

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)
इंडस्ट्रियल वॉल्वस प्लांट, गोइंदवाल साहिब
आपूर्तिकर्ता विकास कक्ष



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Industrial Valves Plant, Goindwal Sahib

Supplier Development Cell

NO: BHEL: IVP: SDC: EOI:24-25

Date: 27.09.2024

EXPRESSION OF INTEREST FOR INVITING SUPPLIER / VENDOR REGISTRATION APPLICATIONS

BHARAT HEAVY ELECTRICALS LIMITED [BHEL] 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 1500 of sizes 2" to 32" at present. For an annual turnover to the tune of Rupees 115 Crore, BHEL, IVP Goindwal Sahib has to procure various forms of raw materials and bought out items.

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].

It is to be noted that BHEL is using Government e-market (GeM) portal (<https://gem.gov.in/>) and BHEL e-Procurement portal (<https://eprocurebhel.co.in/>) for procurement activities. Therefore, it is requested to all the vendors to register themselves on GeM portal as well as on BHEL e-Procurement portal for participation in BHEL tenders.

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

BHEL, IVP Goindwal Sahib shall evaluate the vendors as per its established vendor selection, evaluation and registration procedure. Abridged version of "Supplier Evaluation, Approval & Review Procedure" is available at <https://www.bhel.com/supplier-registration>. BHEL, IVP Goindwal Sahib is now following completely online Supplier registration process. Supplier has to submitted application in Online Supplier Registration Portal at <https://supplier.bhel.in>.

Note: Material group to be selected in supplier registration portal (<https://supplier.bhel.in>) for submission of application is specified in bracket in item column in following table.

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Vendors are required for the below mentioned items:

Sr. No.	Items	Description of item	Approximate annual procurement value (in Lakhs)
1.0 PROCURED THROUGH FRAMEWORK AGREEMENT OR RATE CONTRACT			
1.1	Valve Castings – Carbon Steel, Alloy Steel, Stainless Steel (GVCST)	Casting manufacturers having sound foundry infrastructure, Radiography testing, IBR certification and experience / willingness to supply castings components required for our valve sizes from 2” to 32” in material grades - Carbon Steel [ASTM A216 Gr. WCB, WCC], - Alloy Steel [ASTM A217 Gr. WC6, WC9, C12A,] and - Stainless Steel [ASTM A351 Gr. CF8, CF8M, CF3M, CD3MN] and in the pressure classes of 150, 300, 400, 500, 600, 900, 1500. Annual procurement quantity is around 2000 MT. Full radiography testing is required for 600 class and above castings. Patterns are to be developed by vendor himself at his own cost. No compensation is provided by BHEL for pattern development. Currently above-mentioned castings are procured in raw form. Therefore, suppliers with in-house castings facilities are required. For sample TDC and drawings, please refer to folder named “Castings”.	2500
1.2	HSFG Fasteners (GHFST)	M16 to M36 HSFG BOLTS & NUTS, Washers, of Grade 8.8/8 & 10.9/10 are required. For sample TDC, please refer to folder named “HSFG Fasteners”.	2000
1.3	Foundation Bolts	Foundation Bolts with diameter range from 20 MM to 80 MM as per IS2062E250A are required. For sample TDC and drawings, please refer to folder named “Foundation Bolts”.	200
1.4	Packing Boxes (Reserved for MSE Suppliers only) (GVWPK)	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. For TDC and drawings, please refer to folder named “Packing Boxes”.	150
1.5	Gases for Industrial Use (GVGAS)	Argon, Oxygen and Dissolved Acetylene (DA) gases are required for industrial use. DA Gas as per IS:308/1988 latest revision Oxygen Gas as per IS:309/2005 latest revision High Purity Argon Gas Gr-I –IS:5760/1998 latest revision	8

