

## 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		-80 freezer including racks with sliding drawers (Specifications Attached)		2.00	Nos.

**2 PART TENDER:** The Technical and Financial / Price Bids shall be submitted simultaneously in two (2) cover (sealed) system. The proposals shall be evaluated in two stages: (1) Technical and (2) Price / Financial. Technical evaluation will be carried out and those Vendors who score minimum 75% will qualify for Price Bid opening. Thereafter, Financial Proposal shall be evaluated. The Commercially LOWEST BIDDER shall be the first preferred Vendor for award of Order.

**Note:** \*\*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. \*\*

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  
01/10/2019 till 2.00 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.



**Institute For Stem Cell Biology and Regenerative Medicine**

Autonomous institute of the Department of Biotechnology, Government Of India




Ref: **INS/L-5458/2019-2020(Y)**

Date : 17/09/2019

**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

Phone No. : 91-80-23666343/344/345/346

Fax : 91-80-23636662

Email Id: purchase@ncbs.res.in

Website : www.ncbs.res.in

**2 PART TENDER FOR -80 freezer including racks with sliding drawers -Qty 02 Nos.**

**P.O. No: INS/L-5458/2019-2020(Y)**

The freezer must be constructed using 1” thick vacuum panel insulation in conjunction with environmentally-friendly water blown foam

Door gasket must provide 7 independent insulation zones along with 4 points of contact to ensure sample security.

Compressor should be based on Inverter Technology with Variable speed compressor to provide maximum temperature uniformity and minimal Energy Consumption

Freezer shall be painted with high-impact, scratch resistant powder coat finished interior and exterior to ensure long term viability and premium temperature uniformity.

The thermal breaker shall be made of plastic to limit heat leakage into the cabinet

Door latch operation with one-handed opening and closing. Handle must include door key lock as well as padlock provision for added security.

Freezer shall have 4 internal storage compartments with a 2 polystyrene insulated inner doors to ensure sample security. Inner doors should have no latches or external magnets and must be removable for easy cleaning without the use of tools.

Freezer shall have an automatic heated pressure equalization port which allows for rapid re-entry to cabinet.

Freezer shall have two-1-inch access ports as standard.

Freezer shall have a RS485 output, dry contacts and 4-20mA output for remote monitoring purposes.

Freezer door must open at least 180 degrees for easy sample access.

Display: LCD display with touchscreen

Freezer shall hold 400 2” boxes or 4000 - 2ml Vials with internal capacity of 549 liters

Freezer shall allow for set-point security control that blocks specific users from changing freezer set point or alarms through the use of a user name and password control. Unit shall allow for up to 150 users.

Freezer shall have a high performance operating mode that can be activated by the user without loss of power to the freezer.

Freezer shall have an on-board data logger that allows for a minimum of 4GB of data storage

Data must be available from the display for a minimum of 7 days. Data must also be downloadable via a USB port.

Power management system shall show incoming line voltage, indicate low or high line voltage, and provide voltage correction of up to +/- 10% of rating. Line voltage should be logged for a period of up to 15 years and be downloadable via a USB port.

Freezer shall log all power interruptions and provide audio and visual notifications.

Freezer shall have adjustable power recovery time delay that allows user to set a time delay between 1 second and 20 minutes after power failure.





Freezer shall have a graphical display of temperature in the form of a graph that is adjustable for a period of 2, 4 or 6 hours.

Freezer shall have a screen auto-off selection that allows the screen to darken between the hours of 9pm and 6am.

Freezer shall have a graphical indication of operating status as well as a redundant LED light.

Freezer shall record number of door openings and date/time of last opening. This counter shall be resettable by the user.

Freezer shall record temperature excursions including actual temperature, warmest temperature and coldest temperature. This indicator shall be resettable by the user.

Freezer shall display temperature of evaporator inlet, evaporator outlet, heat exchanger, first stage suction, second stage suction, second stage sump, liquid line and condenser air inlet. This display shall present in a graphical to allow for diagnostic troubleshooting.

