inStem

Ref: INS/L-5533/2019-2020(Y) **Tender Notice No.012/2019-2020**

2 PART TENDER FOR -80 Ultra Low Temperature Freezer -Qty 07 Nos.

Tender Fee – Rs.500/-, EMD: Rs. 1,05,000/-
Cost of Tender: Approx. Rs. 52.50 Lakhs
Last date for Sale of Documents: 31-10-2019 till 14.00hrs
Last date for submission: 01-11-2019 till 15.00hrs
Due date for opening bids: 01-11-2019 at 15.30hrs

GENERAL CONDITIONS

(Tender documents consist of 15 pages, Pg. 1 to Pg.14 – Technical Bid, Pg. 15- Price Bid)

Important Instructions: The bids shall be enclosed in an envelope and sealed duly marked "-80 Ultra Low Temperature Freezer -Qty 07 Nos." Ref. No. INS/L-5533/2019-2020 (Y)"; addressed and to be mailed to "The Purchase Officer". The bids are liable to be rejected if the sealed envelope is not addressed to "The Purchase Officer" with Tender Ref. No. and Item Description. Offers delivered in person shall be deposited in the Tender Box Labelled as 'TENDER BOX FOR PURCHASE TENDER" kept in the Ground Floor, Reception at Administration Building. If the bids are sent through courier or mail, it should reach by submission Date and Time and inStem will not responsible for the delay.

Important instruction for the Tenderers: -
All tenders shall be made in ENGLISH only.
The details in regard to technical specification and other terms and conditions should be cogent and clear to the extent possible.

Sealed tenders are invited at Institute for Stem Cell Biology and Regenerative Medicine -inStem, National Centre for Biological Sciences, GKVK Post, Bellary Road, Bangalore – 560 065 under **2 cover system** from reputed **OEM (Original Equipment Manufacturer) or reputed Manufacturers / Authorised Dealers for Supply, Installation, Commissioning and Technical Support for the following: -**

-80 Ultra Low Temperature Freezer -Qty 07 Nos.

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.

I) The EMD amount should be put in **first sealed cover – Cover I,** and super scribed as **"Techno-commercial Bid"** and should contain -

1. Acceptance of Technical specifications, **Annexure- A (page 9)** and terms and conditions. Tender document to be enclosed with Date, Signature and Seal in every Page.
2. Complete Technical details of the Instrument offered (Specifications, Technical Parameters, Advantages, etc.,)
3. Supplier profile & Schedule of Experience – **Annexure – B**
4. Supplier must describe in detail the technical support they will be able to provide in Bangalore. Only those companies will be considered who have engineers based in Bangalore who have been trained on the machines being quoted for, prior to the date of installation.
5. Suppliers must provide complete list of publications arising from use of their machines, in which the machines have been used for the applications listed. Enclose Data Sheet and Sample Analysis (if any)
6. Details of Warranty Services.
7. Details of "After Sales Service" and "Factory Trained Engineers" available in Bangalore.
8. Xerox copies of the Purchase Orders for having supplied similar Instruments in India.
9. Schedule of deviation from specifications / conditions – **Annexure C.**

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10. Any other information the bidder like to provide with Date, Signature and Seal
(Annexures should be duly signed and filled with date wherever necessary)
(Please attach additional sheet(s), wherever necessary)

II) The **second sealed cover** – **Cover II** super scribed **'Price Bid' (page 15)** should contain only rates **(please attach additional sheet(s), wherever necessary)** (should be duly signed with seal and filled with date wherever necessary)

THE ABOVE MENTIONED TWO COVERS SHALL BE SEALED ON THE OUTSIDE WITH WAX SEAL BEARING THE LOGO/NAME OF THE COMPANY SUBMITTING THE BID.

THESE TWO COVERS SHALL BE AGAIN PUT INTO A SINGLE WAX SEALED COVER super scribed **"-80 Ultra Low Temperature Freezer -Qty 07 Nos." and should reach INSTEM on or before 01-11-2019 before 15.00 hrs".** This should be addressed to the Purchase Officer, inStem, NCBS, GKVK Post, Bellary Road, Bangalore – 65. The Techno – Commercial Bid will be opened on **01-11-2019 at 15.30 hrs.**
On the date of tender opening (i.e. on **01-11-2019**), only the **Techno-Commercial Bids** shall be opened in the presence of attending tenderers.
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. 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% and above 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.

