

Open Tender Notification for the procurement of "Autoclave System" at the Indian Institute of Science, Bangalore (Last date of submission of tenders: 6th August-2021)

Date: 16th July 2021

Dear Madam/ Sir:

Please send your bids for the supply of equipment as described in the attached sheet titled Technical Specifications for Autoclave System. Bid should be valid for a period of 90 days from the date of opening of bids / tender document.

Your bids so submitted shall clearly indicate the general terms and conditions of the quotations, delivery, delivery schedule, entry tax, payment terms, warranty coverage etc. The quoted products should be either from an Indian OEM or its authorized Indian distributor. The bid should be submitted in Indian National Rupee (₹) and for IISc-Bangalore only. In case the bid is submitted as an or on behalf of Indian OEM, a certificate stating the bidder is authorised agent should also be submitted along with the bid.

The bids should be submitted for each item. All such items should be compatible in use. These separate bids should be submitted in two separate covers - "Technical bid" and the "Commercial bid". Both these bids should thereafter be put in a single cover superscribing- For Autoclave System, IISc, Bangalore.

All pages of bids along with any attached documents / certificate should be duly signed by the authorised person in this regard and must reach the undersigned on or before of 6th August 2021 (**1700 hours**).



The Chair
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Division of Biological Sciences
Old TIFR Building, Gulmohar Marg
Indian Institute of Science
Bangalore-560012
Karnataka, India

Technical Specifications for Autoclave System

Item 1. Horizontal Autoclave

Sl. No.	Technical Specifications
1	Autoclave should be horizontal, rectangular, high vacuum, single pneumatic hinged door with gasket sealing, fully automatic with pre-selected and variable programs. It should be able to handle liquid loads also (for water bottles) and it should also have manual mode operation, in case of emergency, with bypass valve. Should have built-in printer for documentation of sterilization cycle. Pre and post vacuum cycle are must for drying the load. The system should be suitable for / capable of drawing power from 3 phase LT and quote should include the required power receptacle installation, installation of DB with required circuit breakers and protectors, drawing of cable from nearby electrical panel etc as required.
2	Autoclave inner chamber capacity (W x H x L) should be minimum of 350 litres or higher with inner chamber dimension of 600 X 600 X 1200 mm. Working pressure should be between 2.25 to 2.75 kg and working temperature should be > 120 to 135 °C. Argon welding, SS316 quality material, Chamber should have safety valves.
3	Chamber and jacket should be made with high quality stainless steel (SS316), wall thickness not less than 6 mm. Working pressure 2.5 kgs inside jacket. Stand should also be made of SS304 quality material. Suitable racks/trolley need to be provided.
4	The entire equipment including doors must be insulated with minimum of 50mm thickness Resin Bonded Glass Wool & clad with SS304 quality sheet. Airtight partition is must between loading and unloading side (partition between sterile and non-sterile areas). The skin temperature of the equipment should not be higher than 55°C.
5	Should have high quality appropriate stainless-steel body electric steam generator, with low water protection, automatic pressure controller, high quality pipeline and valves. The system should be supplied with all the accessories required to function. The Autoclave should be supplied with the suitable Air compressor as well. Note: There is no steam line utility at the installation site.
6	The equipment should have automatic locking hinged door operated with pneumatic cylinder. The door should be of SS316 quality material, silicon gasket pressurized by compressed air (pressure gauge must). The autoclave doors must be interlocked so that only one can be opened at any time and be automatically controlled so that the outside door to the autoclave can only be opened after the decontamination cycle has been completed.
7	All valves & pipelines which are connected to chamber should be of SS316 quality material. All process valves should be piston valves pneumatically actuated. All exhaust, drains should be connected to a common drain.
8	Validation ports should be provided with special leak tight ferrules for temperature sensors validation of the system. Should have microprocessor-based PLC system with Touch Screen HMI control system.

9	<p>The system should be Equipped with all the safety features as per the IS norms/International norms for Autoclave Safety's construction. The system should be CE/ISO Certified. The supplier should produce a material testing report, Jacket pressure testing report at the time of installation.</p> <p>The system quotation must have all the compliance certificate of autoclave manufacturing and testing. System should be supplied with operation and maintenance manual. The system should have provision to remotely monitor the parameter of autoclave via BMS system</p>
10.	<p>Comprehensive Maintenance Contract: Minimum 3 years comprehensive maintenance contract following the warranty period (3 years).</p>
11.	<p>Should provide timely service after sales and should have good supply network for spares. The supplier should produce list of users from reputed Institute, preferably Government institute/ hospital to which same or similar material have been supplied.</p> <p>Should provide list of local clients, if any, who are using the similar autoclave model in Bengaluru.</p> <p>Latest PO references for similar and/or larger size autoclaves, if any, are a must.</p> <p>Installation and training should be a part of the company.</p> <p>Need to perform related civil and electrical work with installation.</p> <p>Minimum 3 years warranty should be provided.</p> <p>The Buyer reserves the right to reject/cancel/scrap the Tender Enquiry or change the quantity of tendered item(s) without notifying any reason whatsoever.</p> <p>The buyer reserves the right to issue separate purchase orders for the item numbers 1, 2 and 3.</p> <p>Only the Technical Bids will be opened on the Specified Tender Opening Date and Time. Financial Bids of only those firms will be opened, whose Technical Bids are found technically compliant/ suitable on Technical Evaluation by the Buyer. Date of opening of the Financial Bids shall be separately intimated after evaluation of the Technical Bids.</p> <p>During evaluation of Bids, the Buyer may, if so required, ask the Bidder(s) for clarification on the Bid submitted. The request for such clarification shall be in writing (or through e-Procurement System). The clarification furnished by the Bidder should not result in any change in prices or substance of the Bid nor will the same be permitted. No post-bid clarification at the initiative of the Bidder will be entertained.</p>

	Canvassing in any form by the Bidder, unsolicited letter and post-bid amendment/modifications/ corrections shall attract summary rejection of the Bid.
	In case of any dispute, the decision of the Buyer shall be final and binding on all participants in the tender.

Item 2. UPS for power-backup for the autoclave machine

1	25 KVAUPS with 1/2 hour backup suitable for the autoclave. AC input: 3 phase; voltage range -20% +15%, power factor >0.6, true online 3 phase in-3 phase out, frequency 50 Hz, with audio alarm, buzzer for battery low, protections for output over voltage trip, charger overload trip, short circuit trip. 3 years minimum warranty.
2	Comprehensive Maintenance Contract: Minimum 3 years comprehensive maintenance contract.

Item 3. Metal cage rack for washing and drying cage

1	SS316 quality material racks with lockable casters capable of sustaining 150 bar horizontal pressure for holding at least 50 cages of size 9X8 inches during pressure cleaning and drying. (3 numbers). 1 Year minimum warranty.
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Final Audit Report

2021-07-15

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