



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

ENQUIRY	Phone: +91 431 257 7360 Email : ajayasalkar@bhel.in Web : www.bhel.com
NOTICE INVITING TENDER	

TWO PART BID	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
Tender to be submitted in two Parts	2631800008	13.02.2018	09.03.2018

You are requested to quote the Enquiry number date and due date in all your correspondence. This is only a request for quotation and not an order.

Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14.00 hrs on the Date of tender opening.

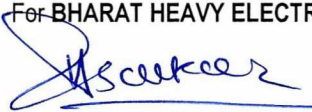
Item	Description	Quantity
10	Portable Pipe Facing and Beveling Machines – ID 80 to 300 mm as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or https://eprocure.gov.in/epublish/app)	2 Nos.
20	Portable Pipe Facing and Beveling Machines – ID 300 to 700 mm as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or https://eprocure.gov.in/epublish/app)	2 Nos.

Important points to be taken care during submission of offer

1. Delivery terms shall be FOR BHEL Stores, Thirumayam
2. Compliance Form No: CE/ MM/ TMM/ IMP 03 (for foreign vendors) & CE/ MM/ TMM/ IND 03A (for indigenous vendors) to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
3. Delivery period required is 4 months from the date of Purchase Order.
4. Erection and commissioning shall be done at BHEL Thirumayam by the supplier
5. Time period required for Erection and Commissioning shall be 2 weeks from the date of intimation by BHEL
6. All updates, amendments, corrigenda, etc., (if any), for each tender will be posted only on the above websites from time to time, as and when required, until each tender is opened. There will be no publication of such updates, amendments, corrigenda, etc., through newspapers or any other media.

BHEL's General guidelines / instructions (refer MM/CE/GENL/001), compliance form and technical specification can be downloaded from BHEL web site <http://www.bhel.com> or from <https://eprocure.gov.in/epublish/app> under Enquiry reference "2631800008".

Tenders should reach us before 14:00 hours on the due date
Tenders will be opened at 14:30 hours on the due date
Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present

Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**

AJAY V. SALKAR
Sr. Manager / Capital Equipment / MM
MM / Capital Equipment
BHEL, Tiruchirappalli - 620 014.

Technical Specification Part – A

Portable Pipe Facing & Bevelling Machines

S.No	BHEL Specification	Vendor's Offer
1.0	QUALIFYING CRITERIA	
1.1	The BIDDER / VENDOR (OEM) shall have at least FIVE Years of Experience in the Design, Manufacture & Supply of " <i>Pipe facing and bevelling machine</i> ".	
1.2	Only those vendors (OEMs), who have Manufactured, supplied and commissioned in India at least ONE <i>Pipe facing and bevelling machine</i> similar to the machine specified under Part B, in the last Ten years [as on date of this tender opening(first date)] should quote.	
1.3	Vendor has to submit at least ONE Performance Certificate from their customer, for satisfactory performance of <i>Pipe facing and bevelling machine</i> supplied to them and such equipment is working satisfactorily for a minimum period of one year [as on date of this tender opening (first date)]. For obtaining the Performance certificate, a suggestive format is provided at the end of part-A.	
1.4	BHEL reserves the right to verify the information provided by the Vendor. In case the information provided by vendor is found to be false / incorrect, the offer shall be rejected.	
2.0	INFORMATION TO BE PROVIDED BY VENDOR	
2.1	Vendor shall provide contact details (phone no & email id) including the address of his Agents / Service Centres in India.	
2.2	Details of <i>Pipe facing and bevelling machine</i> supplied to BHEL units, if any. (Year of commissioning, Application, Type)	
2.3	Number of <i>Pipe facing and bevelling machine</i> supplied and commissioned till date (to quote the equipment supplied during the last three years only)	
2.4	The BIDDER / VENDOR to furnish Reference List of Customers (max 10 customers) including Contact details (phone no & email id).	

