. 2X800 MW Koderma TPS - Power House including Common Control Room
3. 2x800 MW Singrauli TPS - Gypsum dewatering building, Ball Mill Building and Pipe rack

The objective of the EOI is to:

- Arrive at details of specification meeting technical requirements, including terms of payment for profit sharing between BHEL and interested parties.
- Shortlist interested parties for further processing through open tender.

Through this Expression of Interest (EOI), PEM seeks responses from interested design and engineering consultants/ parties.

2. INSTRUCTION TO INTERESTED PARTIES

- 2.1. Scope of Interested parties shall be limited to response and suggestions to this EOI only.
- 2.2. Scope of work, Deliverables, Terms and Conditions, Eligibility / Qualification Criteria, defined in this EOI may get modified / improved at the time of Tender. However, in response to EOI, Interested Party may suggest improvement wherever necessary.
- 2.3.** Interested parties should submit their response with detailed concept note / approach paper to address scope of work by email within 15 days from publication of this EOI.
- 2.4. The details submitted by the Interested Party shall be complete in all respects and BHEL may seek clarifications/additional information as considered necessary. Such clarifications/additional information must be provided within 3 days of BHEL request.
- 2.5. The Interested parties may be called for interaction and presenting their proposal, if required.
- 2.6. Any request for further information or clarification on the EOI document may be submitted to the above-mentioned officials within 15 days from publication of this EOI.
- 2.7. Duly authorized representative(s) of the Interested Party shall send document over e-mail to above mentioned recipient. Response to EOI should be prepared in such a way so as to provide a straight forward, detailed proposal for scope of work and concise description on interested party's organization, manpower capabilities and resources required.
- 2.8. The EOI process shall be governed by, and construed in accordance with, the laws of India and the Courts at New Delhi shall have exclusive jurisdiction over all disputes arising under, pursuant to and/ or in connection with the EOI process.
- 2.9. Interested parties should provide following details:
 - 2.9.1. Detail concept note and approach paper to address scope of work, technical specification of the proposed solution.

2.9.2. Details as per format for Expression of Interest in Annexure -I.

2.9.3. Documentary proof for Eligibility Criteria in Annexure- I.

3. BROAD SCOPE OF WORK

The main intent of work is to review the structural drawing provided by BHEL and provide measures to further optimize the same while ensuring safety and stability of the structure/ complying customer technical specification and relevant Indian/international codes. Ease of construction shall also be ensured while providing optimized structural design/ drawings.

Following shall be the broad steps of works:

1. The consultant shall perform detail engineering and review BHEL drawings for suggesting optimized section of various structural members so as to optimize the overall tonnage of structures under scope. Consultant shall also ensure that suggested method of optimization comply with customer technical specification, codes and standards as applicable.
2. The consultant shall provide all necessary technical support to BHEL while taking approval from customer on the optimized design and drawings finalized between consultant and BHEL. Consultant shall also provide necessary technical support to resolve the comments provided by customer/customer's consultant while approval of drawings.

To enable above work, following inputs shall be provided by BHEL:

1. BHEL shall provide system layouts, equipment loading inputs and technical specification of the project as required for design/design review of structures under scope of work.
2. BHEL shall provide structural drawings indicating sizes of various members and their tonnage for structures under scope of work.

4. PAYMENT TERMS

The saving achieved by consultant in total steel tonnage from the structural steel G.A drawings provided by BHEL shall be considered for payment calculation on sharing basis on part of corresponding material cost saving.

The payment shall be made on savings in Material cost only. Approx. 20% saving in material cost shall be shared with the selected party. The payment shall be made at following three stages for each project under scope;

- i) Stage -I: On approval of main frame drawings covering main column, main beams, ties and bracing from customer.
- ii) Stage -II: On approval of all floor drawings of structures from customer.
- iii) Stage-III: On approval of balance structural drawings from customer.

5. RIGHT TO ACCEPT OR REJECT EOI:

5.1. 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 Prospective bidder(s) to submit fresh Applications.

5.2. 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.

