

BHARAT HEAVY ELECTRICALS LIMITED
(A Government of India Undertaking)
INDIA

Notice seeking

Expression of Interest

from

Prospective Vendors

for

Furnaces (In SRU)

for the 2000TPD Coal to Ammonium Nitrate Plant to be set up by
BCGCL at Jharsuguda Odisha State India

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SECTION-1

DISCLAIMER

- 1.1 The information contained in this Expression of Interest (EOI) document is provided to the Prospective Vendor, 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.
- 1.2 This invitation to EOI document does not purport to contain all the information that each Prospective Vendor may require.

This invitation to 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 Prospective Vendor who reads or uses this invitation to EOI document.

Prospective Vendor should conduct his own investigations and analysis and should check the accuracy, reliability and completeness of the information in this invitation to EOI document and where necessary obtain independent advice from appropriate sources.
- 1.3 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 invitation to EOI document.
- 1.4 BHEL may at any time, in its absolute discretion, but without being under any obligation to do so, modify, amend or supplement the information in this invitation to EOI document.
- 1.5 The issue of this EOI does not imply that BHEL is bound to select and shortlist any or all the Prospective Vendor.

Even after selection of suitable Prospective Vendor, BHEL is not bound to proceed ahead with the participation in any or all business opportunities and in no case be responsible or liable for any commercial and consequential liabilities in any manner whatsoever.
- 1.6 The Prospective Vendor shall bear all costs associated with the preparation, technical discussion/presentation and submission of EOI.

BHEL shall in no case be responsible or liable for the costs regardless of the conduct or outcome of the EOI process.
- 1.7 Canvassing in any form by the Prospective Vendor or by any other agency on their behalf shall lead to disqualification of their proposals against this invitation to EOI.

SECTION-2

TIMELINES OF EOI PROCESS & CONTACT DETAILS

2.1 TIMELINE OF EOI PROCESS

The schedule of activities of the EOI Process shall be as follows -

Sl. No.	Description	Date
1	Publishing of Notice for EOI document	16.05.2026
2	Last date of Submission of EOI response (BHEL will reserve the right of extension of the date)	30.05.2026

2.2 CONTACT DETAILS:

All the correspondence shall be marked to the following:

Mr. Amit Kumar Sr Manager DABG, CTC, NBA Group HPEP, Bharat Heavy Electricals Limited (BHEL), Hyderabad, India, PIN 502032 Tel:(+91)- 40-23182969, 9703677310 E-Mail: kumar.amit@bhel.in	Mr. Shaktikant Dash Additional General Manager DABG, CTC, NBA Group HPEP, Bharat Heavy Electricals Limited (BHEL), Hyderabad, India, PIN 502032 Tel:(+91)- 40-23185365, 7010750230 E-Mail: shaktikant@bhel.in
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2.3 GUIDELINES FOR EOI SUBMISSION

The Prospective Vendor shall forward their documents as part of EOI, to the e-mail of the contact persons indicated above.

The size of the e-mail (with attachments) may be restricted to **15 MB** due to constraint at receipt. The attachments may be split and sent in no. of e-mails clearly mentioning in subject of mail 'Mail 1 of N', Mail 2 of N etc.

SECTION – 3

BHEL

3.1 BHEL

Bharat Heavy Electricals Limited (BHEL) is a Central Public Sector Enterprise under ministry of Heavy Industry and Public Enterprises, Government of India.

It is an integrated power plant equipment manufacturer and one of the largest engineering and manufacturing companies of its kind in India having a turnover of around US \$ 2.6 billion and is a company listed in stock exchanges of India.

The company is engaged in the design, engineering, manufacture, construction, testing, commissioning and servicing of a wide range of products and services for the core sectors of the economy, viz. Power, Transmission, Industry, Transportation, Renewable Energy, Water Management, Oil & Gas and Defence with over 180 product offerings to meet the needs of these sectors.

BHEL has been in the business for more than 50 years and BHEL supplied power equipment account for about 58% of the total thermal generating capacity in India.

The company has highly skilled and committed manpower of approximately 30,000 employees spread across 16 manufacturing units, 4 project execution units, 8 service centres and 15 regional offices besides host of project sites spread all over India and abroad.