Earnest Money Deposit shall be submitted along with the "Techno-Commercial Bid" in the form of a Demand Draft drawn in favor of "Institute for Stem Cell Biology and Regenerative Medicine, payable at Bangalore" and the DD should be from a Commercial Bank/ Foreign Bank (First class Bank). Alternatively, a Bank Guarantee from a Commercial Bank/ Foreign Bank (First class Bank) may be provided (no other mode of payment will be accepted). The Bank Guarantee should be valid for 6 months from the date of opening. Bids not accompanied with Earnest Money Deposit shall be rejected. The EMD shall be refunded to the unsuccessful bidders once the order is released on the successful bidder.
The Techno-Commercial bids shall be evaluated subsequently and only the shortlisted firms Price Bid will be opened.

1.1 Quotations must be submitted giving complete details using enclosed tender papers.
1.2 The rates quoted should remain valid for a period of 180 days from the date of Price Bid opening.
1.3 Each page of the tender except the Price & Delivery part shall be on printed letterheads or forms and bear the signature, date, name and designation of the person signing the offer. If they are not on letterheads, a rubber stamp indicating full name, address and phone No., Telex No., Fax No. etc. of the firm shall be affixed at the end of each page. The price & delivery part shall be as Annexure B attached.
1.4 This tender document is not transferable. Only the party to whom the tender documents have been issued shall be entitled to quote.

1.5 Bids containing erasures or alterations are liable to be rejected unless countersigned by the Authorised signatory.

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1.6 All rates and total amount should be written both in figures and in words and if there is any discrepancy between the two, the lowest amount only will be considered.

1.7 Tenders will be opened in the presence of attending tenderers on **01-11-2019** at **15.30 hours**. In the event the due date is declared as holiday, the tender will be opened on the following working day.

1.8 If the item offered is to be imported, arrangements for import will be made by the Institute. Import duty and customs clearance will be under purchaser's scope.

1.9 We reserve the right to place order for part/reduced quantity than what is specified in the tender and also reserve the right to split the order to more than one supplier.

1.10 Any deviation/substitution in regard to the technical specification must be indicated in Annexure C of this tender document. Otherwise it shall be binding on the bidder to supply the items as specified in this tender specification.

1.11 All bids are to be submitted before the due date and time. **The bids shall be enclosed in an envelope and sealed duly marked "-80 Ultra Low Temperature Freezer -Qty 07 Nos."; Ref. No. INS/L-5533/2019-2020 (Y)"; and mailed to the Purchase Officer.** Offers delivered in person shall be deposited in the Tender Box kept in the office. **Due date for opening the bids: 01-11-2019 (15.00 hours).**

1.12 Please return the tender papers including Conditions of Tender as well as the Annexures with your signature, rubber stamp and date affixed on each page.

1.13 All bids in response to this invitation of tender should be submitted in a manner and method specified above. Tender which do not comply with the above conditions are liable to be rejected.

1.14 Late and delayed tenders will not be considered. Therefore, tenderers shall ensure that the tender reaches the Purchaser on or before the due date and time stipulated for receipt of bids.

TENDERS RECEIVED LATE OR AFTER THE DUE DATE WILL NOT BE CONSIDERED. INSTEM RESERVES THE RIGHT TO ACCEPT, REJECT ANY OR ALL TENDERS WITHOUT ASSIGNING ANY REASONS THERE OF.

1.15 Individuals signing the bid form and other supporting documents must specify the capacity in which they sign, like -

a) Whether signing as a Sole Proprietor of the firm or his attorney.
b) Whether signing as a partner of the firm or his attorney
c) Whether signing for the firm as Agent.
d) Whether signing as Director of a Limited Company.

2. CATALOGUE/TECHNICAL LITERATURE

All necessary catalogue/drawing literature/data and details of item/s as are considered to be essential for full and correct evaluation of the bid shall invariably accompany the bid.

3. BID GUARANTEE / EARNEST MONEY DEPOSIT: -
Bid Guarantee amount details are as below: -

Sl. No.	Item Description	BGA/EMD Amount
1.	-80 Ultra Low Temperature Freezer -Qty 07 Nos	INR 1,05,000/-

The EMD/BGA shall be submitted by a DD (for outstation firms) or Banker's cheque (in case of local firm) from a Commercial Bank/ Foreign Bank (First class Bank) along with the bid, drawn in favor of "Institute for Stem Cell Biology and Regenerative Medicine, Bangalore". Alternatively, the EMD amount may be submitted by way of Bank Guarantee from a Commercial Bank/ Foreign Bank (First class Bank) valid for 6 months (no other mode of payment will be accepted). The BGA amount will be forfeited if the successful bidder fails to accept the Letter of Intent/ Purchase order or withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender. The offers are liable to be rejected, at the discretion of the Centre, if they are not accompanied with BGA. No interest shall be payable by INSTEM for BGA amount. The BGA shall be refunded to the unsuccessful bidders once the order is released on the successful bidder.