Freezer shall record events in an event log viewable on the freezer display. This log shall include the event type, date and time. Event log data shall be downloadable via a USB port and viewable in standard programs such as MS Excel.

Freezer shall support temperature profile and event log on-demand pdf reporting downloadable via a USB port.

Freezer shall notify customer to perform preventative maintenance tasks including filter change and backup battery test.

Display shall notify user if a power failure, high temperature, or low temperature alarm occurred in the past and has since corrected itself. User must acknowledge past alarm to ensure cargo security.

Freezer must recognize if line voltage and frequency does not match freezer specification and alert user.

Freezers must maintain a sound level no louder than 48 dBA:

### **REFRIGERATION SYSTEM**

Freezer shall use only natural, commercially available refrigerants (Hydrocarbon) with no special blends required.

Freezer shall utilize variable speed controls to optimize temperature performance and energy.

Freezer refrigeration system shall incorporate a brazed plate heat exchanger. Heat exchanger shall be placed in a thermal box in the deck of the freezer to optimize freezer storage capacity.

Induction brazing shall be used on refrigeration connections to minimize leaks

Refrigeration system shall contain a liquid line/suction line heat exchanger to ensure freezer temperature stability.

### **REGULATORY**

Freezer must be built to and contain the registration mark for UL, cUL, and CE standards for safety and performance.

**3 Years Warranty from the date of installation.**



**Terms and Conditions:**

1. The Technical and Financial / Price Bids shall be submitted simultaneously in two (2) cover (sealed) system. The proposals shall be evaluated in two stages: (1) Technical and (2) Price / Financial. Technical evaluation will be carried out and those Vendors who score minimum 75% will qualify for Price Bid opening. Thereafter, Financial Proposal shall be evaluated. The Commercially LOWEST BIDDER shall be the first preferred Vendor for award of Order.
2. **first sealed cover – Cover I**, and super scribed as **“Techno-commercial Bid”** and should contain Complete Technical details of the Instrument offered (Specifications, Technical Parameters, Advantages, etc.,)
3. The **second sealed cover – Cover II** super scribed **'Price Bid'** should contain **only rates** (should be duly signed with seal and filled with date wherever necessary)
4. THESE TWO COVERS SHALL BE AGAIN PUT INTO A SINGLE WAX SEALED COVER super scribed **“-80 freezer including racks with sliding drawers -Qty 02 Nos.”** and should reach **INSTEM on or before 01-10-2019 before 14.00 hrs**. This should be addressed to the Purchase Officer, inStem, NCBS, GKVK Post, Bellary Road, Bangalore – 65.
5. The tender to be quoted in foreign currencies & any other currencies approved/traded by RBI- USD/Euro/JPY/GBP/SGD/CAD/INR.
6. 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.

**INFORMATION TO TENDERERS**

**The Tender shall be evaluated under 2 (Two) Bid System**

**I Technical Bid**

**II Financial Bid**

**TECHNICAL SPECIFICATIONS & EVALUATION CRITERIA WITH MARKS FOR 2 PART TENDER FOR “CO2 Incubator with H2O2 sterilisation -Qty 02 Nos”.**