Suggestive Format of Performance Certificate:

The performance certificate should be produced **on Customer's Letter Head.**

PERFORMANCE CERTIFICATE

- | | | |
|---|--|---------------------------------|
| 1 | Supplier of the machine | |
| 2 | Make & Model of the M/C | |
| 3 | Month & Year of Commissioning | |
| 4 | Application for which M/C is used | |
| 5 | a. Weight of the machine | |
| 6 | Performance of the Machine
(Strike off whichever is not applicable) | Satisfactory / Not Satisfactory |
| 7 | After sales service
(Strike off whichever is not applicable) | Satisfactory / Not Satisfactory |
| 8 | Any Other remarks | |

Signature & Seal of the Authority
Issuing the Performance Certificate

Performance certificate issued date:

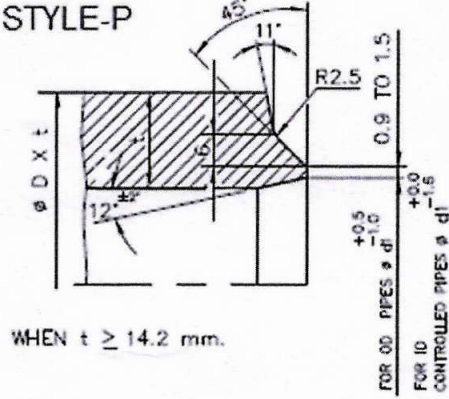
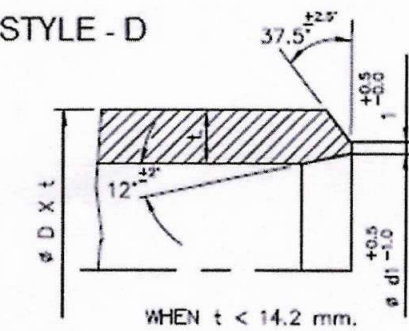
Contact details of issuing authority

Name & Designation :

Office No/ Mobile no :

Email ID :

Technical Specification Part-B
Portable Pipe Facing & Beveling Machines
ID 80 TO 300mm

Sl. No	BHEL Specification	Vendor Spec / comments
1.0	Application	Pipe Facing & bevelling machine
1.1	<p>Method of operation Pneumatically operated Portable machine, clamped to inside diameter of pipe. Capable of facing and bevelling operations as per style-P & D shown in the sketch</p> <div style="text-align: center;"> <p>STYLE-P</p>  <p>WHEN $t \geq 14.2$ mm.</p> </div> <div style="text-align: center;"> <p>STYLE - D</p>  <p>WHEN $t < 14.2$ mm.</p> </div>	
2.0	<p>Materials to be machined : Carbon steel, alloy steels SA335P91 & P92, Stainless Steel</p>	
3.0	Job details	
3.1	<p>Pipe Inside Diameter Machine Should be capable of facing and bevelling operation on pipes with inside diameter from 80mm to 300mm. Vendor to specify the actual range</p>	
3.2	<p>Pipe Thickness Machine Should be capable of facing and bevelling operation on pipes with thickness from 3mm to 50mm. Vendor to specify the actual range</p>	
4.0	Pipe Facing & bevelling Unit	
4.1	Brand & Model : Vendor to specify	
4.2	Minimum straight length of pipe required for clamping - Vendor to specify	

Technical Specification Part-B
Portable Pipe Facing & Bevelling Machines
ID 80 TO 300mm

Sl. No	BHEL Specification	Vendor Spec / comments
4.3	Material removal rate Minimum : 0.2mm / revolution for Alloy Steel.	
4.4	Depth of cut Minimum : 1mm for Alloy Steel	
4.5	Specify coolant requirement for machining (Yes / No). Recommended Coolant details to be provided if needed.	
4.6	Specify Weight of machine	
4.7	Speed of Spindle in RPM -Vendor to specify	
5.0	Tools	
5.1	Tool material -vendor to specify	
5.2	Tool type - Insert / HSS tool type- vendor to specify and provide details	
6.0	Power supply : Compressed air	
6.1	Compressed air Pressure & Flow rate Pressure of Compressed air available at our works is 5 to 6 bar. Vendor to select a suitable Air Motor for this compressed air pressure and provide the details on compressed air pressure and flow rate in CFM, required to operate the machine at maximum working range.	
7.0	Bought out items fitted to machine Vendor to provide Technical specification, Brand & Model name of all bought items (Air motor, Gear box, Bearings and other items if any) fitted to the machine	
7.1	Air Motor Acceptable Brands : Ingersoll Rand, Parker, Cooper, Gardner-Denver, San, Presto	
7.2	Gear Box details to be provided	
7.3	Bearings details to be provided	
8.0	Accessories and spares Vendor to specify if any accessories and spares required	
9.0	Technical offer must contain GA / Sectional view drawing with complete details of parts / components.	
10.0	O & M manuals One hard copy and one soft copy in English for each machine is to be provided	
11.0	Pre Dispatch Inspection The equipment shall be tested for its performance at supplier's work prior to dispatch of the equipment and test certificate shall be provided.	
12.0	Commissioning Vendor to prove out on job trials during commissioning of the machine at BHEL, Thirumayam for both the maximum and minimum size jobs as offered by BHEL	
13.0	Training Vendor to give training at BHEL, Thirumayam	

