



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

ENQUIRY

NOTICE INVITING TENDER

Phone: +91 431 257 7653
Email : skaruna@bheltry.co.in
Web : www.bhel.com

TWO PART BID

Tender to be submitted in two Parts

Enquiry
Number:

2631700106

Enquiry Date:

05.12.2017

Due date for submission of
quotation:

29.12.2017

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	Mobile Fume Extraction Unit as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or https://eprocure.gov.in/epublish/app)	11 Nos.

Important points to be taken care during submission of offer

1. Delivery terms shall be FOR BHEL Stores, Trichy for indigenous vendors and CFR Chennai Airport / Seaport for foreign vendors.
2. Compliance Form No: TRY/ IMP/ 02 (foreign vendors) and TRY/ IND/ 02A (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 2 months.
4. Erection and commissioning shall be done at BHEL Trichy by the supplier
5. Time period required for Erection and Commissioning shall be 3 weeks from the date of intimation by BHEL
6. EMD applicable for this enquiry is INR 60,000/-
7. 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-EMD), 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 "2631700106".

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


DGM / Capital Equipment / MM

PART - A
QUALIFYING CRITERIA FOR
Mobile Fume Extraction Unit

S.No	BHEL Specification	Vendor's Offer
1.0	QUALIFYING CRITERIA	
1.1	The BIDDER / VENDOR (OEM) shall have atleast THREE Years of Experience in the Design, Manufacture & Supply of "Mobile Fume Extraction units". Vendor must indicate the actual no. of years of experience in the field. In case of Authorized Dealer, Authorization <i>certificate to be provided</i> 	
1.2	Only those vendors (OEMs), who have manufactured, supplied and commissioned at least ONE Mobile Fume extraction system , in the last Five 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 Mobile Fume extraction system 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	Year of launch of the model quoted against this enquiry	
2.3	Number of "Mobile fume extraction systems" supplied and commissioned till date in the quoted model (to quote fume extraction systems 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).	
2.5	Bidder to furnish PO reference and details of Mobile fume extractors if supplied to any of the BHEL units	

Suggestive Format of Performance Certificate:

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

PERFORMANCE CERTIFICATE

- | | | |
|---|--|---------------------------------|
| 1 | Supplier of the equipment | |
| 2 | Make & series of the equipment | |
| 3 | Month & Year of Commissioning | |
| 4 | Application for which equipment is used | |
| 5 | Performance of the equipment
(Strike off whichever is not applicable) | Satisfactory / Not Satisfactory |
| 6 | After sales service
(Strike off whichever is not applicable) | Satisfactory / Not Satisfactory |
| 7 | Any Other remarks | |

Performance certificate issued date:

Signature & Seal of the Authority
Issuing the Performance Certificate

Contact details of issuing authority
Name & Designation:
Office No/ Mobile no:
Email ID:

SPECIFICATION FOR MOBILE FUME EXTRACTION UNIT**PART- B**

Sl No	BHEL REQUIREMENT		Supplier offer
1	PURPOSE: The Fume extraction unit is intended for extracting fumes generated during welding.		
2	PORTABILITY:		
2.1	The equipment should be mobile, mounted on a trolley fitted with swiveling type castor wheels and dragging handles.		
3	FAN and MOTOR:		
3.1	Net extraction capacity at the hood	Minimum 1250 m ³ /hr	
3.2	Unrestricted air flow	2400 m ³ /hr	
3.3	Fan Type	Radial	
3.4	Fan blades and casing	To be sturdy and resistant to heat & chemicals available in the weld fumes	
3.5	Motor capacity	Supplier to specify – Minimum :0.75kW	
3.6	Power supply	415V±10%, 50Hz, 3Ph (3 wire system – without neutral)	
3.7	Speed	Vendor to specify.	
3.8	Noise level	Not to exceed 80dB (A)	
4	FILTER:		
4.1	Filter mechanism	To be suitable for filtering out welding fumes	
	Filters stages	Minimum Two Stage filter: First Stage Filter: - Mainly for filtering out any light weight coarse/fine dust particles etc. - It can be disposable/manual cleaning type - Efficiency 65 to 80% - Vendor to mention the life in terms of cubic metre filtration of air Second stage filter: - For filtering out the fumes to ensure clean air to the shop floor. - Must be self cleaning type. - Efficiency 99.9 % - Vendor to mention the life in terms of cubic metre filtration of air Vendor to provide the details of the filters used in the offered equipment along with the cleaning type	

