



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 7653 Email : skaruna@bheltry.co.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	2631700085	09.11.2017	05.12.2017

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.

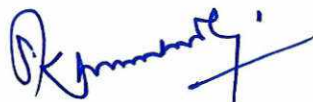
Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14.00 hrs on the Date of **tender opening**.

Item	Description	Quantity
10	Autoclave (Steam Sterilizer) as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or https://eprocure.gov.in/epublish/app)	1 No.

Important points to be taken care during submission of offer

1. Delivery terms shall be FOR BHEL Stores, Trichy for indigenous vendors.
2. Compliance Form No: MM/CE/ TRY/ IND/ 08 to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
3. Delivery period required is 3months from the date of Purchase Order.
4. Erection and commissioning shall be done at BHEL Trichy by the supplier
5. Time period required for Erection and Commissioning shall be 1 week 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 "2631700085".

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
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S. KARUNANIDHY
Dy. General Manager
Capital Equipment / MM
BHEL, Tiruchirappalli - 620 014.

AUTOCLAVE (STEAM STERILIZER), Qty. 1 no.

PART A: QUALIFYING CRITERIA

The BIDDER has to compulsorily meet the Qualifying criteria indicated below to get qualified. Otherwise the technical offer will not be considered.

S NO	DESCRIPTION	VENDOR'S RESPONSE
1	Only those bidder/OEM who have a minimum of last 5 years of experience in design manufacturing and supply of Autoclave/Steam sterilizers are eligible to quote for this tender. The actual no. of years of experience shall be specified	
2	Only those vendors (OEMs) should quote, who have supplied in the last 2 years, at least 2 Nos. of Autoclave/Steam sterilizers to their customers. The name and contact addresses of the customers to whom the machines have been supplied has to be furnished with details. Indicate the number of such welding machines sold in India.	
3	Number of such equipment supplied & commissioned till date.	
4	Bidder has to provide at least one performance certificate from any of the customers to whom they have supplied the offered equipment in the last five years and is working satisfactorily from the date of supply.	
5	Vendor to provide the list of customers in Tamil Nadu or anywhere in India to whom such equipment has been supplied in the last 5 years. Complete contact details of the customers to be provided.	
6	Servicing centres to be available in India. Details on Service-After-Sales Set-Up (preferably in Tamil Nadu), to be furnished.	
7	The Bidder shall assure a continuous support for Spares and Service for the equipment for 10 years.	

Note: 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.

AUTOCLAVE (STEAM STERILIZER), Qty. 1 no.

Part B - Technical Specification

S No	BHEL Specification	Bidder's offer
1	Application: The equipment is intended for sterilisation of operation theatre instruments, linen etc. for our hospital	
2	Type: Horizontal cylindrical steam sterilizer (autoclave)	
3	Control: Automatic PLC controlled. Vendor to specify	
4	Inside dimension of sterilizer chamber: minimum ID 600 mm x depth 1200 mm	
5	Single door of hinged type with heat resistant gasket sealing and spider type/radial locking arrangement having high pressure locking facility and made of good quality SS 304 material. Vendor to confirm and specify	
6	Sterilization cycle: Complete pre-set automatic cycle with manual override	
7	Sterilization cycle: 10-12 minutes rapid sterilization cycle. Vendor to specify	
8	OPTIONAL: programmable sterilization cycle with display. Vendor to specify	
9	Steam generator/boiler volume in Litres to be specified	
10	Steam generator/boiler shall be fitted with Electric heating element of min. 18 kW to produce steam	
11	Float system: Float system for upper and lower water limit of boiler	
12	Autoclave Operating pressure of 1.2 to 2.1 bar & temperature 121 to 134 Deg. C temperature	
13	Digital/Analog displays of Chamber Pressure, temperature, cycle no., alarm indicator, Low water indicator etc. Vendor to specify	
14	Cycle complete alarm: Cycle complete audio visual alarm	
15	Cycle stage indication: Cycle stage indication through LED visual monitoring or a suitable display	
16	Autoclave Chamber, Sterilizer jacket, All connecting pipes to be made of heavy gauge SS 304/316 stainless steel. Vendor to specify	
17	Stand shall be made of Mild steel with anticorrosion paint.	
18	Wall Thickness of the autoclave chamber in mm shall be specified	
19	Thickness of door of autoclave in mm shall be specified	
20	Type of Insulation and thickness in mm on the outside of the autoclave chamber shall be specified	
21	Outer covering over the insulation of SS material. Vendor to specify	
22	Instant filling of the chamber to avoid condensation	

S No	BHEL Specification	Bidder's offer
23	Vacuum pump: water ring cycle vacuum pump for efficient drying output. Vendor to provide details	
24	Steam trap system for better efficiency. Vendor to specify the type of steam trap system.	
25	PLC system: Durable and reliable industrial PLC system. Vendor to specify the make of PLC used	
26	Material Fabrication standard, details of welding and inspection involved in the fabrication of chamber and boiler shell to be specified	
27	Details of Hydrostatic testing of chamber, jacket, steam generator etc. followed as per the relevant standard to be specified	
28	Certification from IBA or any other statutory agency if applicable. Vendor to specify	
29	Pressure release valve: Safety pressure release at around 3.5 bar. Vendor to specify	
30	Temp. Cut off: Safety temperature cut off at around 140 Deg. C. Vendor to specify	
31	High pressure Door locking facility, Low water protection system, Pressure cut off facility and all other necessary safety features to ensure hazard free working environment. Vendor to provide details	
32	Door safety to prevent starting of the process unless the door is closed and to prevent opening of the door when the chamber is in pressurized condition. Vendor to specify	
33	Standards followed in design and manufacturing of the Autoclave chamber, boiler and other peripherals	
34	Overall dimensions of the total unit (LxWxH) in mm to be specified	
35	Quality of Feed water required to be specified	
36	Input power supply: Single phase AC 220 – 230 V or 3 phase AC 440 V, 50 Hz	
37	Bidder to provide list of essential spares required	
38	O&M manual on operation and maintenance aspects of the entire unit in English language (1 set – hard copy)	
39	The equipment shall be offered for pre-despatch inspection by BHEL team at supplier's works	
40	Commissioning of the equipment at BHEL works shall be carried out by suppliers representative	
41	The performance of the equipment shall be guaranteed for a period of 12 months from the date of commissioning or 18 months from despatch whichever is earlier.	