

Ref: INS/L-5091/2019-2020(Y)

Date : 08/05/2019

ENQUIRY

Dear Sirs,

Please let us have your lowest Quotation for the following :

Sl.No	Cat.No	Item Description	Make/Model	Item Qty	UOM
1		Autoclave (Specifications attached)		1.00	No.

Remarks : The Price quoted against this RFQ should be extended to Bangalore Life Science Cluster (BLiSc) of NCBS, InStem and C-CAMP for placing repeat order as per norms, by any one or all institutes of Bangalore Life Science Cluster (BLiSc). **inStem is a public funded research institute and is entitled to concessional rate of GST @ 5% for items supplied for research purpose. The offer should be submitted after fully considering the above notification. **

Note : The Tenders to be quoted in foreign currencies & any other currencies approved/traded by RBI - USD/Euro/JPY/GBP/SGD/CAD/INR.

1. The bids shall be enclosed in an envelope , and due date sealed duly marked "Tender for _____" Ref No : _____. The bids should be addressed and to be mailed to "THE HEAD-PURCHASE". The bids are liable to be rejected if the sealed envelope is not addressed to "THE HEAD-PURCHASE" with Tender Ref No and Item Description and due date. The bids delivered in person shall be dropped in Purchase Section. If the bids are sent through courier or mail , it should reach by submission Date and Time and inStem will not be responsible for the delay.

2. DUE DATE FOR SUBMISSION OF QUOTATION AGAINST THIS ENQUIRY IS
27/05/2019 till 5.30 p.m.

3. QUOTATIONS RECEIVED AFTER THE DUE DATE SHALL BE REJECTED.

4. The Validity of your quotation should be for 60 days from the date.

5. All duties, taxes, surcharge and cess as currently applicable must be stated in your quotation, separately. Otherwise your quote is liable to be rejected.

6. Your quotation should indicate delivery period & Warranty period.

7. Delivery to be made to our Stores. Please indicate charges, if any extra. Transit Insurance should be done upto inStem Stores.

8. If you are unable to supply the quality, specifications or brand as mentioned in our enquiry, Please state so and then offer alternative to quality/Specifications.

9. Payment : within one month after delivery & acceptance/satisfactory installation.

10. Please ensure that the enquiry number and the due date is superscribed on the envelope failing which your quotation is liable to be rejected.

11. Since we are a public funded research institution, we are exempted from paying Customs Duty (Except ad valorem duty of 5% + 2% cess and CVD @ 4% vide Notification No. 51/96 with latest amendments) and excise duty vide Notification No. 10/97 CENTRAL EXCISE dated 01-03-1997 for all scientific equipments, technical instruments, equipments (including computers), their accessories, spares, consumables and software. Hence, please offer your prices taking this option into consideration.

If the items as per specifications in our P.O. is not supplied (shipped) within the specified delivery schedule, then liquidated damages (not in terms of penalty) will be imposed automatically and shall be deducted from the bill at the rate of 0.5% per week subject to a maximum of 10% of the order value.



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12.If the item is covered under DGS&D rate contract,please quote the rate as per the DGS&D rate contract with xerox copy of the DGS&D order.

13.Any dispute or differences that may arise between the parties shall be referred to the sole arbitration of the Centre Director or his nominees.The decision of the arbitrator shall be final and binding on the parties.The venue for arbitration shall be Bangalore.The provisions of the Arbitration and Concillation Act,1996 as amended from time to time shall apply.The Courts in Bangalore shall have exclusive jurisdiction to deal with any or all disputes between the parties.

