

Indian Institute of Technology - Kanpur
Department of Biological Sciences & Bioengineering

Enquiry Number: **BSBE/EAF/2017-18/1**, dated: 18-06-2018

Sub.: Inquiry for the supply of “Double door large volume autoclave”

Opening date: 19-06-2018; 10 AM

Closing date: 09-07-2018; 5 PM

Sealed quotes (technical bid and price bid separately sealed) are invited for **TWO Double door autoclaves** as per the specifications given in the next page. **Technical bid will be opened only for eligible bidders (Supporting documents for Eligibility criteria presented below should be submitted in envelop A).**

Price bid will be opened only for technically qualified eligible bidders.

***Your quote should mention/include the following:**

- Maximum discount if any should be offered and mentioned.
- Quoted price should include the cost of delivery, installation, warranty and required accessories (see below).
- Validity of the quote at least for 90 days.
- FOB (indicating port of shipment) and CIF (New Delhi) values should be quoted separately if import is required. For quotes in INR, the price quote should be for delivery at IIT Kanpur.
- The quote should cover insurance for transport up to IIT Kanpur.
- Indian agency commission if applicable (should be certified by the principal if no agency commission is applicable) in case of import.
- Authorization certificate from the principal if you are a local agent.
- The bidder must provide undertaking declaring servicing of the autoclave(s) within 48 hours of lodging complaint/service request. Failing to honor this undertaking may result in forfeiture of the Performance Bank Guarantee.
- Terms and conditions for the payment, including the banker's name of the principal and the account number, if any, for electronic transfer.
- Include proprietary item certificate if applicable.
- Technical literature to support your product (in technical bid).
- Complete user list with the unit details and the user contact details.

The quote should reach the undersigned on or before 5 pm on or before 09-07-2018 By submission of a bid, the bidder agrees to comply with all the terms and conditions of IIT Kanpur for the subject tender. The envelope should be marked as **“Quote for the supply of double door large volume autoclave”**

To,
Dr Amitabha Bandyopadhyay Lab # 10,
Department of Biological Sciences & Bioengineering Indian Institute of Technology,
Kanpur 208016 (UP)

For any query, contact: Dr Amitabha Bandyopadhyay
Department of Biological Sciences & Bioengineering Indian Institute of Technology,
Kanpur 208016 (UP), Ph: 0512-259-4055

FULLY AUTOMATIC MICROPROCESSOR CONTROLLED HIGH PRESSURE & HIGH VACUUM STEAM STERILIZER RECTANGULAR – Double Door, ISI Marked IS:3829 Part I

ELIGIBILITY CRITERIA

Following documents are required to be submitted in **Envelop A** otherwise the offer shall be liable for rejection.

1. The bidder shall provide exclusive company profile including necessary certificates / license for manufacture the product from DGTD / SSI/SIA etc.
2. Enclose copy of **PAN CARD** of the firm.
3. Enclose copy of valid **GST Registration certificate**
4. Enclose original copy of Earnest Money Deposit (EMD) of Rs. 1,00,000/- (Rs. One Lakh Only) in the form of Demand Draft in the favour of "Registrar, IIT Kanpur" 'payable at Kanpur.' Original copy of the DD should be submitted.
5. The Bidder must not be blacklisted/ Suspended or having service related dispute with any Govt. Organizations or Bank in India or outside India or any litigation pending. Mentioned in Annexure A-1.
6. Enclose Power of Attorney mentioned in Annexure A-2
7. The bidder's Annual Business Turnover for last two financial years i.e. 2016-17 & 2017-18 should not be less than Rs. 2 crores for each of the individual Financial Years (Enclose supporting document).
8. The bidder should have submitted filed ITR for last two years i.e. A.Y. 2017-18 & A.Y. 2018-19. (Enclose copy of Acknowledgments.).
9. The bidder **MUST** have ISI License, IS : 3829 Part I & CE Mark. They should also have ISO 9001: 2015, ISO 13485 : 2012 as well as WHO-GMP certification (Enclose supporting document).

Technical criteria (To be submitted in Envelop B)

Construction:

- Chamber rectangular shape constructed of heavy duty stainless steel 304 door and jacket of stainless steel 304
- Pipes and fittings of stainless steel and bronze, the valves are ball type. Sterilizer is mounted on a M.S sturdy stand. Outside front paneling is made of S.S to give elegant look. All other construction details are as per IS 3829 Part 1.