BHEL has its footprint in all the inhabited continents with references in 82 countries with cumulative overseas installed capacity of BHEL manufactured power plants nearing 10,000 MW.

BHEL invests more than 2.5% of turnover on R&D and innovation.

More details about the entire range of BHEL's products and operations can be seen at www.bhel.com.

3.2 DABG, CTC, NBA Group of HPEP (Unit of BHEL)

DABG, CTC, NBA Group of HPEP is a Unit of BHEL working on EPC basis and is located in Hyderabad, Telangana State in Southern India. It has capabilities to execute the projects on EPC basis and has rich experience of engineering the Captive Power Plants and has experience of executing wide variety of projects like Solar Power Plants, Railway Line Electrification and Sulphur Recovery Unit in Refinery.

SECTION – 4

PROJECT DETAILS

- 4.1 Coal India Limited (CIL) and Bharat Heavy Electricals Limited (BHEL) have formed a Joint Venture Company in the name of BHARAT COAL GASIFICATION AND CHEMICALS LIMITED (**BCGCL**), hereinafter also referred to as “OWNER” with its registered office at Bandhabahal Old PO Belpahar, BIT Colony, MCL (In front, Bandhbahal Colony), Lakhimpur, Jharsuguda- 768211, Orissa.
- 4.2 Projects & Development India Ltd. (PDIL) has been appointed by OWNER for Preparation Detailed Feasibility Report (DFR) for setting up of High Ash coal-to-Ammonium Nitrate Plant at Lakhanpur area of Mahanadi Coalfields Limited, Jharsuguda district, Odisha and also the consultant for the project.
- 4.3 BHEL is identified for setting up the “Syngas Purification plant” for the project.

SECTION – 5

EOI

5.1 OBJECTIVE OF THIS NOTICE:

The objective of this Notice is to seek Expression of Interest (EOI) from prospective vendors capable of supplying **Furnaces** for use in the Reaction Furnace and Incinerator of the Sulphur Recovery Unit (SRU). The Reaction Furnace is the “heart” of the SRU where the initial sulphur recovery reactions start under high-temperature conditions. The Incinerator Furnace acts as the combustion chamber where residual sulphur-containing gases are completely burned and rendered safer before atmospheric discharge

5.2 EXPECTATIONS FROM RESPONDENTS TO THIS NOTICE (AS PART OF EOI):

Vendors are expected to furnish their

- Details of their Product range in Supplying Furnaces
- Product Catalogues, Datasheets, Presentations etc.
- Past Track record (PTR) for supply of above equipment

5.3 ELIGIBILITY CONDITIONS FOR PROSPECTIVE VENDOR

The Prospective Vendor can be Private, Public or Government owned legal entity.

5.4 RESULT OF EOI:

Based on the data furnished, BHEL will shortlist the vendors for future/ firm enquiry.

5.5 INSTRUCTIONS

- a) A prospective vendor requiring any clarification to the EOI documents may notify the same through e-mail or by post at the address indicated in Section 2 of this EOI.

BHEL will respond to any request for clarification or modification of the EOI

Prospective Vendors are advised to regularly visit BHEL’s website for clarifications, modifications if any.

- b) BHEL at their sole discretion may inspect the Vendor works / office / reference project sites etc. for the purpose of evaluation, if required.

5.6 MISCELLANEOUS:

Right to accept or reject any or all Applications:

- i). Notwithstanding anything contained in this invitation to EOI, BHEL reserves the right to accept or reject any EOI and to annul the EOI Process and reject all EOIs at any time without any liability or any obligation for such acceptance, rejection or annulment and without assigning any reasons, thereof.
- ii). BHEL reserves the right to disqualify any Prospective Vendor during or after completion of EOI process, if it is found there was a material misrepresentation by any such Prospective Vendor or the Prospective Vendor fails to provide within the specified time, supplemental information sought by BHEL.
- iii). BHEL reserves the right to verify all statements, information and documents submitted by the

EOI Reference Number: BHEL/CTC/EOI/SRU/001, Rev 00 Dated 16.05.26

Prospective Vendor in the EOI. Any such verification or lack of such verification by BHEL shall not relieve the Prospective Vendor of his obligations or liabilities hereunder nor will it affect any rights of BHEL.

