



BHARAT HEAVY ELECTRICALS LIMITED  
433, INDUSTRIAL COMPLEX IVP GOINDWAL SAHIB  
DIST. TARN TARAN PUNJAB -143422  
(SUPPLIER REGISTRATION CELL)

NO: BHEL: IVP: SDC: EOI:19-20

Date: 07.12.2019

**EXPRESSION OF INTEREST FOR INVITING VENDOR REGISTRATION APPLICATIONS**

BHARAT HEAVY ELECTRICALS LIMITED [BHEL] IVP is manufacturing Industrial Valves and other Boiler accessories at its Industrial Valves Plant, Goindwal Sahib Unit. The range of valves includes Carbon Steel, Alloy Steel and Stainless Steel- Gate, Globe and Non-Return Valves (Flap Valves) of Pressure class up to C1500 of sizes 2" to 32" at present. The plant is heading towards increasing its volume as well as range of items. We are planning to introduce valves up to 2500 class. For an annual turnover to the tune of 200 Cr. BHEL IVP has to procure various forms of raw materials, bought out items and sub-assemblies

Expression of interest and applications for registration are invited from reputed Indian manufacturers/agents of foreign manufacturers [if the manufacturer is not doing business in India directly].

Vendors are required for the below mentioned items:

| Sr. No.                                                          | ITEMS                                              | DESCRIPTION OF ITEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | APPROXIMATE ANNUAL PROCUREMENT VALUE (in Lakhs) |
|------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <b>1.0 PROCURED THROUGH FRAMEWORK AGREEMENT OR RATE CONTRACT</b> |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                 |
| 1.1                                                              | <b>Valve Castings preferably machined castings</b> | Casting manufacturers having sound foundry infrastructure, Radiography testing, IBR certification and experience/willingness to supply castings components required for our valves sizes from 2" to 32" in material grades Carbon Steel [ASTM A 216 Gr. WCB, WCC], Alloy Steel [ASTM A 217 Gr.WC6, WC9, C12A,] and Stainless Steel [ASTM A351 Gr. CF8, CF8M,CF3M,CD3MN] and in the pressure classes of 150,300,500,600,900,1500 and above. Annual procurement Qty. is around 3200 MT. Full radiography testing is required for 600 class and above castings. Patterns are to be developed by vendor himself own his own cost. No compensation is provided by BHEL for pattern development. Currently above mentioned castings are procured both in Raw form and Machined form. But it is preferred to get the machined castings from the | 3300                                            |



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|                                                |                                                                 |                                                                                                                                                                                                                                                                  |     |
|------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|                                                |                                                                 | supplier in future. Therefore, suppliers with in-house castings facilities and in house or outsourced machining facilities are required.                                                                                                                         |     |
| 1.2                                            | <b>Packing Boxes<br/>(Reserved for MSEs only)</b>               | Packing boxes of various sizes made of hard wood material used for packing of our products. Drawing No. 2-SH-BW-022/13 & TDC:WOODENBOX/06                                                                                                                        | 200 |
| 1.3                                            | <b>Gases</b>                                                    | Argon, oxygen and DA gases are required for industrial use.<br>DA IS:308/1988<br>Oxygen Gas IS:309/2005<br>High Purity Argon gas Gr-I –IS:5760/1998 Rev II                                                                                                       | 8   |
| 1.4                                            | <b>Spiral Wound Gaskets</b>                                     | Elliptical with loop and circular shaped Spiral wound gaskets with SS 316 filler. Approx. annual requirement 25000 nos. of various sizes. For sample drawings and technical delivery conditions, pl. refer to Folder named “Spiral Wound Gaskets”.               | 30  |
| 1.5                                            | <b>Fasteners<br/>(Reserved for MSE vendors only Sr. No. 23)</b> | Fasteners are procured in Grades B7/B16/B7M/IS1367/SS304/B8/B8M/PlainSteel /IS1364,1363/BPS41319/41320/41304/ASTM32 0Gr7/B8/ASTM8276/IS1875/SA307/Steel Cl. 4.6,6.8, 8.8. IS2048,ASTM A182 F6,SA182 Gr F316, Stiron , IS4009,SA182 F22,ASTM 276, steel,5, 6, 22H | 200 |
| <b>Material Procured through Normal Tender</b> |                                                                 |                                                                                                                                                                                                                                                                  |     |
| <b>2.0 Category 1</b>                          |                                                                 |                                                                                                                                                                                                                                                                  |     |
| 2.1                                            | <b>Investment Castings</b>                                      | Wall blower items like Nozzle head castings and bushes are procured in the Investment Castings. ASTM A 297 Gr. HH is used for Investment castings.                                                                                                               | 10  |
| 2.2                                            | <b>Forging</b>                                                  | Carbon Steel ,Stainless Steel Forgings of ASTM SA 105, ASTM A 182 Grades F6a Cl 3, F22,F316,F60.                                                                                                                                                                 | 100 |
| 2.3                                            | <b>Steel Ball</b>                                               | Material specification of Round Steel Shots - S330 J827/ J444                                                                                                                                                                                                    | 2.0 |
| 2.4                                            | <b>Oil Seal and O Ring</b>                                      | Oil Seals and O ring is required according to Drawing 32000101855.                                                                                                                                                                                               | 1.5 |
| 2.5                                            | <b>Ring Terminal</b>                                            | These are required according to TCI-129.                                                                                                                                                                                                                         | 1   |
| 2.6                                            | <b>Terminal Block</b>                                           | These are required according to TSB-30.                                                                                                                                                                                                                          | 2   |