Design:

- Autoclave should be designed and manufactured as per international standard. Manufacturer **MUST** have ISI License, IS : 3829 Part I & CE Mark. They should also have ISO 9001: 2015, ISO 13485 : 2012 as well as WHO-GMP certification.
- **Size: 600mm x 900mm x 1500mm 36 kw**
- Chamber of the autoclave is tested for hydraulic test pressure, performance as per BS & IS standards.
- Working pressure of autoclave is from 1.2 to 2.1 kg. cm² and vacuum upto 26"HG (with built in vacuum pump arrangement).
- Door gasket is expansion type silicon and jointless.
- The heating system provided is energy efficient and reduces running cost to great extent.

Pulsating Deep Vacuum:

- High efficiency vacuum pump for mechanical air removal for excellent steam penetration even in fabric loads.
- Post sterilization vacuum drying treatment to ensure the load is dry on unloading.

Door

- Double door model - hinged doors. Stainless steel contact parts and temperature resistant silicon rubber gasket.

Should have following safety features:

- Door safety to prevent starting of the process unless the door is closed and opening of the door when the chamber is pressurized (optional).
- Insulated chamber to avoid scalding to the operator.
- Safety valves for over-pressure safety.
- Pressure vessels hydro-tested for maximum quality assurance.
- Provided with two locks one automatic and another manual. The automatic lock operates when pressure gauge reads 0.30-0.37kg/cm² in the chamber
- Accurate in sterilization time and temperature.
- Door interlocks in case of double door sterilizer.
- Over heat protection
- Excess pressure safety valve.
- Self Diagnosis fault message.
- Safety against electric overload.
- Visual and audio alarm for easy operation.
- Process online print for records.
- Assured sterilization followed by complete drying of load.

Sources of Steam Generation:

- Electricity operated

Steam Generator:

- A stainless steel electric boiler under the shell with interconnecting steam pipes with 3/6 KW immersion heaters mounted on stainless steel plate and electric controls comprise of an air break contractor, automatic pressure controller, low water protection. Additionally provided with one independent spring - loaded safety valve and a pressure gauge. Boiler also incorporates a gauge glass assembly with protector, water drain and water inlet valves.

Should have the following features:

- Two Nos. mechanical ejectors
- Self Sterilizing vacuum drier
- Safety valve spring loaded and vacuum breaker
- Screen plug and Dial Thermometer for chamber's discharge line with steam trap and swing check valve
- Manual single point operation to operate manually as per IS 3829 Part I in case fully automatic microprocessor control fails or user wants to by-pass the automatic control.
- Door safety - when the chamber is under pressure self locking device automatically locks and unlocks when chamber pressure falls below 0.35 k.g./cm².
- Built in steam generator made of S.S. 304 with Low water cut out water level indicator self locking gauge glass valve.
- The equipment is provided with S.S. 304 railing and carriage with MS Trolley (Optional).
- Provided with settable, vacuum system, low water cut off system.
- Suitable to run on inbuilt electric Boiler as well as from centralised steam supply available near to equipment @ 2.1 to 2.5 kg/cm²
- Working temperature 134o C.

Automatic Process Control:

- Microprocessor based programmable logic controller is used to control the Process. Manual operation is also provided to avoid inconvenience in case of automation failure (Optional).

Programs:

- Liquid cycle at 121°C
- Instrument Cycle 134°C
- Pre-Vacuum pulsating cycle
- Vacuum Leak Test.
- Bowie Test
- Flexible cycle from 105 to 134°C to suit user requirement.
- Suitable to work on 440 volt 3 phase 50 Hz.

Desired credentials of and declarations from the vendor:

- Bidder/Manufacturer should have supplied >100 units of **the quoted item** throughout India in last five (05) years, of which 5 **MUST** to reputed Govt. of India Institutes. Kindly provide contact details incl. email id, address, Tel No. etc., of contact persons of these institutions. Kindly attach documents in support.
- The bidders should submit a notarized affidavit that they have not quoted a rate for the same unit lesser than the one mentioned in their offer being submitted, to any government or semi-government organization.

Warranty

- **Minimum warranty of FIVE years.**

AWARD OF CONTRACT:

1. Price bid should be submitted in **Envelop C**. Envelop C will be opened only for technically qualified bids.

2. Only L1 supplier from among the eligible and technically qualified bids will be awarded the contract.
3. The financial evaluation of the bidding shall be done on the basis of the cost of the instruments including 01 year's warranty and 04 year's maintenance charges.
4. The technical specifications of the equipment should be furnished.
5. The equipment offered should necessarily contain a guarantee for its trouble free performance for a period of one year from the date of installation and service guarantee within 48 hours of report of problem/service request for the next 04 years.
6. The offer should clearly mention make, name of the manufacturer, detailed specifications, detailed literature about the equipment/ circuit diagram/drawing of the mechanism and any other information relevant to the equipment. For any printing error/ mistake in final bid will be the responsibility of the bidder and no correspondence will be entertained by IIT Kanpur in future.
7. The bidder should furnish details of supplies – **of the quoted item** - made by it to important institutions, along with performance certificate, during last FIVE years [Users' list].
8. The firm / manufacturer submitting the offer shall only quote for one most suitable model of the offered equipment whose specification matches the stated specifications. No alternate offers shall be considered and, if submitted, the offer shall be rejected.
9. The specifications are clearly mentioned in the document and the Bidder is requested to submit Bid only if their offer strictly comply with these specifications. Please note that no deviation in the required specification will be permitted. The bidding for the instruments having different specification will be on Bidder's risk as the Board will not entertain such Bids.

