



## **TENDER NOTICE**

# **NATIONAL CENTRE FOR NANOSCIENCE AND NANOTECHNOLOGY (NCNN); UNIVERSITY OF MUMBAI**

Vidyanagri, Santacruz (E), Mumbai 4000 098  
Tel:9892296635 Email: director@nano.mu.ac.in

**Ref No: NCNNUM/295/2021    Date:15/03/2021**  
**Name of Work: Purchase and installment of Autoclave-1**



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**Tender Notice: NCNNUM/295/2021**

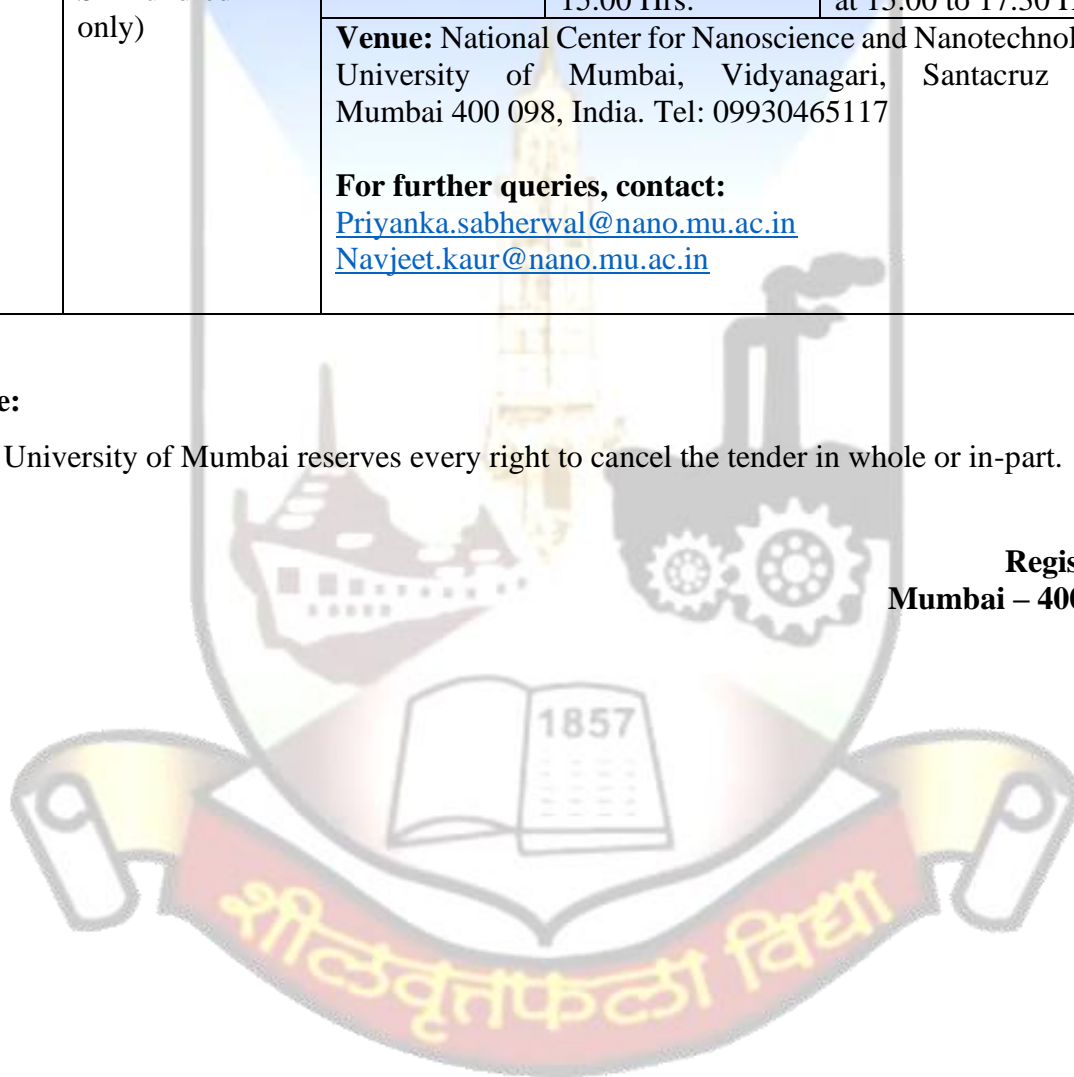
University of Mumbai invited Online-Tender for Purchase of **Autoclave-1** required to carry out research and development activities at Integrated Centre for Research Diagnostics and Cure of Covid and other Viral Diseases (ICRDCVD) located at NCNN.