Annexure-I

Format for Expression of Interest

1 Organization Details

Name of the organization	
Date of Incorporation	
Type of Organization (Pvt/ Public /Partnership/ LLP etc.)	
Total Staff Strength	
Address of Corporate / Head / Registered Office	
Phone Number of Registered Office	
Website	

2 Contact Person for the Applicant

Name: Designation:

Address: Email:

Telephone Office: Mobile No.

3 Eligibility Criteria:

A: Interested Party should have a registered office in India. Documentary proof to be submitted

B: Interested Party should not be currently black listed / banned for business dealings by any Govt. authority / department / agency or by any BHEL Unit / Region / Division / Office. Self-certification for same should be submitted.

C: Interested Party should have following experience:

S. No	Parameter for evaluation of Interested parties	List of documents to be submitted	Minimum qualifying criteria
1	Experience in design/design review.	Any document like PO/ Work order copy.	Should have experience in design/design review of Power House Structure of any Thermal Power Plant of minimum rating of 500 MW in Last 7 Years
2	Number of Civil engineers that shall be working on the mentioned projects.	Any document to prove the educational qualification of the civil engineers in the organisation. List of such employees along with their educational qualification and work experience duly certified by organisation secretary/officer at the level of Executive director or above.	Minimum four numbers of Civil engineers having design experience of structural steel building with minimum qualification of BE/BTech from any recognised university. At least one engineer should have minimum 10 years of experience in design of structural steel buildings of any thermal power project. Other team members should have minimum 5 years of experience in design of

			structural steel buildings of any thermal power project. The working team should be on the rolls of the company for minimum 1 year.
3	No of years of registration	Registration details of the company	The consultancy should be registered for minimum 5 years.

Other information/documents to be furnished by Vendor/Agencies:

1. Details are to be furnished regarding the qualified Engineers and of design assistant or draftsmen, their experience and drafting manpower employed as per Sl. No. 2 above.
2. The bio data experience of the engineers shall be submitted to BHEL for approval with this prequalification which shall also be reviewed prior to placement of a specific project orders.
3. Projects executed by the Consultant should be listed with brief details of scope of work. Consultant should furnish documentary evidence from client for having successfully completed project(s).

Undertaking on Company

1. I/We hereby declare that the details furnished in response to this EOI are true and correct to the best of my knowledge and belief. In case any of the above information is found to be false, I am aware that I may be held liable for it.
2. I/We shall agree to sign non- disclosure agreements (NDA) to ensure information security of BHEL-PEM

Place: Name & Signature:

Date: Designation:

Company Seal

The details of this EOI are also being hosted on our website [www. https://pem.bhel.com](https://pem.bhel.com) & www.bhel.com with the last date for receiving the response as 03.12.2024; 02:00 PM.

The EOI document shall be sent at the following **email address** on or before 03.12.2024; 02:00 PM:

Mr. Manish Kumar Sinha, Sr. MGR/CMM M/s Bharat Heavy Electricals Ltd., Project Engineering Management, BHEL SADAN, Plot No 25, Sector-16 A, Noida-201301 Kind Attn: Manish Kumar Sinha / CMM E-MAIL: manish.sinha@bhel.in Ph. No. 9873414263	Mr. Kumar Suman Saurabh, MGR/CMM /s Bharat Heavy Electricals Ltd., Project Engineering Management, BHEL SADAN, Plot No 25, Sector-16 A, Noida-201301 Kind Attn: Kumar Suman Saurabh / CMM E-MAIL: sumansaurabh@bhel.in Ph. No. 9718771765
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Prospective applicants may seek any clarification in regard of EOI from the below mentioned officials:

Mr. Anil Khandelwal, DGM/CIVIL M/s Bharat Heavy Electricals Ltd., Project Engineering Management, BHEL SADAN, Plot No 25, Sector-16 A, Noida-201301 Kind Attn: Anil Khandelwal / CIVIL E-MAIL: anilkhandelwal@bhel.in Ph. No. 9810144148	Ms. Shilpa Mittal Chaturvedi, Sr. MGR/CIVIL M/s Bharat Heavy Electricals Ltd., Project Engineering Management, BHEL SADAN, Plot No 25, Sector-16 A, Noida-201301 Kind Attn: Shilpa Mittal Chaturvedi / CIVIL E-MAIL: smc@bhel.in Ph. No. 9945406145
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