



**BHARAT HEAVY ELECTRICALS LIMITED**

**HEEP: HARDWAR-249403 (UK)**

**Fax: 01334-226462, Phone: 01334-281143**

**E-mail: [deepakkumar1@bhel.in](mailto:deepakkumar1@bhel.in); [harjesh@bhel.in](mailto:harjesh@bhel.in)**

**Tender no: PPX-BHEL/SOVs/STE-TG/EOI/21-22**

**Due Date: 18.11.2021**

**Notice for Expression of Interest for empanelment of New Vendors**

The Heavy Electrical Equipment Plant (HEEP) located in Haridwar, is one of the major manufacturing plants of BHEL. The core business of HEEP includes design and manufacture of large size steam and gas turbines, turbo generators, heat exchangers, condensers and auxiliaries.

**We are looking for reputed vendors having capability to manufacture & supply Solenoid Valves.**

**Contact persons:**

Mr. Harjesh Verma  
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Mr. Deepak Kumar  
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The offers received will be technically evaluated by BHEL & successful short listed parties will be asked to submit their detailed Techno-Commercial offers through formal NIT/Enquiry for our future requirements. Vendors shall confirm that there is no deviation with respect to BHEL Specifications. However, deviations, if any are to be listed as a separate attachment. The offers that do not meet the substantial requirements of our specifications are liable to be ignored.



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**Following documents are to be necessarily filled and submitted along with the technical offer:**

1. Details/ Documents in support of Specification/PQR (**Annexure-I**)
2. Supplier/Vendor Registration Form- Go through online supplier registration portal <https://supplier.bhel.in/>. After filling the online registration form send the copy of same along with your offer within due date.
3. Details of Manufacturing Facility
4. Company Profile.
5. Financial report of the company.
6. Past experience along with documentary proof.

Only Techno-Commercial BID along with the documents mentioned above should be sent and the envelope containing the offer shall be duly sealed and super scribed as “**Techno-Commercial Bid for ‘Manufacture & supply of Solenoid Valve’ against Tender No. PPX-BHEL/SOVs/STE-TG/EOI/21-22 Due Date -18.11.2021, Submitted by (Name of company)**”.

- This notification shall be published on [www.hwr.bhel.com](http://www.hwr.bhel.com), [www.bhel.com](http://www.bhel.com) & [www.eprocure.gov.in](http://www.eprocure.gov.in)
- Last date for downloading tender documents shall be 17.11.2021 till 1700 Hrs.(IST). Tenders will be received up to 13:45 Hrs. (IST) on 18.11.2021 will be considered and opened on the same day at 14:00 Hrs. (IST) in the Tender Room BHEL HEEP, Haridwar.
- Technical Offers complete in all respect must be addressed to “AGM (PPX-T)”.
- EMD & Tender fee are not applicable.
- The Quotation should be from the Principal / Original Manufacturer, failing which the quotation is likely to be ignored. In Case the quotation is submitted through agent, the quotation must accompany original authorization letter.
- BHEL will not be responsible for any type of postal delay / incomplete information from vendor.
- Amendments / Corrigendum, if any, will be hosted on our web site only.
- Drawings & specification will be shared with vendor after receiving filled-in signed & stamped Non- Disclosure Agreement.
- Vendors submitting their bids through e-mail may be advised to have following clear subject line:
  1. EOI/ Tender Enquiry Reference No. \_\_\_\_\_
  2. Bid opening Date (Techno-commercial) \_\_\_\_\_

Vendor to submit their bids as attachment (pdf format) with password protection and share the password through mail ([tendercell.heep@bhel.in](mailto:tendercell.heep@bhel.in)) after 1:45 PM (IST) on the day of bid opening, however if no password is received up to 4:00 PM (IST) bids will not be opened and will be ignored. Submission of bids through email shall be considered as consent to open the bid without physically witnessing the event.

For any further details please log on to [www.hwr.bhel.com](http://www.hwr.bhel.com), [www.bhel.com](http://www.bhel.com) & [www.eprocure.gov.in](http://www.eprocure.gov.in).