Sr.No.	EMD in (Rs.)	Validity of e-tender	Last date of submission	Technical bid opening date & time
1.	Rs. 600/- (Rs. Six hundred only)	7 Days	21-03-2021 15.00 Hrs.	22-03-2021 at 15.00 to 17.30 Hrs.
<b>Venue:</b> National Center for Nanoscience and Nanotechnology, University of Mumbai, Vidyanaagari, Santacruz (E), Mumbai 400 098, India. Tel: 09930465117				
<b>For further queries, contact:</b> <a href="mailto:Priyanka.sabherwal@nano.mu.ac.in">Priyanka.sabherwal@nano.mu.ac.in</a> <a href="mailto:Navjeet.kaur@nano.mu.ac.in">Navjeet.kaur@nano.mu.ac.in</a>				

**Note:**

The University of Mumbai reserves every right to cancel the tender in whole or in-part.

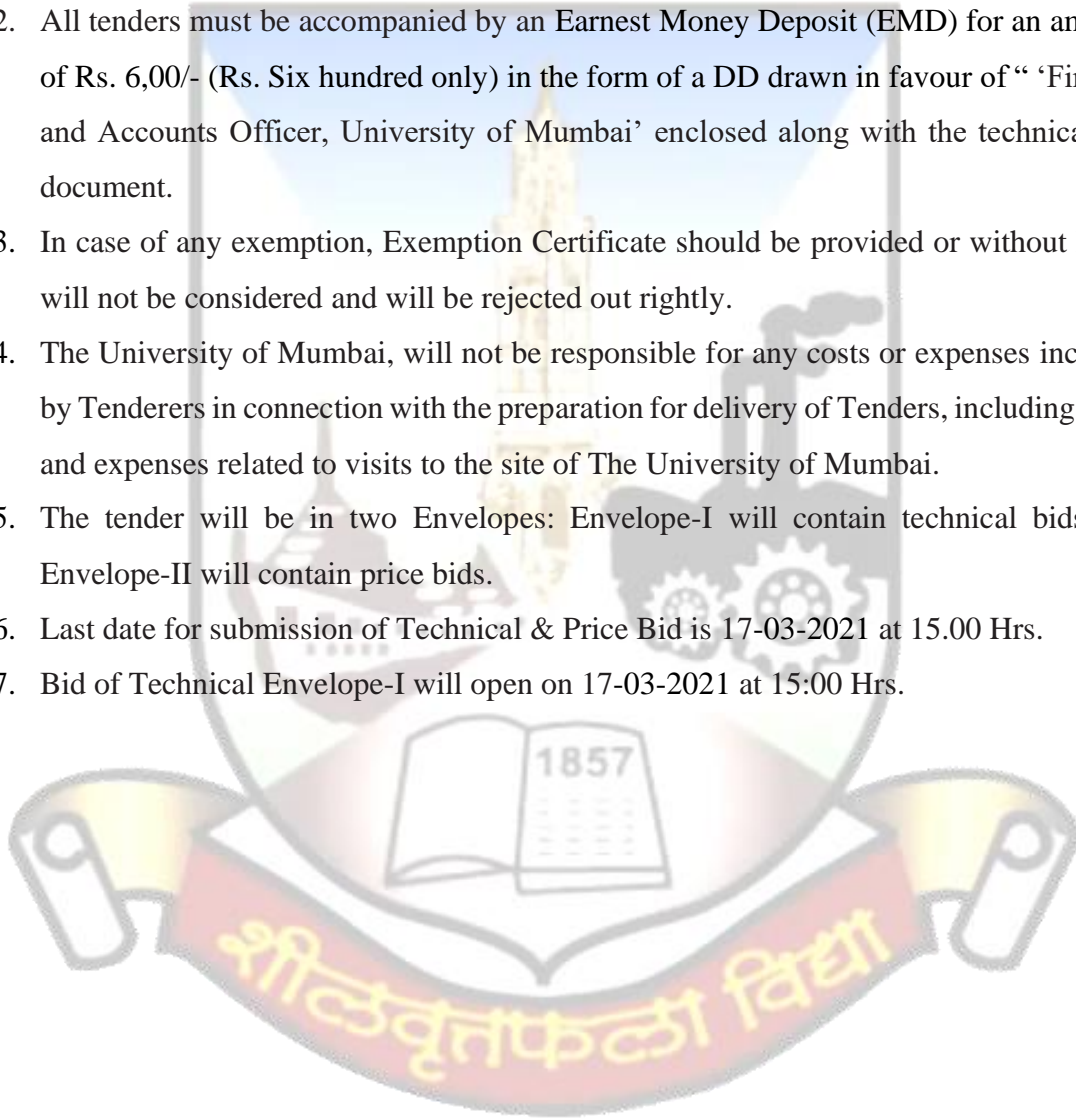
**Sd/-  
Registrar  
Mumbai – 400032.**





## Invitation of Tenders

1. The University of Mumbai, invites online tenders for Purchase of **Autoclave-1** to carry out research and development activities at the Integrated Center for Research Diagnostics and Cure of Covid and other Viral Diseases (ICRDCVD) located at NCNN. Detailed terms and conditions and schedule of the goods/materials are provided in the tender documents.