Specifications	Score
The freezer must be constructed using 1” thick vacuum panel insulation in conjunction with environmentally-friendly water blown foam	<b>60</b>
Door gasket must provide 7 independent insulation zones along with 4 points of contact to ensure sample security.	
Compressor should be based on Inverter Technology with Variable speed compressor to provide maximum temperature uniformity and minimal Energy Consumption	
Freezer shall be painted with high-impact, scratch resistant powder coat finished interior and exterior to ensure long term viability and premium temperature uniformity.	
The thermal breaker shall be made of plastic to limit heat leakage into the cabinet	
Door latch operation with one-handed opening and closing. Handle must include door key lock as well as padlock provision for added security.	
Freezer shall have 4 internal storage compartments with a 2 polystyrene insulated inner doors to ensure sample security. Inner doors should have no latches or external magnets and must be removable for easy cleaning without the use of tools.	
Freezer shall have an automatic heated pressure equalization port which allows for rapid re-entry to cabinet.	
Freezer shall have two-1 inch access ports as standard.	
Freezer shall have a RS485 output, dry contacts and 4-20mA output for remote monitoring purposes.	
Freezer door must open at least 180 degrees for easy sample access.	
Display : LCD display with touchscreen	
Freezer shall hold 400 2” boxes or 4000 - 2ml Vials with internal capacity of 549 liters	
Freezer shall allow for set-point security control that blocks specific users from changing freezer set point or alarms through the use of a user name and password control. Unit shall allow for up to 150 users.	
Freezer shall have a high performance operating mode that can be activated by the user without loss of power to the freezer.	
Freezer shall have an on-board data logger that allows for a minimum of 4GB of data storage	
Data must be available from the display for a minimum of 7 days. Data must also be downloadable via a USB port.	
Power management system shall show incoming line voltage, indicate low or high line voltage, and provide voltage correction of up to +/- 10% of rating. Line voltage should be logged for a period of up to 15 years and be downloadable via a USB port.	
Freezer shall log all power interruptions and provide audio and visual notifications.	
Freezer shall have adjustable power recovery time delay that allows user to set a time delay between 1 second and 20 minutes after power failure.	
Freezer shall have a graphical display of temperature in the form of a graph that is adjustable for a period of 2, 4 or 6 hours.	
Freezer shall have a screen auto-off selection that allows the screen to darken between the hours of 9pm and 6am.	
Freezer shall have a graphical indication of operating status as well as a redundant LED light.	
Freezer shall record number of door openings and date/time of last opening. This counter shall be resettable by the user.	
Freezer shall record temperature excursions including actual temperature, warmest temperature and coldest temperature. This indicator shall be resettable by the user.	





Freezer shall display temperature of evaporator inlet, evaporator outlet, heat exchanger, first stage suction, second state suction, second stage sump, liquid line and condenser air inlet. This display shall present in a graphical to allow for diagnostic troubleshooting.	
Freezer shall record events in an event log viewable on the freezer display. This log shall include the event type, date and time. Event log data shall be downloadable via a USB port and viewable in standard programs such as MS Excel.	
Freezer shall support temperature profile and event log on-demand pdf reporting downloadable via a USB port.	
Freezer shall notify customer to perform preventative maintenance tasks including filter change and backup battery test.	
Display shall notify user if a power failure, high temperature, or low temperature alarm occurred in the past and has since corrected itself. User must acknowledge past alarm to ensure cargo security.	
Freezer must recognize if line voltage and frequency does not match freezer specification and alert user.	
Freezers must maintain a sound level no louder than 48 dBA:	
<b>REFRIGERATION SYSTEM</b>	
Freezer shall use only natural, commercially available refrigerants (Hydrocarbon) with no special blends required.	
Freezer shall utilize variable speed controls to optimize temperature performance and energy.	
Freezer refrigeration system shall incorporate a brazed plate heat exchanger. Heat exchanger shall be placed in a thermal box in the deck of the freezer to optimize freezer storage capacity.	25
Induction brazing shall be used on refrigeration connections to minimize leaks	
Refrigeration system shall contain a liquid line/suction line heat exchanger to ensure freezer temperature stability.	
<b>REGULATORY</b>	
Freezer must be built to and contain the registration mark for UL, cUL, and CE standards for safety and performance.	15
3 Years Warranty from the date of Installation	
<b>Total</b>	<b>100</b>
<b>Evaluation will be carried out and those Vendors who score minimum 75% will qualify for Price Bid opening. Thereafter, Financial proposal shall be evaluated. The Commercially LOWEST BIDDER shall be the first preferred Vendor for award of Order.</b>	