**AGM (PPX-T)**



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### **Annexure-I**

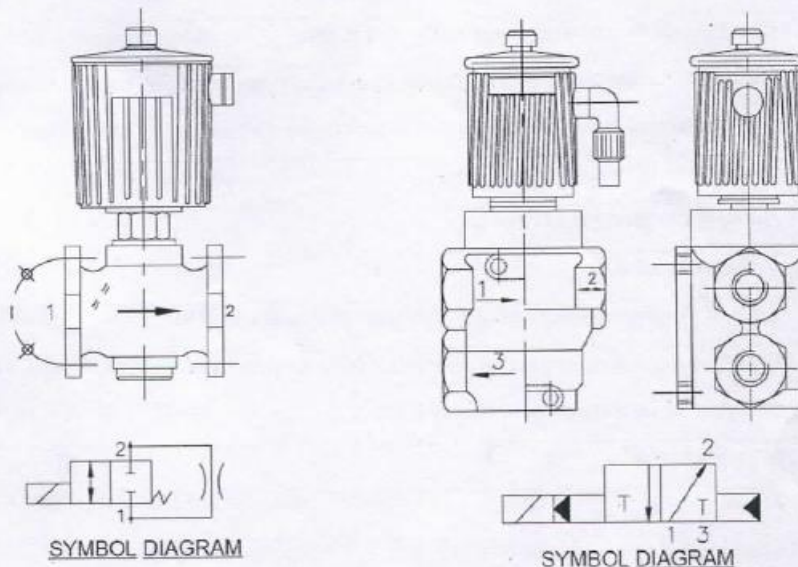


## **Expression of Interest (EOI) for Solenoid valves**

### **A. Item Description**

- 1) Brief description: The referred Solenoid valves are used in governing and protection system of 210/250/500 & 600MW rating subcritical steam turbine sets having working medium as Turbine oil or fire resistant fluid (phosphate esters). The Solenoid valves are electrically operated.
- 2) Typical Parameters:
  - i. Type: 2/2 way or 3/2 way Solenoid valves.
  - ii. Pressure rating: Pnom upto 25 bar
  - iii. Size: ranging from NB8 to NB50.
  - iv. Stroke timing: from 60ms to 230ms for different Solenoid valves
  - v. Voltage supply: 24 VDC
  - vi. End connection: Flange or threaded connection

Typical general arrangements and symbol diagrams are given in the following figure.



### **B. Qualification Criteria:**

The parties meeting the below mentioned experience, manufacturing & testing facilities and technical requirements shall be considered for further development of vendor for Supply of Solenoid valves.



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### Expression of Interest (EOI) for Solenoid valves

**1) Experience Requirement:**

- The vendor should have the experience of manufacturing, testing & supply of "Solenoid valve" for Steam turbine governing/protection system application. The vendor to confirm.
- The vendor should have the experience of satisfactory operation of "Solenoid valve" for at least one Steam turbine unit, for **minimum one year** as on date of issuance of EOI. The vendor to confirm.

In support of above points (a & b) the vendor to submit the following:

- Details of their past supplies of Solenoid valves in the experience list format as per table-1 given below:

**Table-1**  
**Experience list format**

Sl. No.		<u>Steam Turbine unit 1</u> (To be filled by the vendor)
1.	Name of the project and its Location	
2.	Client name and its address, Fax no. & Tel. No.	
3.	Name and designation of the responsible person in client's organization & e-mail address	
4.	Contract (P.O.) No. & Date	
5.	Name plate rating in MW of unit	
6.	Actual date of supply	
7.	Date of Commencement of operation of Solenoid valve	
8.	Whether item is in successful operation for a minimum period of 1 year as on date of issuance of EOI	
9.	Manufactured by	
10.	Application	
11.	Working medium	
12.	Size	
13.	Working Pressure	
14.	Nominal pressure	
15.	Input supply voltage	
16.	Stroke timing: Opening:- Closing:-	



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ii. Drawing & Datasheet of supplied Solenoid valves;

iii. **Either of the following for supplied Solenoid valve:**

- Copy of Purchase orders, Test reports of the project and Commissioning protocols (if available).  
The Purchase order (P.O.) shall not be prior to 01.01.2014; **OR**
- Certificates of satisfactory operation from their client / End user. The date of issue of experience certificate from their client / End user shall not be prior to 01.01.2014.

**2) Manufacturing & Testing Facilities Requirement:**

a. Vendor to confirm that they have in-house machining facilities to manufacture the Solenoid valve.

b. Vendor to confirm that they have all the in-house facilities for testing of this item. If the vendor intends to outsource any testing activity, particulars of the same along with details of the laboratory to be furnished to BHEL.

**3) Technical Requirement:**

The vendor should be capable of manufacturing, testing & supply of "Solenoid valve" for Steam turbine application with technical parameters listed at point i to vi below. The vendor to confirm.

- i. Type: 2/2 way or 3/2 way
- ii. Size: NB25 mm
- iii. Pressure rating: Pnom 25 bar
- iv. Working medium: Turbine oil or Fire resistant fluid
- v. Input supply voltage: 24 VDC
- vi. Stroke timing: <= 90ms

**C. Selection of Supplier/ Manufacturer / Company:**

Based on the information provided under this EOI, the prospective Supplier/ Manufacturer / Company shall be technically shortlisted. The short listed Supplier/ Manufacturer / Company will further be evaluated based on their credentials.

Pre-bid clarification meeting can be held with the short listed parties regarding deliverables and physical checking of facilities at vendor works.



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**DISCLAIMER**



**Expression of Interest (EOI) for Solenoid valves**

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 for development of experienced vendors for supply of Solenoid valves. 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 ongoing or continuing relationship or commitment with any party or person. This is not an offer or invitation to enter into an agreement of any kind with any party.

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. The issue of this EOI does not imply that BHEL is bound to select and shortlist Applicant(s) for next stage or to enter into any agreement(s) with any Applicant(s). BHEL reserves all right to reject any applications submitted in response to this EOI document at any stage without assigning any reasons thereof. 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.