2. All tenders must be accompanied by an Earnest Money Deposit (EMD) for an amount of Rs. 6,00/- (Rs. Six hundred only) in the form of a DD drawn in favour of “ ‘Finance and Accounts Officer, University of Mumbai’ enclosed along with the technical bid document.
3. In case of any exemption, Exemption Certificate should be provided or without EMD will not be considered and will be rejected out rightly.
4. The University of Mumbai, will not be responsible for any costs or expenses incurred by Tenderers in connection with the preparation for delivery of Tenders, including costs and expenses related to visits to the site of The University of Mumbai.
5. The tender will be in two Envelopes: Envelope-I will contain technical bids and Envelope-II will contain price bids.
6. Last date for submission of Technical & Price Bid is 17-03-2021 at 15.00 Hrs.
7. Bid of Technical Envelope-I will open on 17-03-2021 at 15:00 Hrs.



**Schedule of e-Tender**

<b>Sr. No.</b>	<b>Stage</b>	<b>Start Date &amp; Time</b>	<b>Expiry Date &amp; Time</b>	<b>Envelopes</b>
1.	Close for Technical Bid	21-03-21 15:00 Hrs	21-03-21 17:30 Hrs	Envelope-1
2.	Close for Financial Bid	21-03-21 15:00 Hrs	21-03-21 17:30 Hrs	Envelope-2
3.	Opening technical bids	22-03-21 15:00 Hrs	22-03-21 17:30 Hrs	Envelope-1
4.	Opening financial bids	22-03-21 15:00 Hrs	22-03-21 17:30 Hrs	Envelope-2