Technical Specification Part-B
Portable Pipe Facing & Bevelling Machines
ID 80 TO 300mm

Sl. No	BHEL Specification	Vendor Spec / comments
14.0	<i>Guarantee for a period of 12 months from the date of commissioning of the equipment at our works .</i>	
15.0	Supplier must submit point wise reply to specification, Deviations if any must be separately submitted with reasons for each.	
16.0	Scope of Supply	
	Item Description	Quantity
16.1	Pipe Facing & Bevelling Machine - <i>Each one number consisting of items listed below ('a' to 'c') and other items essential to operate the unit</i> <i>a. One Basic Unit for Pipe Facing & Bevelling operation</i> <i>b. One set of Operation & maintenance tools</i> <i>c. One hard copy and one Soft copy of Manual in English</i>	2 numbers
16.2	Tool bits for Facing	<i>5 numbers</i>
16.3	Tool bits for bevelling	<i>5 numbers</i>
16.4	<i>Vendor should quote all the consumable spares and machine spares list for two years of trouble free. The price for spares shall be quoted item wise.</i>	2 sets

Technical Specification Part-B
Portable Pipe Facing & Bevelling Machines
ID 300 TO 700mm

Sl. No	BHEL Specification	Vendor Spec / comments
1.0	Application	Pipe Facing & bevelling machine
1.1	<p>Method of operation Pneumatically operated Portable machine, clamped to inside diameter of pipe. Capable of facing and bevelling operations as per style-P & D shown in the sketch</p> <div style="text-align: center;"> <p>STYLE-P</p> <p>WHEN $t \geq 14.2$ mm.</p> <p>STYLE - D</p> <p>WHEN $t < 14.2$ mm.</p> </div>	
2.0	<p>Materials to be machined : Carbon steel, alloy steels SA335P91 & P92, Stainless Steel</p>	
3.0	Job details	
3.1	<p>Pipe Inside Diameter Machine Should be capable of facing and bevelling operation on pipes with inside diameter from 300mm to 700mm. Vendor to specify the actual range</p>	
3.2	<p>Pipe Thickness Machine Should be capable of facing and bevelling operation on pipes with thickness from 6mm to 50mm. Vendor to specify the actual range</p>	
4.0	Pipe Facing & bevelling Unit	
4.1	Brand & Model : Vendor to specify	
4.2	<p>Minimum straight length of pipe required for clamping - Vendor to specify</p>	

Technical Specification Part-B
Portable Pipe Facing & Bevelling Machines
ID 300 TO 700mm

Sl. No	BHEL Specification	Vendor Spec / comments
4.3	Material removal rate <i>Minimum : 0.2mm / revolution for Alloy Steel.</i>	
4.4	Depth of cut <i>Minimum : 1mm for Alloy Steel</i>	
4.5	Specify coolant requirement for machining (Yes / No). <i>Recommended Coolant details to be provided if needed.</i>	
4.6	Specify Weight of machine	
4.7	Speed of Spindle in RPM -Vendor to specify	
5.0	Tools	
5.1	<i>Tool material-vendor to specify</i>	
5.2	<i>Tool type - Insert / HSS tool type- vendor to specify and provide details</i>	
6.0	Power supply : Compressed air	
6.1	Compressed air Pressure & Flow rate <i>Pressure of Compressed air available at our works is 5 to 6 bar. Vendor to select a suitable Air Motor for this compressed air pressure and provide the details on compressed air pressure and flow rate in CFM, required to operate the machine at maximum working range.</i>	
7.0	Bought out items fitted to machine <i>Vendor to provide Technical specification, Brand & Model name of all bought items (Air motor, Gear box, Bearings and other items if any) fitted to the machine</i>	
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