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|                       |                                                                                    |                                                                                                                                                                                                                                                                                                                       |     |
|-----------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 2.7                   | <b>Lovejoy Flexible Coupling</b>                                                   | As per Drawing No. 42020100727 and TSB:011 Rev 02.                                                                                                                                                                                                                                                                    | 1.5 |
| 2.8                   | <b>Verdigris Green Paint</b>                                                       | Paint required as per IS 5Shade 280.                                                                                                                                                                                                                                                                                  | 2   |
| 2.9                   | <b>Cable Gland</b>                                                                 | 2 types of Gland are required. One is as per Drawing No. 32020100166. Other one is SPEC:SB:0012 Rev:02.                                                                                                                                                                                                               | 5   |
| 2.10                  | <b>Used Container</b>                                                              | Used Container with Domestication. These containers will be used to move several parts from BHEL-IVP to various BHEL consumers in India only. Size: - 20' X 8' X 8.6', Standard Size (Heavy Duty), Minimum weight of container 2200Kgs, Load Carrying capacity 28,000Kgs or more.                                     | 16  |
| <b>3.0 Category 2</b> |                                                                                    |                                                                                                                                                                                                                                                                                                                       |     |
| 3.1                   | <b>Welding consumables</b>                                                         | SAW flux, E430, E410 saw wires. Cobalt base bare solid filler rod for Hard facing that conforms to ASME Sec.II.C, SFA-5.21 classification ER CoCr-A. For all the welding consumables apart from submission of vendor registration form approval from Welding Research Institute (WRI Trichy) is mandatorily required. | 125 |
| 3.2                   | <b>Welding Electrodes</b>                                                          | Welding electrodes for E430 and E410 are procured. Welding Electrodes are required as per sample WCP. Product approval from WRI Trichy is required.                                                                                                                                                                   | 20  |
| 3.3                   | <b>Limit Switch (Light Duty and heavy duty)</b>                                    | As Per TDC VL: STDC: 021 for drawings refer to folder "Limit Switch".                                                                                                                                                                                                                                                 | 15  |
| 3.4                   | <b>Padlock (category reserved for MSE suppliers only Sr. No. 197 in MSE order)</b> | Padlock 6 Lever S 528. Refer folder "Padlock" for drawings. Reserved for MSE vendors only as per govt. Policy. Only the applications given by MSE suppliers shall be considered for this category.                                                                                                                    | 1.5 |
| 3.5                   | <b>Cam Roll Bearings</b>                                                           | It is used in clevis bracket assembly. Required as per specifications. SPEC 0002 Rev:07                                                                                                                                                                                                                               | 15  |
| 3.6                   | <b>Sintered Bronze Bush</b>                                                        | IS 3980 Gr. 1 Class A. For Drawings refer to folder "Sintered Bronze Bush".                                                                                                                                                                                                                                           | 20  |