## Part A-Terms and Conditions

### **Envelope No.1** (Technical Bid)

#### **Terms and Conditions of Supply:**

1. Tenderer /Bidders shall submit the following documents along with their tender and be placed in the **Technical Bid Envelope (i.e. Envelope No. 1)**.
  - a. Income-Tax clear certificate from the Income-Tax Officer concerned, certifying that the tenderer has cleared all the Income –Tax dues.
  - b. Tenderers should be either manufacturer or authorized dealer of the said material/accessories and should submit the proof for the same. Also, the Tenderers should state whether they are a Proprietary Firm, Partnership Firm or a Private/Public Limited Company and furnish the proof of the same. If the tenderer is a partnership firm, the necessary partnership deed, disclosing the names of all partners and their interest in the firm shall be enclosed.
  - c. Tenderer should enclose the list of at least 5 names of the organizations and laboratories to which similar equipment / accessories have supplied in the last 5 years within India and a certificate to the effect that the performance of the supplied equipment was satisfactory.
  - d. GST Registration No.
  - e. Technical specifications offered by the Supplier supported by Authentic printed technical brochure of the particular model offered.
  - f. Technical compliance table
  - g. Proprietary certificate
  - h. The authority to sign a tender document shall be submitted invariably by the tenderer.
  - i. Affidavit on Rs. 500 Stamp Paper
  - j. Declaration on Stamp Paper as per format given in the tender document.
  - k. The names of the organizations and the offices to which similar supplies have been made.
  - l. OEM should have direct service personnel within Mumbai. Contact Details of Engineers should be furnished



- m.** Vendor must submit a Compliance statement in tabular form comparing each specification of the quoted item with that given in the Tender Document part B.
2. Bidders should read carefully all the instructions and terms and conditions, etc. before registering the prescribed schedule of the tender. Price registering in the schedule of price to tender should be inclusive of all taxes and duties.
  3. The offers made by the Tenderers shall be valid for 120 days after the last date of submission of tender.
  4. The Technical documents shall be opened on a schedule and venue to be arranged later, for those bids for which minimum three Bidders have participated. The tenderers or their authorized representatives shall be allowed to be present at the time of opening of the tenders. Financial bids of only qualified tenderers shall be opened. The date and time of opening the financial bids shall be announced after opening and evaluating all the Technical bids.
  5. In case of imported items/accessories, the rates should be quoted in the light of exemptions enjoyed by educational institutions. Universities exempted from the payment of Octroi and the necessary certificate/form can be issued by the University.
  6. Technical specifications of the Material/Accessories are given in Annexure to these papers i.e. **Part B.**
  7. If the supplier fails to deliver the article as per the delivery schedule, the University of Mumbai shall be free to procure the balance/undelivered supply, at the risk and cost of the supplier, from other such suppliers.
  8. The goods, accessories, materials equipment supplied by the supplier shall be accepted after inspection by an officer authorized by the competent authority. No accessories/materials which do not conform to the specifications laid down in the terms and conditions or damaged in transit accepted.
  9. The bills of the suppliers shall be paid by the University after all the materials/Accessories have been received inspected and found in good condition as mentioned above.
  10. Vendor must submit a compliance statement in tabular form comparing each specification of the quoted item with the given in the Tender Document part-B.
  11. As the suppliers shall be responsible for the supply and installation (wherever necessary) of equipment at Mumbai, the cost towards insurance until destination in the University, shall be borne by suppliers.