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MATERIAL PROCURED THROUGH NORMAL TENDER			
2.0 Category – Steel			
2.1	Steel Round bar-Carbon Steel, Alloy Steel, Stainless steel (GVBCS)	Carbon Steel, Alloy Steel and Stainless Steel Rolled/ Forged Bar stocks 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 sample TDC, please refers to folder named “Steel Rounds.”	200
3.0 Category – Castings & Forgings			
3.1	Non-Ferrous Items (GVCNF)	Mainly Aluminum Bronze/ Fully machined items used in Valves and Wall blower. Weighing up to 200 grams. Approx. annual requirement of all sizes together would be 1000 nos. For sample specifications please refer to folder names “Non-Ferrous”.	25
3.2	Castings SG Iron/ Malleable Iron (GVCSG)	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. - SG Iron yoke bushes are required for valves with material grade A536 GR.65-45-12. - Grey cast iron casting as per drawing 32020100346 For sample TDC and drawings, please refer to folder named “SG Iron and Malleable Iron”.	10
3.3	Aluminum Castings (GWALC)	Machined Aluminum castings are required in Wall blower Assembly. For sample casting & machining drawings refer to folder “Aluminum Castings”.	100
3.4	Investment Castings (GWIVC)	Wall Blower items like Nozzle head casting, Seat Insert, Valve Disk & Stem and Stellite Rods are procured in the Investment Castings. For sample TDC and drawings, please refer to folder named “Investment Castings”.	25
3.5	Forgings (GVFOR)	Carbon Steel, Stainless Steel Forgings of ASTM SA 105, ASTM A 182 Grades F6a Cl 3, F22, F316, F60. For sample TDC, please refer to folder named “Forgings”.	75
4.0 Category – Sub Delivery – Control & Instrumentation Items			
4.1	Wall blower Motors (Reserved for MSE Suppliers)	Two types of below mentioned motors are used in Wall Blower: 1. 0.56 KW, 415 Volts, 50 Cycles, 3 Phase Induction Motor Class F Insulation	60

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Sr. No.	Items	Description of item	Approximate annual procurement value (in Lakhs)
	only) (GWMTR)	2. 0.09 KW, 415 Volts, 50 Cycles, 3 Phase Induction Motor Class F Insulation As per TDC for wall blower motors TSB-019 & Drawing No. 42020100303. Please note that this motor shall be approved by BHEL before tender opening date. Hence suppliers are advised to get approve their motor make well in advance from BHEL.	
4.2	Limit Switch-Light Duty and Heavy-Duty (GWLLD & GWLHD)	Limit Switches for light duty application and heavy-duty application are used in Valves and Wall Blowers. For sample TDC and drawings, please refer to folder named "Limit Switches".	10
4.3	Cable Gland (GWCGB)	Two types of cable gland are required in Wall Blower. - Double Compression Cable Glands suitable for 3 core armoured cable with Brass body material are required as per TDC SPEC:SB:0012. - Single Compression Cable Glands suitable for multicore cable with M.S. Galvanised material are required per Drawing No. 42000100781. For TDC and drawings, please refer to folder named "Cable Gland".	5
4.4	Cables (GWCAB)	- Single Core Cable with PVC sheathing is required as per TSB:005. - Three Core Unarmoured Cable with PVC sheathing is required as per TSB:007. - Three Core Armoured Cable with PVC sheathing is required as per TSB:044. For specifications, please refer to folder named "Cables".	3
4.5	Electrical Items (Crimping Lugs, Terminal Blocks, Push Button) (GWELE)	- Shrouded type Push Buttons are required as per specification TSB:068. - Ring type / Round Pin type Crimping Lugs / Ring Terminal with insulation type as PVC with metal reinforcement are required as per specification TCI-129. - Terminal Block (Clamp / Push type) with end clamp, end plate and jumper / shorting link are required as per specification SPEC:SB:0061. For TDC and drawings, please refer to folder named "Electrical Items".	2
5.0 Category – Sub Delivery – Mechanical Items			
5.1	Electrical Actuators- Low	Multi turn electrical actuators for Gate / Globe valve application with torque range from 3.5 Kg-M to 1600 Kg-M as required.	800