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| 4.0 Category 3 |                                            |                                                                                                                                                                                                                                                                                                         |     |
|----------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 4.1            | Malleable Iron castings & SG Iron Castings | Hand wheels are used in Valves. These are procured in any of the materials between SG Iron / Malleable Iron/WCB. Hand wheels for valves made of Malleable Iron are procured according to standard IS: 14329. Hand wheels for valves are procured in SG Iron according to standard GR 450/10 of IS 1865. | 100 |
| 4.2            | Non-Ferrous Items                          | Mainly Aluminium Bronze/ Fully machined items used in Valves and Wallblower. Weighing ~1 kg to ~5 kg. Approx. annual requirement of all sizes together would be 17000 nos.                                                                                                                              | 150 |
| 4.3            | Eye Bolts                                  | Forged eye head bolts made of ASTM A193 Gr. B7 with nut made of ASTM A194 Gr. 2H and as per Technical Delivery Condition No. TDC: 5:164 & TDC: 5:166.                                                                                                                                                   | 10  |
|                |                                            | Forged eye head lifting hooks made of IS-4190 & IS-1875 Cl 2                                                                                                                                                                                                                                            |     |
| 4.4            | Limit Switch for Valves                    | Limit switches for valves as per Drawing No. 4V000009930-02 and STDC:021 are required.                                                                                                                                                                                                                  | 3   |
| 4.5            | Packing and bull rings                     | Non-asbestos endless and single oblique cut circular packing rings of Graphite material. For drawings, pl. refers to folder named "Packing Rings and Bull rings".                                                                                                                                       | 15  |
| 4.6            | End Covers                                 | Metallic and hard wood end covers are required. Drawings are mentioned in the "End Cover" folder. Plastic End Covers                                                                                                                                                                                    | 50  |
| 4.7            | Wall Blower Sub-Assemblies                 | Full Wall Blower Sub- Assemblies are procured as per the attached drawings. These Sub-Assemblies involve around 40-45 components each. All the material used in the assemblies is to be procured by vendor himself.                                                                                     | -   |
| 4.8            | Pipes & Tubes                              | Pipes and Tubes are required in the following material grades SA 106 Gr. B, C, IS 1079, IS 513, AISI 602, SA210 Gr. A1, SA 192, SA335P22.                                                                                                                                                               | 60  |
| 4.9            | Aluminum Castings                          | Aluminium castings are required in Wall blower Assembly. For drawings refer to folder "Aluminum Castings".                                                                                                                                                                                              | 100 |
| 4.10           | Ni-Resist Yoke Bushes                      | Nickel-Resist yoke Bushes are used in Conventional valves of Stainless Steel.                                                                                                                                                                                                                           | 5   |



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| <b>5.0 Category 4</b> |                                                                      |                                                                                                                                                                                                                                                                                                  |     |
|-----------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| <b>5.1</b>            | <b>Steel Rounds</b>                                                  | Carbon Steel and Stainless Steel Rolled/Forged Barstocks of ASTM SA 105, ASTM A 182 Grades F6a Cl 3, F430 (Othron), F 304 & F316 SA 193 B7, IS 1875 of sections from ø22 mm to ø300. For Technical Delivery Conditions; pl. refers to folder named “Steel Rounds”.                               | 300 |
| <b>5.2</b>            | <b>Wall blower Motors (category reserved for MSE suppliers only)</b> | Two below Mentioned motors are used in Wall Blower:<br>1)0.56 KW, 415 Volts, 50 Cycles, 3 Phase induction Motor Class F Insulation<br>2)0.09 KW, 415 Volts, 50 Cycles, 3 Phase induction Motor Class F Insulation<br>As per TDC for wall blower motors TSB 019 rev:10 Drawing no. 42020100303/02 | 50  |
| <b>6.0 Category 5</b> |                                                                      |                                                                                                                                                                                                                                                                                                  |     |
| <b>6.1</b>            | <b>Machined components</b>                                           | Various valve components of SA 105 & A182 Gr. F6A/ F316 materials. Total Requirement of these components is more than one Lakh. For sample drawings and technical delivery conditions, pl. refer to Folder named “Machined Components”.                                                          | 50  |
| <b>6.2</b>            | <b>Emery Paste</b>                                                   | Black Silicon Carbide Lapping Paste; Extra Coarse- Particle size [PS] 80 microns, Grit Size 120; Coarse- PS 60 microns, Grit Size 220; Fine- PS 25Microns, Grit Size 320.                                                                                                                        | 5   |
| <b>6.3</b>            | <b>Ball Bearing</b>                                                  | As per SPEC:SB:0002 Rev: 07 and Drawing no. 3 V000002888.                                                                                                                                                                                                                                        | 10  |
| <b>6.4</b>            | <b>Cables</b>                                                        | As per TSB: 005,007 Rev :003, TSB:044 Rev:05.                                                                                                                                                                                                                                                    | 5   |
| <b>6.5</b>            | <b>LS Mount Cover</b>                                                | As per Drawing 32020100150.                                                                                                                                                                                                                                                                      | 2   |
| <b>6.6</b>            | <b>Name/Tag Plate</b>                                                | As per specifications.                                                                                                                                                                                                                                                                           | 4.5 |
| <b>6.7</b>            | <b>Push Button</b>                                                   | Required as per TSB: 068 Rev 05.                                                                                                                                                                                                                                                                 | 3   |
| <b>6.8</b>            | <b>Sim /Washers</b>                                                  | As per specifications.                                                                                                                                                                                                                                                                           | 1.5 |
| <b>6.9</b>            | <b>Machining job-work</b>                                            | Almost all castings and rounds/plates are to be machined as per BHEL Drawings on sub-contracted basis.                                                                                                                                                                                           | 300 |
| <b>6.10</b>           | <b>Chemically cleaned cloth</b>                                      | Minimum size requirement is 1feet X 1 Feet                                                                                                                                                                                                                                                       | 5   |



