

Our Ref: CL/Chem/ H. Autoclave(12-13 )

Date: 8 May 2013

**Subject:** Invitation of Limited Tender Enquiry for the Supply & Installation of Horizontal Autoclave

Dear Sirs,

1. Technical and Financial Bids are invited for the Supply & Installation of **Horizontal Autoclave**, in **separate SEALED** covers, which should reach the undersigned latest by **1500 h, on 10 June 2013**, at the following address.

**Head (Chemical Laboratory)**  
**BUREAU OF INDIAN STANDARDS**  
**Central Laboratory**  
**Plot No.20/9, Site-IV,**  
**Sahibabad Industrial Area, Sahibabad,**  
**Distt. Ghaziabad-201010 (U.P.), INDIA**

(or)

The sealed Bids can also be dropped in the Tender Box placed at the main gate of BIS Central laboratory from **15.00 h on 8 May 2013** till **15.00 h on 10 June 2013**.

3. The detailed specification of the above mentioned equipment(s)/item(s) are given in **Annex- I**

4. Terms and conditions of supply are given in **Annex-II**

5. The technical Bids shall be opened in the **Conference Hall**, of the Central Lab, at the address mentioned above at **1530 h on 10 June 2013** and in the presence of such tenderers or their duly authorized representatives, who may like to attend.

5. Please note that the envelopes containing Technical & Financials Bids are sealed properly i.e. either wax sealed or with adhesive cello tape on both ends. **Unsigned Bids, Unsealed /stapled envelopes** and bids **without EMD** shall be summarily rejected. **No exemption** whatsoever for payment of EMD shall be accorded. The envelope containing EMD shall be stapled separately with the envelope containing the commercial Bids.

6. The specification and Terms & Conditions can also be downloaded from Central Public Procurement portal **www.eprocure.gov.in** and also from BIS Website – [www.bis.org.in](http://www.bis.org.in) .

Thanking you,

Encls.: **as above**

Yours faithfully,

**Scientist-F & Head (Chemical)**  
Ph: 0120-2770884/4177150  
Email: [clc@bis.org.in](mailto:clc@bis.org.in)

**ANNEXURE - I**  
**EQUIPMENT SPECIFICATION**

**Name of the equipment : HORIZONTAL AUTOCLAVE**

	Features	Requirements
1	Shape	Rectangular
2	Dimensions	600 mm (width) x 600 mm (height) x 900 mm (depth)
3	Capacity	Capacity (Volume) : 325 Ltr. (approx)
4	Construction	<ul style="list-style-type: none"> <li>a) Sterilizer should be triple walled.</li> <li>b) Jacket and Outer Wall - made of thick Stainless Steel Grade 304 (Designation : X04Cr19Ni9).</li> <li>c) Inner Chamber and Door - made of thick Stainless Steel Grade 316 (Designation : X04Cr17Ni12Mo2).</li> <li>d) One Sterilization Tray (removable) should be provided in inner chamber and made of thick Stainless Steel Grade 316 (Designation : X04Cr17Ni12Mo2).</li> <li>e) The steam jacket should be lined on the outer side with glass wool which prevents heat loss.</li> <li>f) The Sterilizer Chamber shall be subjected to hydrostatic test of 1.5 times and the sterilizer jacket to twice the working pressure.</li> </ul>
5	Lid	Provided with radial locking system with self-locking safety door, which should not be opened when the chamber is under pressure
6	Boiler	<ul style="list-style-type: none"> <li>a. Made of thick Stainless Steel plate, suitably located under the sterilizer.</li> <li>b. High grade flanged type heating elements are fitted (preferably ISI marked, water immersion type).</li> <li>c. Load - 12KW.</li> <li>d. It should also be fitted with glass water gauge for checking water level, safety valve, water inlet and drain valves.</li> <li>e. It is also provided with automatic low water level cut off device, Audio visual alarm for low water level and Auto Feed Water System.</li> </ul>
7	Vacuum drying apparatus	For circulation of filtered & sterilized air for complete drying.
8	Control panel	Digital temperature indicator (with calibration certificate traceable to any National or International Standard), MCB, Pilot lamps, relay, etc. mounted on the stand of autoclave for easy operation. Complete with multi port valve.