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	Torque and High Torque (GVACL, GVACH)	- Electrical actuator with / without integral starter per specification SPEC:AC:001. - Electrical actuator with Integral Starter and with diagnostic module as per specification SPEC:AC:IS:DIA & SPEC: AC+GBX:IS:DIA - Electrical actuator with Integral Starter (Non-Intrusive type with SIL certification and with Profibus/Hardwired interface) as per specification SPEC:AC+GB:IS:NI8:HWD. For sample specifications, please refer to folder named "Electrical Actuators".	
5.2	Pneumatic Actuators (GVPNA)	Double Acting Pneumatic Actuators with Manual Override are required as per specification SPEC:CV:0013. For specifications, please refer to folder named "Pneumatic Actuators".	50
5.3	Gear Box (GVGBX)	Bevel gear boxes for Gate / Globe valve application with torque range from 11 to 1600 Kg-M as per specification MOU/TP-VALVE/VALVE GEAR BOX. For specification, please refer to folder named "Gear Box".	150
5.4	Sintered Bronze Bush (GWSNF)	Sintered Bronze Bushes as per IS 3980 Gr. 1 Class A are required. For sample drawings refer to folder named "Sintered Bronze Bush".	10
5.5	Bearings (GVBRG, GWBRG)	Single Thrust Ball Bearing and Com Roll Bearings are required as per TDC SPEC:SB:0002 and Drawing no. 3V000002888. For sample TDC and drawings, please refer to folder named "Bearings".	15
5.6	Steel Ball (GWMBI)	Material specification of Round Steel Ball as per TSB:047 and drawing no. 4V225304046. For TDC and drawing, please refer to folder named "Steel Ball".	1
5.7	End Covers (GVENM, GVENW, GVENP)	Metallic End Cover, Hard Wood and Plastic end covers are required. For sample drawings refer to folder named "End Covers".	10
5.8	Spiral Wound Gaskets (GVGSK)	Elliptical with loop and circular shaped Spiral wound gaskets with SS 316 filler are required. Approx. annual requirement 10000 nos. of various sizes. For sample TDC and drawings, please refer to folder named "Spiral Wound Gaskets".	15
5.9	Oil Seal and O Ring (GWOSR)	Oil Seals and O ring is required according to drawing 32000101855. For TDC and drawings, please refer to folder named "Oil Seal and O Ring".	0.50

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5.10	Packing and Bull Rings (GVPCCK)	Non-asbestos endless and single oblique cut circular packing rings of Graphite material are required. For sample drawings, please refer to folder named "Packing and Bull Rings".	8
5.11	Love Joy Flexible Coupling (GWLJC)	Love Joy Flexible Coupling of aluminum material is required as per drawing no. 42020100727 and TSB:011. For TDC and drawing, please refer to folder named "Love Joy Flexible Coupling".	3
5.12	Name / Tag Plate (GVNMP)	Name / Tag Plate of material Aluminium, Stainless Steel & Brass are required. For sample drawings, please refer to folder named "Name Plate".	5
5.13	Padlock (Reserved for MSE Suppliers only) (GVPAL)	Rivet less Padlock 6 Lever of Brass Material are required. For drawings, please refer to folder named "Padlock".	2
6.0 Category – Welding Consumables			
6.1	Welding Electrodes & Welding Wires (GVW01, GVW02, GVW03, WCW05)	- Welding Electrodes E410 and E430 are procured as per WCPI-222 & WCPI-223 respectively. - Welding Electrodes E7018-I are procured as per WCPI-207. - Welding Electrodes E309-16 are procured as per WCPI-218. - Welding Wires SAW ER410 & ER430 are procured as per WCPI-012 & WCPI-013 respectively. Apart from submission of vendor registration form, approval from Welding Research Institute (WRI Trichy) is mandatorily required. For specifications, please refer to folder named "Welding Consumables".	30
6.2	Welding Flux & PTAW Powder (GVW04, GVWFX)	- Submerged Arc Welding (SAW) flux is procured as per WCPI-407. - Cobalt base powder for Plasma Tungsten Arc Welding (PTAW) is procured as per WCPI-307. Apart from submission of vendor registration form approval from Welding Research Institute (WRI Trichy) is mandatorily required. For specifications, please refer to folder named "Welding Consumables".	20
7.0 Category – Fasteners			
7.1	Eye Bolts (GVEYE)	- Forged eye head bolts made of ASTM A193 Gr. B7, B8M with nut made of ASTM A194 Gr. 2H and as per	10