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MSE's shall be given preferences as described in "Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012" & "Public Procurement Policy for Micro and Small Enterprises (MSEs) Amendment Order, 2018", subject to the submission of proper documentary evidence (i.e. UAM(Udyog Aadhaar Memorandum), District Industries Centers or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts and Handloom or any other body specified by Ministry of Micro, Small and Medium Enterprises) with quotation. "Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012" document can be downloaded from link <http://dcmsme.gov.in/FinalPressorder.pdf> and can also be collected from the office of Manager/MM IVP Goindwal. Salient feature of this order are as below:

- 25% Procurement of the tender value shall be made from MSE (Micro, Small Enterprises) firms.
- 25% of the 25% quantity (i.e. 6.25% of the tender quantity) offered to the MSE's shall be reserved for MSE's owned by SC/STs. Failure to participate by any MSE owned by SC/ST's; this 6.25% quantity shall be procured from other MSEs.
- 3% from within the 25% quantity offered to the MSE's shall be reserved for women owned MSE's. Failure to participate by any MSE owned by women; this 3% quantity shall be procured from other MSEs.
- EMD shall be exempted for MSE's. All these benefits are subject to production of all statutory documents
- In tender, participating Micro and Small Enterprises quoting price within price band of L1+15 per cent shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a Micro and Small Enterprise and such Micro and Small Enterprise shall be allowed to supply up to 25 per cent of total tendered value. In case of more than one such Micro and Small Enterprise, the supply shall be shared proportionately (to tendered quantity).

BHEL IVP is looking for prospective raw-material manufacturers and machining job-work vendor who have well-established and sound organizational infrastructure and quality systems to work with.

BHEL IVP shall evaluate the vendors as per its established vendor selection, evaluation and registration procedure. BHEL IVP Goindwal is now following completely Online Supplier registration process. Link for online Supplier registration form is as mentioned below:

<https://supplier.bhel.in/>

**It is also informed that, for all the above items manufacturers are preferred. If any agent/ stockist/ distributor/ dealer/ trader want to apply for registration, he should first confirm that his OEM is enlisted with BHEL Goindwal for that item. If his manufacturer/Principal/OEM is not enlisted for the item for which he is applying, then he should first submit the supplier registration form of his manufacturer/Principal/OEM. After the assessment and registration of manufacturer/Principal/OEM only the application of his agent/ stockist/ distributor/ dealer/ trader can be considered.**



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**Agents/ stockists/ distributors/ dealers/ traders can only be considered if they submit the Principal's Authorization Certificate.**

**Agent/ stockists/ distributors/ dealers/ traders can only be considered, if their OEM/Principal confirms us to take the services of their Agent/ stockist/ distributor/ dealer/ trader.**

BHEL IVP invites such vendors to visit its plant located in Goindwal Sahib Punjab Dist Tarn Taran on any working day from Monday to Saturday between 1000 Hrs to 1600 Hrs and contact undersigned for any clarification regarding:

| Area about which information is required                                                                                                         | Items details and requirement | Vendor registration form/procedure | Machining Job work |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------|--------------------|
| Phone No.                                                                                                                                        | 01859-224615                  | 01859-224603                       | 01859-224641       |
| Email                                                                                                                                            | kumarrakesh@bhel.in           | navjot@bhel.in                     | gss@bhel.in        |
| Fax: 01859-222061<br>BHARAT HEAVY ELECTRICALS LIMITED<br>INDUSTRIAL VALVES PLANT<br>433, INDUSTRIAL COMPLEX<br>GOINDWAL SAHIB, DISTT. TARN TARAN |                               |                                    |                    |