

Ref: CFFP/FORGE/EOI/01

Date: 30/05/2018

EXPRESSION OF INTEREST (EOI)

Bharat Heavy Electricals Limited, a leading Indian engineering and manufacturing enterprise engaged in engineering, manufacturing of products and execution of turnkey projects in the field of Power Generation and Transmission **invites EOI for supply of 40 T ESR processed steel ingot in grade X12CrMoWVNbN 10-11. as per attached specification FF 04062 R 00**

for further details please visit: www.bhel.com



Bharat Heavy Electricals Limited

DISCLAIMER

All information contained in this EOI provided / clarified are in good interest and faith. The information contained in this Expression of Interest document or subsequently provided to Applicant(s), whether verbally or in documentary or any other form, by or on behalf of BHEL, is provided on the terms and conditions set out in this EOI and such other terms and conditions subject to which such information is provided.

The purpose of this EOI is to provide interested parties with information that may be useful to them in the formulation of their application for qualification and subsequent selection pursuant to this EOI. This EOI is not an offer by BHEL to the prospective Applicant(s) or any other person. This EOI is neither intended nor shall it be construed as creating or requiring any on-going or continuing relationship or commitment with any party or person.

Though adequate care has been taken in the preparation of this EOI document, the interested firms shall satisfy itself that the document is complete in all respects. The information is not intended to be exhaustive. Interested Agencies are required to make their own enquiries and assumptions wherever required. Intimation of discrepancy, if any, should be given to the specified office immediately. If no intimation is received by this office by the date mentioned in the document, it shall be deemed that the EOI document is complete in all respects and firms submitting their interest are satisfied with the EOI Document in all respects.

BHEL also reserves the right to withhold or withdraw the process at any stage. Neither BHEL nor its employees and associates will have any liability any loss, expense or damage which may arise from or be incurred or suffered in connection with anything contained in this EOI document or any matter deemed to form part of this EOI document, the information and any other information supplied by or on behalf of BHEL. BHEL accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance/use of any statements/information contained in this EOI by the Applicant. BHEL is not making any representation or warranty, express or implied, as to the accuracy or completeness of any information/statements made in this EOI.

The Applicant shall bear all its costs associated with or relating to the preparation and submission of its Application including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by BHEL or any other costs incurred in connection with or relating to its Application. All such costs and expenses will remain with the Applicant and BHEL shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by an Applicant in preparation or submission of the Application, regardless of the conduct or outcome of the EOI

Invitation for Expression of Interest for supply of 40 T ESR processed steel ingot in grade X12CrMoWVNbN 10-11. as per attached specification FF 04062 R 00

This Expression of Interest (EOI) seeks response from Qualified suppliers, who are willing to manufacture and supply 40 T ESR ingot in X12 steel as per BHEL specification.

About Bharat Heavy Electricals Limited (BHEL)

Bharat Heavy Electricals Limited (BHEL) is a Central Public Sector Enterprise, wherein Government of India is holding 63.06% of its equity. 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 \$ 5 billion. 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, Oil & Gas and Defense with over 180 product offerings to meet the needs of these sectors. The energy sector covers generation, transmission and distribution equipment for hydro, thermal, nuclear and solar photo voltaic. BHEL has been in this business for more than 50 years and BHEL supplied equipment account for about 58% of the total thermal generating capacity in India. BHEL is also listed in stock exchanges of India. The company has 17 manufacturing units, 4 power sector regions, 8 service centers and 15 regional offices besides host of project sites spread all over India and abroad. BHEL's has its footprint in all the inhabited continents with references in 82 countries including Malaysia, Oman, Iraq, Syria Sudan, Libya, Cyprus, Malta, Afghanistan, Bangladesh, Bhutan, New Zealand etc. with cumulative overseas installed capacity of BHEL manufactured power plants nearing 10,000 MW. BHEL's highly skilled and committed manpower of approximately 40,000 employees, the state of art manufacturing facilities and latest technologies, has helped BHEL to deliver a consistent track record of performance. With the current order book exceeding US \$ 15 Billion*, BHEL is poised for excellent future growth. Our ongoing major technology tie-ups include agreements with KHI, Japan for SS Coaches & Bogies; GE, USA (for Super-Critical Boilers & Pulverisers and Gas Turbines); Siemens, Germany (for Steam Turbines, Generators and Condensers); Metso Automation Inc., Finland (for Control & Instrumentation); MHI, Japan (for Pumps); MHPS, Japan (for Flue Gas Desulfurization Systems); Vogt Power International, USA (for HRSG); GENP, Italy (for Compressors); Turbo Lufttechnik, Germany (for Fans) and Sheffield Forge Masters International, UK (for Forgings). **More details about the entire range of BHEL's products and operations can be had by visiting our web site www.bhel.com.**

About Central Foundry Forge Plant

Incepted in 1976, Central Foundry Forge Plant (CFFP) is a strategic business unit of BHEL, one of the leading engineering Enterprise of India in the field of Energy, Industry and Infrastructure and a navratna Public Sector Undertaking under ministry of Heavy Industries. CFFP is involved in manufacture of steel casting and forgings mainly for the power plant equipment alongwith other industries such as steel, cement plants, defence, ship building, among others.

CASTINGS

- Castings for Thermal Power Plant equipments like Inner and Outer Casings, Casings for governors like IV & CV, ESV & CV Casings, Strainer Housings, Bends, Valve Covers, etc.
- Castings for Hydro Power Plant equipment like Runners for Pelton, Francis and Kaplan turbines, Valve castings like BF Valve Door, SV Door, Wicket Gates (Guide Vanes), Rings, etc.
- Castings for steel industry (Rolling mill stands, Large Bell, etc.)
- Castings for Ship Building industry (A and P Brackets)

FORGING

- Forgings for thermal Power Plants equipment like rotors, discs, casing guides, Bearing shells
- Forgings for hydro power like turbine/generator shafts, rotor discs, thrust collar, etc.
- Forgings for steel industries like rolls, spindle, pinions, trunnions, feed rolls, etc.

Background of EOI

Forge shop wants to conduct trials on X12 material by making a rotor forging from an ingot processed through ESR Process.

The rotor shall be approximately 17 to 18 MT despatch weight.

ESR trials are being conducted to have enhanced ultrasonic response and improved mechanical properties by way of ultra clean steel.

TECHNICAL CRITERIA

The vendors interested in supplying the ESR ingot must meet the requirements detailed out in Pre Qualification Criteria documents PQC/FF 04062 R00

The broad technical requirements are given in the specified documents FF 04062 R00

FINANCIAL CRITERIA

1. Net Worth for last 3 financial years should be positive.
2. Vendor to provide D&B /credit reform report etc for evaluation.

Responses are sought with supporting proofs for meeting the Technical and Financial Criteria and also other details on the feasibility of the ingot , detailed proposal of the vendor , manufacturing facilities available with the vendor and experience of the vendor in dealing with the grade X12CrMoWVNbN 10-11.

The EOI Proposal

The interested vendors should submit their Expression of Interest by 3.00 PM on 28/06/2018. Expression of Interest should be accompanied by

- The details of the proposed ingot along with deviations if any from the technical requirements of the specifications.
- Details/documents of past experience as required by the PQC.
- Details of the ESR equipment available with the vendor.
- Company profile of the vendor.
- Details/documents of the financial criteria of the vendor.

The proposal complete in all respect may be sent to following address:

Additional General Manager- (FORGE SHOP)

Central Foundry Forge Plant

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