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Sr. No.	Items	Description of item	Approximate annual procurement value (in Lakhs)
		Technical Delivery Condition No. TDC: 5:164 & TDC: 5:166. - Forged eye head lifting hooks made of IS-4190 & IS-1875 Cl 2. For sample TDC and drawings, please refer to folder named "Eye Bolts".	
7.2	Fasteners (Reserved for MSE Suppliers only) (GVFST)	Fasteners are procured in Grades B7/B16/B7M/IS1367/SS304/B8/B8M/PlainSteel/IS1364,1363/BPS41319/41320/41304/ASTM320Gr7/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 For sample TDC and drawings, please refer to folder named "Fasteners".	200
8.0 Category – Paints & Thinners			
8.1	Paint (GVALP, GWVGP)	Aluminum Paint (Heat Resistant up to 600 deg. C) as per IS 13183 Grade-1. Verdigris Green Paint as per IS:5 Shade (Synthetic Enamel Paint (Long Alkyd) to IS2932 Verdigris Green Shade No. 280 of IS:5.	5
9.0 Category – Tubes			
9.1	Pipes & Tubes (GVPNT)	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, SA312TP304H. For sample TDC, please refer to folder named "Pipes & Tubes".	5
10.0 Category – Sub-Contracting			
	Machining job-work	Almost all castings and rounds/plates are to be machined as per BHEL Drawings on sub-contracted basis.	250

Preferences as mentioned in "Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012" & "Public Procurement Policy for Micro and Small Enterprises (MSEs) Amendment Order, 2018", or as per latest guidelines issued by government shall be given to Micro and Small enterprises subject to submission of valid MSE document prevailing on the date tender opening (Part-I opening in case of two-part bid). "Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012" document can be downloaded from link <https://dcmsme.gov.in/FinalPressorder.pdf> and can also be collected from the office of Head-MM / BHEL, IVP Goindwal. Salient feature of this order is as below:

- 25% Procurement of the tender value shall be made from MSE (Micro, Small Enterprises) firms.

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- 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).

Preferences to MII as mentioned in "Ministry of Commerce and Industry – DPIIT - Public Procurement Order – 2017 – revision dated 16.09.2020" or other applicable guidelines shall be given to applicable suppliers.

It is also informed that, for all the above items manufacturers are preferred. Non-manufacturer can also apply for registration. Non-manufacturer includes Indian sales office or subsidiary of foreign principal/ Indian Agents/ dealers/ traders/ authorised distributors/ authorised stockists/ channel partners/ etc. Agents/ stockists/ distributors/ dealers/ traders can only be considered if they submit the OEM's Authorization Certificate.

BHEL, IVP Goindwal Sahib invites such vendors / suppliers to visit its plant located at Goindwal Sahib, Dist-Tarn Taran (Punjab) 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	Supplier Registration Form/ Procedure	Machining Job Work
Name, Sh.	Aman Sharma	Rajesh Kumar	Gopal Singh
Designation	Sr. DGM	Sr. Manager	Sr. Manager
Phone No.	01859-224 615	01859-224 618	01859-224 669
Email ID	asharma@bhel.in	kumarrajes@bhel.in	gopal@bhel.in
BHARAT HEAVY ELECTRICALS LIMITED INDUSTRIAL VALVES PLANT 433, INDUSTRIAL COMPLEX GOINDWAL SAHIB, DISTT. TARN TARAN – 143422 PUNJAB			