EARNEST MONEY DEPOSIT & SECURITY DEPOSIT:

While submitting bid, the BIDDER shall deposit an amount mentioned in tender document as Earnest Money, with IITK through the following instruments:

1. Earnest Money Deposit (EMD) of Rs. 1,00,000/- (Rs. One lakh Only) in the form of Demand Draft in favour of 'Registrar, IIT Kanpur' payable at Kanpur to be submitted in **Envelop A**. Failing which, submitted bid will be rejected.
2. EMD of unsuccessful bidders will be returned within 30 days after the award of the contract.
3. The successful bidder shall have to submit 5% amount of the total contract value as performance security in the form of Bank Guarantee. The bank guarantee shall be retained till the expiry of the warranty period and guarantee should be valid till the expiry of the warranty period.
4. EMD of a tenderer will be forfeited, if the tenderer withdraws or amends its tender or derogates from the tender in any respect within the period of validity of its tender. Further, if the successful tenderer fails to furnish the required performance security within the specified period, its EMD will be forfeited.

TERMS OF PAYMENT:

90% of the cost of instrument shall be paid after receipt of the material by consignee and balance 10% payment shall be released only after satisfactory installation and demonstration of the instruments at the Institute Animal House of IIT Kanpur.

PENALTY:

In the event of any breach of any of the terms & conditions of the contract or bidder neglects, delays or fails to perform the contract, IITK reserves the right to forfeit the security deposit. The security deposit shall not bear any interest.

ANNEXURE A-1: DECLARATION REGARDING CLEAN TRACK

Declaration of Clean Track Record (On Company / firm's Letterhead)

To,
Chairman, Purchase Committee
Lab No. 10
BSBE Department
IIT Kanpur, 208016

Date:

Sir,

Re: Tender No. BSBE/EAF/2017-18/1, dated: 18-06-2018 for “Double door large volume autoclave”.

I/we carefully gone through the Terms & Conditions contained in the above referred Tender. I/we hereby declare that my company / firm is not currently debarred / black listed/convicted by any Government / Semi Government Organizations / Institutions in India . I/we further certify that I'm competent officer in my company /firm to make this declaration.

Or

I/we declare the following

No.	Country in which the company is debarred / blacklisted / case is pending	Black listed / debarred by Government / Semi Government Organizations / Institutions	Reason	Since when and for how long

(NOTE : In case the company / firm was blacklisted previously, please provide the details regarding Period for which the company / firm was blacklisted and the reason/s for the same)

Yours faithfully

(Signature of the bidder)

Printed Name

Designation

Seal

Date :

Business Address :

ANNEXURE A-2: FORMAT FOR POWER OF ATTORNEY

(To be provided in original On Company / firm's Letterhead as part of **Envelope-A**)

Dated: _____

POWER OF ATTORNEY

To Whomsoever It May Concern

Know all men by these presents, we _____ (name and registered office address of the Bidder) do hereby constitute, appoint and authorize Mr. _____ (Name of the Person(s)), domiciled at _____ (Address), acting as _____ (Designation and the name of the firm), as Authorized Signatory and whose signature is attested below, as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our Proposal for –Selection of Vendor to supply **Double door large volume autoclave**, vide Invitation for Tender **BSBE/EAF/2017-18/1**, dated: DD-MM-YYYY, issued by Indian Institute of Technology Kanpur, including signing and submission of all documents and providing information and responses to clarifications / enquiries etc. as may be required by Indian Institute of Technology Kanpur or any governmental authority, representing us in all matters before Indian Institute of Technology Kanpur, and generally dealing with IITK in all matters in connection with our Proposal for the said supply.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

For -----

(Signature)

(Name, Title and Address)

Accept (Attested signature of Mr. _____)
(Name, Title and Address of the Attorney)

Notes: - To be executed by the Bidder - The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.

Also, wherever required, the executant(s) should submit for verification the extract of the charter documents and documents such as a resolution / power of attorney in favour of the Person executing this Power of Attorney for the delegation of power hereunder on behalf of the executants(s).