9	Features	<p>a. Moisture trap fitted in chamber to absorb the condensate automatically to prevent moistening of the subject matter to be sterilized.</p> <p>b. Automatic vacuum breaker to break the vacuum in case of formation of vacuum due to steam condensation.</p> <p>c. A heat resistant Silicon Rubber gasket (joint less) to ensure steam tight fitting.</p> <p>d. The main chamber, jacket and boiler are fitted with pressure gauge with pressure controlled device with calibration certificate traceable to any National or International Standards.</p> <p>e. Separate valve should be provided for evacuating air and steam from inner chamber and from jacket.</p> <p>f. It should be fitted with a plug screen in the discharge line to prevent from chocking</p> <p>g. Two spring loaded safety valves, one each at the chamber and at the boiler level. An additional dead weight safety valve at chamber level is preferable</p> <p>h. The whole unit should be mounted on a tubular stand made of high grade Stainless Steel.</p>
10	Working Condition	<p>a. Pressure controlling device can be adjustable at variable pressure from 5 psi to 20 psi.</p> <p>b. Working sterilization temp : 121°C</p> <p>c. Working sterilization pressure : 15 psi (1.2 Kg/cm<sup>2</sup>)</p>
11	Power supply	440 volt, 3 phase AC supply

**Other Notes:**

1. Warranty for at least 24 months from the date of satisfactory installation and commissioning shall be provided by the manufacturer. Further the manufacturer/supplier should be able to provide after sales services or AMC at the location where instrument has been installed.
2. The supplier shall enclose at least three Performance Certificates from organizations of national repute along with the address and contact number of responsible persons who have been using the instrument for a period of minimum three years.
3. The requirements of any other accessories required for the smooth operation of the instrument are to be mentioned in detail in the bid document.
4. The instrument supplier has to demonstrate the performance of the instrument at the site for the operation and general routine maintenance after installation.
5. Preference will be given to the firm with ISI mark equipment.

**ANNEX-II**  
**BUREAU OF INDIAN STANDARDS**  
**(CENTRAL LABORATORY)**  
**Sahibabad, District Ghaziabad – (UP) INDIA- 201010**

**TERMS & CONDITIONS**

1. The Bidders are requested to give detailed tender in the forms of two bids i.e.  
**Part – A-1 & A-2 Technical Bid** (In the given format with necessary supporting documents)  
**Part - B Financial Bid** ( please see cl. 5 below ).
2. **The Technical & Financial Bids should be sealed and sent separately in sealed envelopes & duly super-scribed (giving Equipment name, technical/financial bid, due date of opening & Ref. No. on the top of the envelope).** Such Bids shall remain valid for a period of 120 days from the date of opening.
3. The Technical Bid [Part A- 1 &A-2 ] should accompany, Manufacturer's name, address and following details :
  - a. Expected life span of equipment and accessories.
  - b. List of pre-installation facilities required for installation and commissioning of equipment and also consumables to be arranged by the Bureau,
  - c. List of the Users in India especially Govt. Labs. /Institutes with complete postal address to whom the similar equipment has been supplied,
  - d. Near locations in Delhi or NCR from where after sales services shall be provided along with the name of Servicing Agent,
  - e. The optional and any other essential items/accessories required for the maintenance of the equipment for the next three years (**Those may be quoted also**).
  - f. Technical Literature of the equipment along with necessary clause wise photograph/drawings, if any
  - g. **Compliance statement vis-à-vis specification clauses, including statement of deviation, if any (Annex-III).**
  - h. **Delivery Period: The delivery of the equipment is required to be made within 45 days of the date of order.** If, it is not possible for you to affect delivery within the period, you are required to specify the date by which you can guarantee delivery of the stores.
  - i. **Warranty:** The equipment is to be given warranty for trouble free performance for a minimum period of two years after Installation and commissioning. The defects, if any, during the warranty period are to be rectified free of charge by arranging free replacement wherever necessary.
  - j. The Bidders are required to furnish the Permanent Account Number (PAN)/TIN of the firm Allotted by the Income Tax Department.

4. Each tender document shall be accompanied with **EMD of 3% of the cost of equipment.** The demand draft for the EMD amount shall be drawn in favour of BUREAU OF INDIAN STANDARDS payable at Ghaziabad. The sealed envelope containing EMD should be super scribed “**EMD**” and **stapled separately with the envelope containing the commercial Bids.**
5. Cost of the items should be mentioned clearly in the **Financial Bid [Part-B]** only. The following details need to be included :
  - a. Price break-up of main equipment and accessories and consumables to be supplied by the party,
  - b. The rates quoted should separately indicate Basic Cost, Excise Duty, Sales Tax, Packing & Forwarding charges, Freight, Insurance, VAT etc. as applicable. In absence of any such stipulation, it will be presumed that the prices include all such charges and no claim for the same shall be entertained. **Form C/D shall not be provided by BIS. Road permit shall be provided by BIS, if required.**
  - c. The Annual Maintenance Contract charges for next three years after the expiry of two years of warranty.
6. BIS shall pay **90%** of the cost after satisfactory installation & commissioning and the Balance of **10% as contract performance security** would be paid after 60 days of completion of warranty period. **In case of foreign suppliers** 100% payment shall be made by an Irrevocable Letter of Credit established in favour of the supplier through the Canara Bank, DDU Marg, New Delhi, for the order value provided an unconditional Performance Bank Guarantee valid till 60 days after the warranty period from a Nationalized Bank for 10% of the order value within 15 days of placement of the order is given to us. The Agency Commission to the Indian Clearing Agent will not be paid by the Bureau. The firm has to arrange for it. BIS shall provide Custom Duty Exemption Certificate at the time of Custom Clearance as well as any applicable Custom Duty.
7. Place of Delivery:

HEAD, CHEMICAL LABORATORY  
BUREAU OF INDIAN STANDARDS  
Central Laboratory, Plot No. 20/9, Site IV,  
Sahibabad Industrial Area, Sahibabad,  
Distt. Ghaziabad – 201010 (U.P.), INDIA
8. Quotations/bids qualified by indefinite expressions such as “Subject to immediate acceptance” etc. and incomplete quotations are liable to be summarily rejected.
9. In case of foreign quotation, the address of Principal / Manufacturer and their Banker’s details should be furnished. The supplier is required to have an import license for the equipment quoted where applicable as per GOI guidelines.
10. All goods shall be inspected by BIS preferably in the presence of supplier or his authorized representative, when the packages are opened in Labs prior to

- installation. The decision of BIS shall be binding. Rejected items/goods/stores shall be removed by the supplier at his own cost and risk, within 30 days of receipt of notice for the removal of such goods, and no liability, whatsoever, on the Bureau shall be attached for the rejected/disapproved goods/items/stores.
11. INSTALLATION: Bidder shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty and thereafter. If the supplier fails to supply, install and commission the system as per specifications mentioned in the order within the due date, the Supplier is liable to pay Penalty of one percent of the value of Purchase Order awarded per every seven days delay, subject to a maximum of 10% of the total value of the order and such money will be deducted from any money due or which may become due to the supplier.
  12. The Bureau reserves the right to accept or reject summarily and/or all tenders in whole or part without assigning any reason whatsoever.
  13. The Date and Time of opening for Part B (Financial Bid) will be intimated only to technically acceptable/qualified tenderers at a later date.
  14. In case of any dispute arising out of this agreement then Competent Authority of BIS shall nominate any officer of the BIS a sole arbitrator to adjudicate upon the issue involved in the dispute and the provisions of the Arbitration Act shall be applicable.
  15. All question, disputes or differences arising under, out of or in connection with this Bid document shall be subject to the exclusive jurisdiction of Delhi/Ghaziabad Court.

**Sc- F & Head (Chemical Laboratory)**  
**Bureau of Indian Standards**  
**Central laboratory**

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**Part A-1 : TECHNICAL BID**

**(Details to be filled & submitted along with supporting documents if any)**

	<b>Features</b>	<b>Requirements</b>	<b>Yes/No</b>
1	Shape	Rectangular	
2	Dimensions	600 mm (width) x 600 mm (height) x 900 mm (depth)	
3	Capacity	Capacity (Volume) : 325 Ltr. (approx)	
4	Construction	<p>a) Sterilizer should be triple walled.</p> <p>b) Jacket and Outer Wall - made of thick Stainless Steel Grade 304 (Designation : X04Cr19Ni9).</p> <p>c) Inner Chamber and Door - made of thick Stainless Steel Grade 316 (Designation : X04Cr17Ni12Mo2).</p> <p>d) One Sterilization Tray (removable) should be provided in inner chamber and made of thick Stainless Steel Grade 316 (Designation : X04Cr17Ni12Mo2).</p> <p>e) The steam jacket should be lined on the outer side with glass wool which prevents heat loss.</p> <p>f) The Sterilizer Chamber shall be subjected to hydrostatic test of 1.5 times and the sterilizer jacket to twice the working pressure.</p>	
5	Lid	Provided with radial locking system with self-locking safety door, which should not be opened when the chamber is under pressure	
6	Boiler	<p>a) Made of thick Stainless Steel plate, suitably located under the sterilizer.</p> <p>b) High grade flanged type heating elements are fitted (preferably ISI marked, water immersion type).</p> <p>c) Load - 12KW.</p> <p>d) It should also be fitted with glass water gauge for checking water level, safety valve, water inlet and drain valves.</p> <p>e) It is also provided with automatic low water level cut off device, Audio visual alarm for low water level and Auto Feed Water System.</p>	