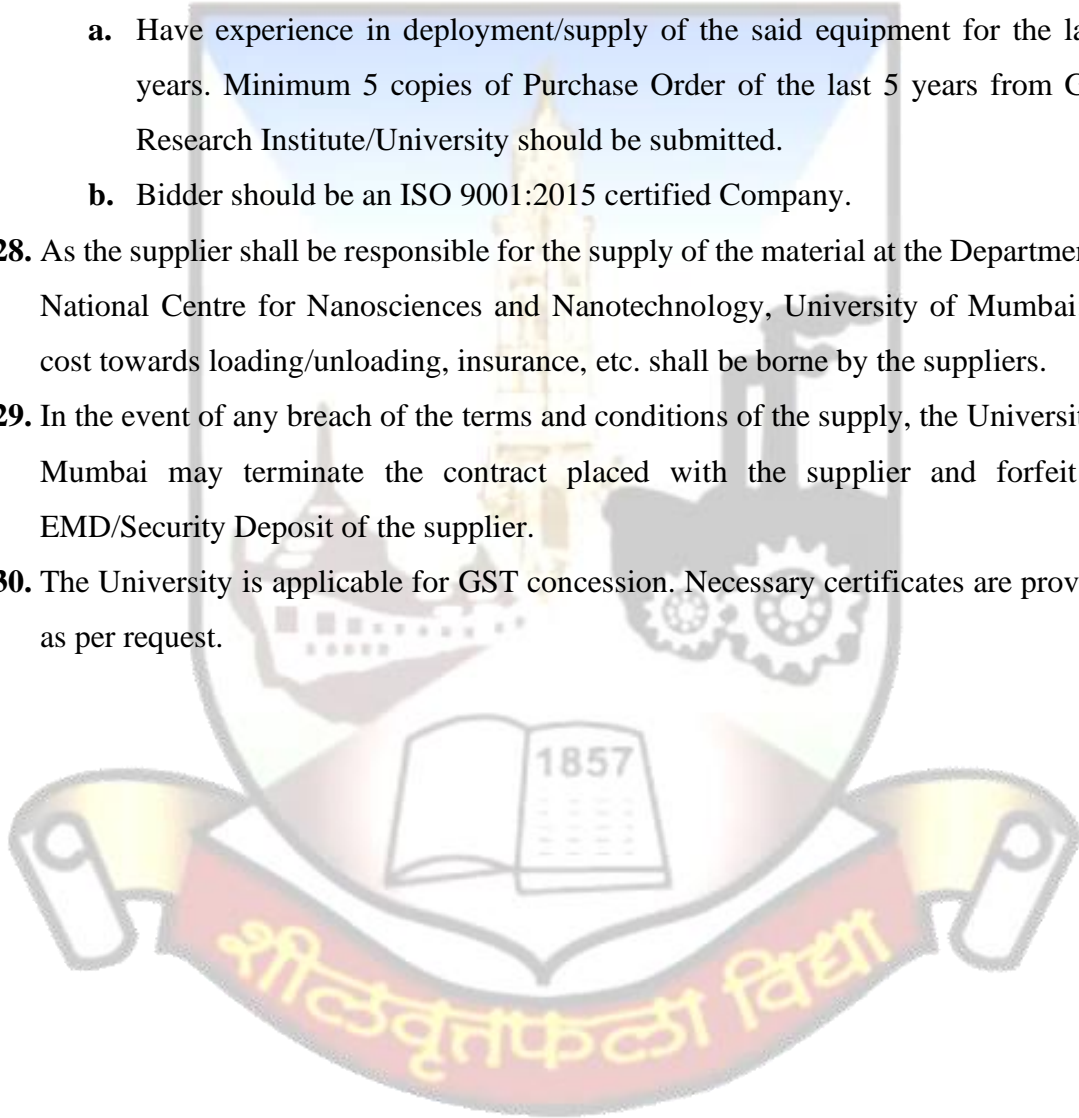


12. In the event of any breach of the terms and conditions of the supply, the University of Mumbai may terminate the contract placed with the supplier, for it the security deposit of the supplier and make alternative arrangements for procurement of supplies at the risk and cost of supplier.
13. Proprietary certificate, if any, should be included in the Technical bid.
14. The Conditional offers are liable to be summarily rejected.
15. Right to reject any or all tenders without assigning any reason therefore are reserved by the University of Mumbai.
16. The payment shall be made after successful installation within a reasonable period as per the University of Mumbai rules and procedures.
17. In case of successful tenderers the amount of Earnest Money Deposit shall be converted into Security Deposit / Performance Guarantee and shall be refunded after the warranty period is over.
18. Suppliers should read carefully all the instructions and terms and conditions, etc., before registering rates in the prescribed schedule of the tender. Taxes and duties etc. should be shown separately.
19. The offers made by the suppliers shall be open for acceptance for 120 days after the last date of submission of tender.
20. The quotation shall be opened by the committee members as constituted by the University of Mumbai norms. The bidders or their authorized representatives shall be allowed to be present at the time of opening of the tenders.
21. In case of imported items / accessories the rates should be quoted in the light of exemptions as applicable for educational institutions. The University is exempted from payment of Customs/Excise duty, Octroi; and the necessary certificates / forms can be issued by the University.