Yours faithfully

For and on behalf of Insitute For Stem Cell
Biology and Regenerative Medicine



Yesu R



GKVK, Bellary Road, Bangalore-560065,INDIA

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INS/L-5091/2019-2020(Y)

FULLY AUTOMATIC HORIZONTAL RECTANGULAR AUTOCLAVE EQUIPMENT TECHNICAL SPECIFICATION

Sr. No.	Description	
1	Horizontal High Pressure, Steam Sterilizer, Rectangular type with Single pneumatic operated Hinge Door, Electrically fully Automatic operation.	
	Chamber	<p>Size: 600 mm x 600 mm x 900 mm depth Volume: 324 litres Working pressure : 1.2 to 2.2 kg Working temperature : 121° to 135°C. Material : SS 316 Chamber is fabricated with full argon welding and is made in round corners for easy cleaning and is given a 2% slope for full drainage of the condensate. Chamber is provided with safety valve and compounding gauges on both sides. Chamber is provided with SS 316 railing of circular cross section and is easily removable for easy cleaning.</p>
	Chamber Baffles	SS 316
	Jacket	S.S. Working pressure : 2.5 kg
	Door & Door Safety Systems	<p>The equipment should be provide with automatic, Hinge single door operated. Through pneumatic cylinder. The door is fabricated from SS 316 quality material & sealing is done through movable silicone gasket pressurized by compressed air. Pressure gauge is provided for gasket, Door status indications are provided on both doors. Door movement safeties are taken care during the operations, such as interlocking of doors with process one door at a time and door obstruction facility.</p>
	Surface Treatment	Chamber & doors are buffed & polished to mirror finish surface finish 0.8 Ra value & The internal corners are rounded off to facilitate efficient cleaning.
	Insulation of shell	The entire equipment including doors is insulated with 50mm thickness Resin Bonded Glass Wool & clad with SS304 sheets. With this, the skin temperature of the equipment does not increase more than 55° C.
	Steam Generator	SS 304 Steam Generator of capacity (6 KW x 3 nos.) 18 KW is provided underneath the chamber which will generate and provide dry saturated steam to jacket and chamber through steam dryer.
	Pipes, Valves and Components	<p>All valves & pipe lines which are connected to chamber will be of SS 316 quality whereas non-contact will be of SS 304 . All process valves are piston valves pneumatically actuated. All utility connections are brought to one point, at the corner of the equipment for easy operation to the customer. All exhaust, drains are connected to a common drain. A removable screen plug is provided in the drain line to prevent clogging of the drain pipes and fittings. Pneumatic lines are of copper tubes with Brass/SS connectors.</p>
	Control System	Provide with Microprocessor based PLC system with Touch Screen HMI.
	Safety and alarms	<ul style="list-style-type: none"> - High Temperature & Pressure, - Utility failure, Vacuum pump trips - Low water level, Evacuation fails , Heat up fails
	Cycle Documentation Printer	Dot-matrix printer which will print date, batch/load number, program type selected and program parameters which include one point pressure and 1 point temperature print out.
	Vacuum pump and condenser	An adequate capacity Water Ring Type Vacuum Pump should be provide along with the equipment for air removal of door gasket, The pump is mounted on the equipment along with SS304 steam condenser, having copper cooling coil. This will avoid the direct steam entry to the pump.

Stand	S.S.
Programmable Logic Controller	8 level password protection for password security is given. RS232 port is provided for data communication. Inbuilt real time clock is provided with date and time function.
Validation Port	2 nos. validation ports will be provided with special leak tight ferrules is provided to accommodate 16 flexible Temp. sensors for the validation of the system.
Programs	5 pre-set program and one flexible program i.e. 6 programs will be provided. Other recipes as per user requirement will be provided. The automation is so designed that once the program is selected then no further intervention is required from the operator till the end of the program.
Available Cycles	The Sterilizer will be provided with following cycles - 1. Liquid cycle. 2. Pre vacuum cycle. 3. Post vacuum cycle. 4. Bowie & Dick Test 5. Leak test cycle. 6. Variable cycle.
Manual Override	Manual Operation facility with the automation will also be provided so that if the automation gets failed, you can run the machine by manually by which your work should not get hamper.
Electric supply	415 V, 3 ph, 50 Hz, AC. Total Electrical Load: 21 KW.