5.7 Governing Laws & Jurisdiction:

The EOI process shall be governed by, and construed in accordance with, the laws of India and the Courts at New Delhi (India) shall have exclusive jurisdiction over all disputes arising under, pursuant to and / or in connection with this EOI process.

SECTION-6

TECHNICAL DETAILS

6.1 Acid gas stream majorly consisting of H₂S and CO₂ is released from Rectisol unit in LSTK-2. BCGCL intend to set up Sulphur Recovery Unit (SRU) to recovery elemental Sulphur from the acid gas stream.

The SRU is designed to process Acid gas stream from the Rectisol unit in LSTK-2 to produce elemental liquid Sulphur. The tail Gas from the SRU is treated in the Tail Gas Treating Unit (TGTU) to recover Sulphur from the tail gas for reprocessing in the SRU, prior to incineration and release to atmosphere. Acid gas stream details are provided for the design case in the below Table.

Parameter	Units	
Temperature	Deg C	40
Pressure	Kg/cm ² (a)	2
Normal volumetric flow	Nm ³ /hr	757.2
Mass flow	Kg/hr	1273.2
Components		Acid Gas Stream (Kmol/hr)
H ₂	Mol %	0.2312
N ₂	Mol %	16.7175
CO	Mol %	0.0146
Ar	Mol %	0.0037
CH ₄	Mol %	0.0458
CO ₂	Mol %	43.0669
H ₂ S	Mol %	38.0966
COS	Mol %	1.6742
CH ₃ OH	Mol %	0.1423
H ₂ O	Mol %	0
HCN	Mol %	0.0071

6.2 BHEL is approaching an eminent engineering organization for carrying out the Design, Engineering, Procurement, Fabrication, Painting, Testing, Supply, Installation and Commissioning of Furnaces in Reaction furnace and combustion chamber in Incinerator for SRU system.

SECTION-7

CHECK LIST FOR DOCUMENTS TO BE FORWARDED ALONG WITH EOI

Prospective Vendor should submit following documents along with their Proposal:

Sl. No.	Document Description	Format	Bidder's confirmation (Yes / No / Not Applicable)
1.	General information	Annexure - 1	
2.	List of Executed/ Ongoing Projects	Annexure - 2	
3.	Product catalogue indicating product range in Furnaces (in Reaction furnace & Incinerator for SRU process)	-	
4.	Product(s) technical datasheet	-	
5.	Executed projects reference Approved GA drawings, dispatch documents or customer certification letters etc.		

SECTION-8

Annexure – 1

General Information

Date:

Legal name of company	
Country of constitution:	
Year of constitution:	
legal address in country of constitution:	
Mobile Number of the Concerned Person:	
Email id of the Concerned Person:	
<i>Willing to get registered as a Supplier in BHEL's Supplier Directory</i>	<i>Yes / No</i>
Attached are copies of original documents of	
<ul style="list-style-type: none">○ Articles of Incorporation or Documents of Constitution, and documents of registration of the legal entity named above.	

(Signature of Authorized Signatory)

Name:

Designation:

Address:

Date:

Annexure – 2

List of Commissioned / completed / Under Execution Projects in last 15 years

Date:

Prospective Vendor 's Legal Name:

Prospective Vendor should provide information of their executed projects

Equipment/ Item name	Brief description of the Equipment/ Item	Reference Project			Remark
		Name of the Project & Location	Capacity, Date of order and commissioning of the Equipment	Owner/Customer, Customer, contact address/ Tel./ Fax	

Note:

The Vendor [Sole Bidder / Any authorized bidder] should provide relevant experience of design and supply of Furnaces in last 15 years. The system should have been in operation for a minimum period of twelve (12) months as on date of issuance of tender. It may be possible that bidder might not have supplied above system in single PO, in such cases, BHEL shall accept the proven-ness criteria furnished by bidders i.e., if the part of this EOI are supplied in multiple POs, such that over all items of the tenders should have been supplied by the bidder in one or more PO and the same should be in successful operation for more than one year from the date of issuance of tender. However, in each PO, shall meet the technical parameters criteria.

(Signature & Seal)