22. Technical specifications of the items / Accessories are given in the Annexure of these papers (Part B).
23. The delivery time of items / Accessories should be clearly mentioned in the tender. No extension shall be granted to the vendors / suppliers for the period of delivery mentioned in the tender, under any circumstances.
24. If the supplier fails to deliver the article as per the delivery schedule, the University of Mumbai shall be free to procure the balance / undelivered supply, at the risk and cost of such supplier.





25. The goods, article, material supplied by the vendor shall be accepted after inspection by an officer authorized by the competent authority. No items / Accessories which do not conform to the specifications laid down in the terms and conditions or damaged in transit or otherwise, shall be accepted.
26. The bills of the suppliers shall be paid by the University after all the items / Accessories equipment have been received, inspected as above.
27. The vendor/bidder should:
  - a. Have experience in deployment/supply of the said equipment for the last 5 years. Minimum 5 copies of Purchase Order of the last 5 years from Govt. Research Institute/University should be submitted.
  - b. Bidder should be an ISO 9001:2015 certified Company.
28. As the supplier shall be responsible for the supply of the material at the Department of National Centre for Nanosciences and Nanotechnology, University of Mumbai; the cost towards loading/unloading, insurance, etc. shall be borne by the suppliers.
29. In the event of any breach of the terms and conditions of the supply, the University of Mumbai may terminate the contract placed with the supplier and forfeit the EMD/Security Deposit of the supplier.
30. The University is applicable for GST concession. Necessary certificates are provided as per request.