4.2	Surface area of filtration	Minimum 30 m ²	
4.3	Insulation class & IP of the equipment	Insulation class: F or better Protection class: IP 50 or better	
4.4	Spark arrestor	To be provided	
4.5	Clog indication	Visual/audio indication to be provided to indicate filter clogging / saturation for replacement	
4.6	Capability	To be capable of handling atmospheric conditions with 85% relative humidity	
5	EXTRACTION ARM		
5.1	Flame-retardant flexible extraction arm [360 degree rotation]	Arm length: 3 to 5 meters minimum. Vendor to specify the length.	
5.2	Diameter of the arm	150 to 210 mm (nominal). Vendor to specify the diameter.	
5.3	Nozzle or extraction/suction hood	Different variants suitable for inserting into the bore diameter offered and sucking fumes generated near a welding work centre. Supplier to offer different varieties of nozzles and suction hoods to choose from. To be easily detachable from the arm	
5.4	Material	Suction Hood / Nozzle – to be suitable for withstanding temperatures of 400 deg C max.(Preferably metallic light weight). Vendor to specify the material Arm – to be suitable for withstanding high temperatures of welding fumes and gases	
5.5	Handle	Suitable handle should be provided on suction hood/ nozzle	
5.6	Supports	Supports for the arm to be inbuilt on the arm	
5.7	Arm positioning	Cantilever – supported on the extraction unit and should stay positioned in the desired position	
5.8	Flexibility	Extraction/suction hood to have 360 deg positioning flexibility on its own axis	
		The extraction arm supported on the unit should also have the positioning flexibility – up/down and swivel	
5.9	Metallic Nozzle	If the above offered nozzle in clause 5.4 is not metallic type, additionally a metallic flexible nozzle/bellow (with out cantilever arm) can be offered so as to interchange with the supplied nozzle during continuous temperature applications.	

6	OPTIONAL ACCESSORIES/FEATURES		
6.1	Supplier to offer the following optional accessories/features such as throttle valve, spot light, automatic start / stop switch, Motor protection switch, Thermal cutout etc along with the offer. Each of these accessories/Features shall be individually priced separately.		
7	GENERAL		
7.1	Weight of the full unit	Supplier to specify	
7.2	Enclosure	Enclosure of the entire equipment should be compact and resistant to rusting.	
7.3	Motors	To comply with IEC standards. The motor shall be anyone of the following reputed makes: SIEMENS, ABB, Crompton Greaves (or) its equivalent.	
7.4	Input power supply cable	It shall be of 4 Core, multistrand, flexible copper cable (4 th core for equipment earthing) with a length of approx. 15metres. The cable shall be protected with metallic braided hose to safeguard it from any accidental mechanical damage. The cable shall be from reputed brands like IGUS (or) its equivalent.	
7.5	Consumables	Filter cartridges and list of any other consumables to be specified by the supplier with unit prices.	
7.6	List of Spares for two years of trouble free operation	Spares shall be given with unit price for individual items.	
7.7	O&M manuals	One Hard copy and one soft copy of the detailed O&M manuals in English shall be given along with the original catalogues of bought out items for each equipment	
7.8	Inspection	The equipment shall be offered for inspection prior to dispatch at supplier works.	
7.9	Commissioning	The equipment shall be commissioned by the supplier's representative at BHEL works.	
7.10	Performance Guarantee	The equipment performance shall be guaranteed for a minimum period of twelve months from the date of commissioning.	