7	Vacuum drying apparatus	For circulation of filtered & sterilized air for complete drying.		
8	Control panel	Digital temperature indicator (with calibration certificate traceable to any National or International Standard), MCB, Pilot lamps, relay, etc. mounted on the stand of autoclave for easy operation. Complete with multi port valve.		
9	Features	<p>a) Moisture trap fitted in chamber to absorb the condensate automatically to prevent moistening of the subject matter to be sterilized.</p> <p>b) Automatic vacuum breaker to break the vacuum in case of formation of vacuum due to steam condensation.</p> <p>c) A heat resistant Silicon Rubber gasket (joint less) to ensure steam tight fitting.</p> <p>d) The main chamber, jacket and boiler are fitted with pressure gauge with pressure controlled device with calibration certificate traceable to any National or International Standards.</p> <p>e) Separate valve should be provided for evacuating air and steam from inner chamber and from jacket.</p> <p>f) It should be fitted with a plug screen in the discharge line to prevent from chocking</p> <p>g) Two spring loaded safety valves, one each at the chamber and at the boiler level. An additional dead weight safety valve at chamber level is preferable</p> <p>h) The whole unit should be mounted on a tubular stand made of high grade Stainless Steel.</p>		
10	Working Condition	<p>a) Pressure Controlling device can be adjustable at variable pressure from 5 psi to 20 psi.</p> <p>b) Working sterilization temp : 121°C</p> <p>c) Working sterilization pressure : 15 psi (1.2 Kg/cm<sup>2</sup>)</p>		
11	Power supply	440 volt, 3 phase AC supply		

(Authorized signatory)

Name :

Designation:

Company Stamp

**Part A-2 : TECHNICAL BID**

**(Details to be filled & submitted along with supporting documents if any)**

S.No	Specified requirements as per tender document	Yes/No
1	The Technical & Financial Bids should be sealed and sent separately in sealed envelopes & duly super-scribed (giving Equipment name, technical/financial bid, due date of opening & Ref. No. on the top of the envelope)	
2	The sealed envelope containing EMD should be super scribed “EMD” and stapled separately with the envelope containing the commercial Bids.	
3	Complete specification, Manufacturer’s name, address and following details : a.Expected life span of equipment and accessories. b.List of pre-installation facilities required for installation and commissioning of equipment and also consumables to be arranged by the Bureau, c.List of the Users in India especially Govt. Labs. /Institutes with complete postal address to whom the similar equipment has been supplied, d.Near locations in Delhi/NCR from where after sales services shall be provided along with the name of Servicing Agent,	
4	Technical Literature of the equipment along with necessary clause wise photograph/drawings, if any	
5	Compliance statement vis-à-vis specification clauses, including statement of deviation, if any (Annex-III)	
6	<b>Warranty:</b> The equipment is to be guaranteed for trouble free performance for a <b>minimum period of two year after commissioning</b> . The defects, if any, during the warranty period are to be rectified free of charge by arranging free replacement wherever necessary.	
7	The Bidders are required to furnish the Permanent Account Number (PAN)/TIN of the firm Allotted by the Income Tax Department	
8	In case of foreign quotation, the address of Principal / Manufacturer and their Banker’s details should be furnished. The supplier is required to have an import license for the equipment quoted where applicable as per GOI guidelines	
9	<b>INSTALLATION:</b> Bidder shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty and thereafter. If the supplier fails to supply, install and commission the system as per specifications mentioned in the order within the due date, the Supplier is liable to pay Penalty of one percent of the value of Purchase Order awarded per every seven days delay, subject to a maximum of 10% of the total value of the order and such money will be deducted from any money due or which may become due to the supplier.	
10	Signed and stamped all the pages of the tender document	

(Authorized signatory)

Name :

Designation:

Company Stamp

### **Annex- III**

#### **DEVIATION STATEMENT FORM**

- 1) The following are the particulars of deviations from the requirements of the tender document and specifications:

<b>SPECIFICATION CLAUSE</b>	<b>DEVIATION</b>	<b>REMARKS (INCLUDING JUSTIFICATION)</b>

**PLACE:**

**DATE:**

**SEAL & SIGNATURE OF BIDDER**

**NOTE: 1. Where there is no deviation; the statement should be returned duly signed an endorsement indicating “No Deviations”.**

## **ANNEX-IV**

### PERFORMANCE SECURITY FORM

To \_\_\_\_\_ (Name of Purchaser)

**WHEREAS** \_\_\_\_\_ (Name of supplier)  
Hereinafter called "the Supplier" has undertaken, in pursuance of Contract No. \_\_\_\_\_  
dated \_\_\_\_\_ 2013 to supply \_\_\_\_\_ (Description  
of Goods and Services) hereinafter called "the Contract".

**AND WHEREAS** it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a Nationalized Bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the Contract.

**AND WHEREAS** we have agreed to give the Supplier a Guarantee:

**THEREFORE WE** hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of \_\_\_\_\_ (Amount of the Guarantee in Words and Figures) and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limit of \_\_\_\_\_ (Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the \_\_\_\_\_ day of \_\_\_\_\_ 2013.

Signature and Seal of Guarantors

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Date ----- 2013

Address -----

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