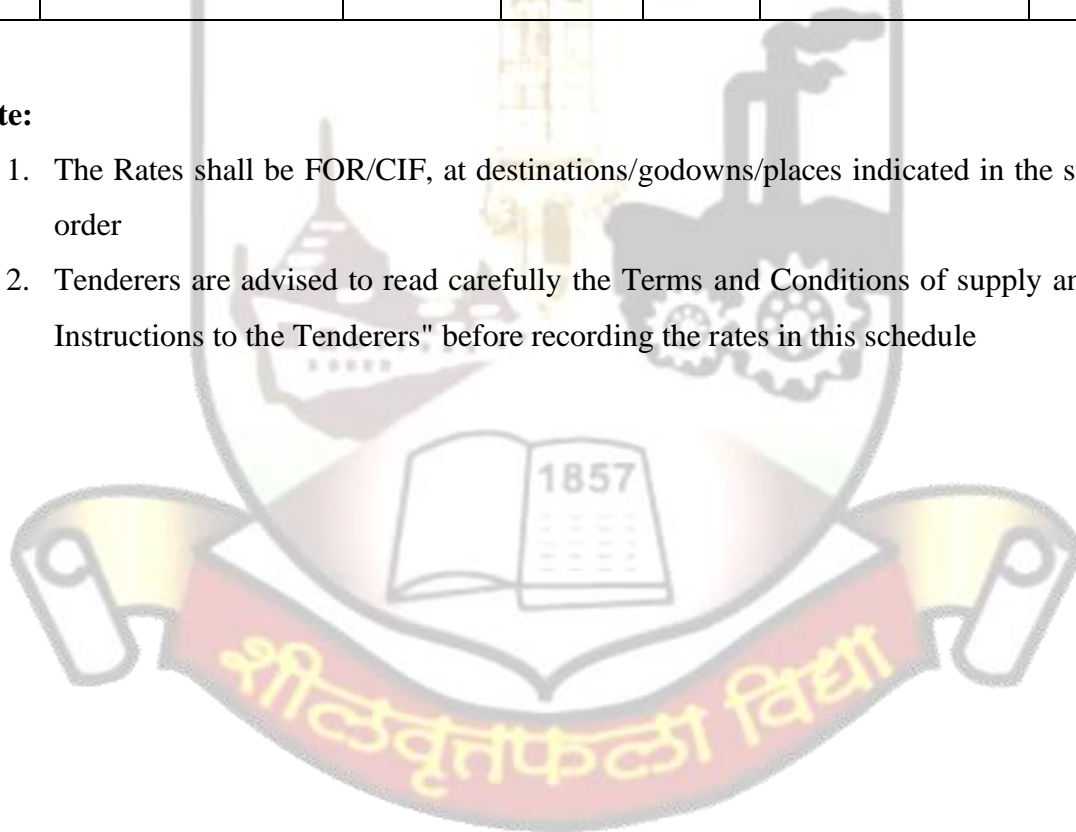


**Annexure: Part B – Specifications****Envelope No.2**  
(Financial/Price Bid)**Tabulated bidding details:**

Item no	Description of goods with details of specifications	Number/ quantity	Price/ Rate per Unit (in Rs.)	GST per unit (in Rs.)	Any other charges per unit as per Government Rule (in Rs.)	Total Cost (in Rs.)
1	<b>Purchase Autoclave-1 (Details as per tender specifications)</b>					

**Note:**

1. The Rates shall be FOR/CIF, at destinations/godowns/places indicated in the supply order
2. Tenderers are advised to read carefully the Terms and Conditions of supply and the Instructions to the Tenderers" before recording the rates in this schedule





## Technical Specifications for Autoclave-1

### Specifications:

1. Capacity: 20-35 ltrs
2. Pressure: 2.0 Kg/ cm<sup>2</sup> at 130 o C
3. Power input to be 440 VAC, 3-phase, 50Hz.
4. Pressure gauge: 0-4 Kg/ cm<sup>2</sup>
5. Temperature accuracy:  $\pm 0.5$  o C
6. Sterilization Temperature: Ambient 10 o C -130 o C
7. Sterilization time range: 0-9hours
8. Horizontal rectangular high pressure automatic steam sterilizer
9. The unit should be provided with an LED/LCD display microprocessor based control panel for controlling the entire cycle of sterilization and steam pulsing automatically.
10. Sterilization chamber, doors and jacket should be made of high quality steel such as 316 L / 316Ti. Certificate of the said steel quality must be provided by the manufacturer.
11. **Chamber:** Should be made of S.S.316 & should comply the Pressure Equipment Directive (PED) & EN 13445 norms or equivalent, Chamber should have minimum 5 years warranty or should confirm 44-50,000 process minimum life. Chamber should have working pressure 2.2 bar & design pressure up to 3.8 bar. Chamber should have Stress & Fatigue analysis reports for material & construction of the pressure vessel. Chamber should be equipped with an electrically heated jacket for preheating on standby mode. Door should have a horizontal sliding/Hinged door with a silicone elastomer rubber gasket to withstand temperature up to 140°C.
12. **Quality System Compliance:** Sterilizer should comply with the quality systems as per ISO 9001:2000, EN ISO 13485:2003, and ISO 14001:2004. Sterilizer should be CE or FDA or BIS Certified
13. **Air Filter:** A disposable air filter should be provided for filtering the atmospheric air before entering inside the chamber and the filter separation efficiency should be higher than 99.998% for particle size less than 0.3 $\mu$ m.
14. **Pre-programed cycles:** It should have pre-programmed cycle for autoclaving of different stuff like liquid, glass utensils, solid waste
15. **Water Storage Tank:** Sterilizer should have inbuilt water reservoir with storage capacity up to 5 Litres. The water reservoir should have easy access for cleaning & to avoid biofilm.
16. **Steam Generator:** Sterilizer should have inbuilt steam generator with warranty of 5years on heating elements. The steam generator design should be an integrated energy storing system for building up power for sterilization loads in a short time.
17. **Control Panel:** The control system should be a microprocessor based PLC system. The control system should have a CPU processor with battery back - up, Digital input/output controls, analog measuring inputs.
18. **Alarms:** Automatic process checking & failure correction should be possible by the control system. The range of alarm should include Temperature & pressure sensor failure, phase time -out, doors not properly closed, power failure (less than 10 sec should be ignored), continuous self-checking of all the safety devices, low water level etc. All the alarms should be audio -visual.
19. The door should be vertically / horizontally sliding with safety locks, manual actuation of doors and automatic door sealing.



20. Vacuum pumps should be incorporated with the unit to create vacuum for total evacuation of the air from the chamber.
21. The cycles of sterilization should be programmable with choice of different time & temperature (121/134 degree Celsius) setting with their corresponding pressure (1.2/2.1 kg/cm square).
22. All pipes and valves in touch with steam should be made up of AISI304 StainlessSteel/ Copper (Combined with Copper and Nickel) or equivalent.
23. Machine should have a pressure and safety valve.
24. The machine should have a provision for automatic filling of water into the steam generator.
25. Suitable water purification system (R.O.) should be provided as per the system requirement for sterilization unit and should be installed, run and maintained by the supplier / firm as per the warranty and AMC terms.
26. The digital display at front panel to show the temperature of chamber, pressure in the jacket & chamber, cycle number, batch number, time & date, alarm indicator (for high and low temperature), error code, low water indicator / alarm etc should be provided on the touch screen.
27. Stainless steel loading carriage with two perforated & adjustable shelves should be provided along with a suitable M.S. trolley moving on casters from the same manufacturer and should be made of 304/316 grade stainless steel.
28. Loading carriage should have two stainless steel detachable arms for protection to load on two sides.
29. Trolley should have two locks one for locking carriage with trolley & second for locking trolley with sterilizer & there should be a break system for trolley wheels.
30. All infrastructural work including plumbing and electrical work will have to be done by the supplier.
31. Comprehensive onsite training of staff till familiarity with the system.
32. There should not be any occupational risk to the workers while handling the machine like bursting of boiler / chamber.

**Accessories:**

1. The sterilizer unit should include racks with 3 levels & suitable size instrument trays should be the part of the supply. The Sterilizer should have a water circulation system.

**Important:**

1. Model should have at-least five years on-site comprehensive warranty and thereafter five years CMC rates to be provided including everything (list of spares and consumables which includes water purification system (R.O.). Servicing to be provided at least every three months and as and when required at rates compatible with Government of India norms.
2. Local Service Support should be within 48 hours of the incident report.
3. Prompt after sales service should be available within the city
4. Additional features/accessories, if any that can potentially increase the productivity of this instrument should be quoted as optional items.



5. Vendor should have at least 10 installations (similar model) in state/Central Govt. institutions/Institutions with good reputation
6. The model quoted with actual image should be provided with the quotation





## Declaration by the vendor

I/We hereby declare that I/we have made myself / ourselves thoroughly conversant with the local conditions regarding all materials and labor on which I/we have based my/our rates for this tender. The specifications and lead of materials on this work have been carefully studied and understood by me/us before submitting this tender. I/we undertake to use only the best materials approved by the University of Mumbai or his duly authorized representative before starting the work and to abide by his decision.

I/We hereby undertake to pay the laborers engaged on the work as per minimum wages Act 1948 applicable to the Zone concerned.



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**Signature of vendor/ bidder/ representative**