4. AUTHORITY OF AGENTS
In case where a bid is submitted by an Indian Agent on behalf of his foreign principal, such bid should be supported with a letter of Authority from the principal that the Indian Agent has been authorised to submit the bid on behalf of the principal. The indigenous manufacturers shall submit their bids directly.

5. PRICE
The tender to be quoted in foreign currencies & any other currencies approved/traded by RBI-USD/Euro/JPY/GBP/SGD/CAD/INR. The price/s quoted shall be firm till the complete execution of the order. All details relating to price, price breakup, inland transportation, documentation, taxes and duties, levies, Road/AIR/Marine freight charges, delivery terms (ex-works/F.O.R/F.O.B/CIP) mode of payment, mode of Dispatch, Insurance, Agency Commission, if any, should be clearly stated. For indicating the price, the tenderers may choose any/all of the following:

a) Ex-works (all other charges to be indicated separately).
b) F.O.R. site (i.e. Freight, Packing & Forwarding, loading on to the transport, documentation etc. included.) Internal transportation, Freight, Insurance, etc. to be shown separately.
c) F.O.B (cost of goods, Packing & Forwarding, Inland Transportation, Documentation, etc. till the item is loaded on to the cargo carrier). Freight & Insurance charges to be separately indicated.
d) CIP (cost of goods, packing & forwarding, documentation, freight, insurance, etc. all included). However, freight & insurance charges to be indicated separately.
INSURANCE TO BE COVERED TILL inStem STORES.

6. The taxes (State, Central, Turnover tax, Works Contract Tax, etc.). Please specify which are applicable. The duties and other levies, freight, insurance shall be stated clearly and separately. Also please mention whether the same is included in the price/s quoted.

7. VALIDITY OF BIDS
The bids should be valid for a period of 180 days from the date of opening of the Price bids. Bids with shorter validity period are liable for rejection.

8. DELIVERY
The tenderer should clearly mention the time required for supplying the item. The period of delivery will be counted (a) from the date of receipt of the order in case of Indian supplier and (b) from the date of opening of letter of credit/receipt of order (in the case of sight draft/advance draft) for foreign suppliers. The delivery date is the date at which the equipment should be delivered at INSTEM.

9. PACKING
The item should be packed appropriately so that it can sustain transit hazards, multiple landing, warehousing, etc. during transit.

10. PLACE OF DELIVERY
In the case of items indigenously manufactured, ALL DELIVERIES shall be effected to the Institute for Stem Cell Biology and Regenerative Medicine, National Centre for Biological Sciences, GKVK, Bellary Road, Bangalore-560065, whereas the foreign suppliers shall effect delivery up to Bangalore Airport, India by AIR only unless otherwise specified.

11. GUARANTEE/WARRANTY
The item/s covered under this tender shall be subject to a guarantee for trouble free performance, workmanship, material etc., fulfilling the specifications mentioned in this tender for min. **36 months** from the date of commissioning. If any defect is found in the material, workmanship or performance during the guarantee period the same may either be repaired/replaced by the supplier as the case may be free of charge. The guarantee period for replacement of parts or repair work shall be same as above. A guarantee certificate to this effect should be forwarded to us with your invoice. For order placed on foreign suppliers, the supplier shall specifically confirm that their Indian representatives, if any, will provide with after sales service and will attend to any repairs or technical problems that may arise.

12. PERFORMANCE B/G
The successful bidder shall have to execute a performance B/G in accordance with the guarantee/warranty for 10% value of the order. This B/G has to be executed on an appropriate value of stamp paper in terms of a bank guarantee drawn on any Nationalized Bank or first class Foreign Bank and shall remain valid till the completion of the Defect Liability period/warranty period, with **6 months** claim period.

13. TAXES AND DUTIES
The Centre shall deduct all taxes and duties, as applicable, from time to time from the bills payable.

14. PAYMENT TERMS
As per our Centre, 90% of the payment shall be made through Sight Draft (documents through bank) and balance 10% payable after installation, trail run and subject to acceptance by the group head through SAI and all other relevant documents, with Performance Bank Guarantee.
All claims shall cease as per the Limitation Act.

15. CLARIFICATIONS
After opening the bids, if it becomes necessary for the purchaser to seek clarifications from the bidders, the same will be sought from the bidders. In such an event, the bidders will furnish all technical information / clarifications to the purchaser to reach on or before the due date fixed for that purpose, indicating the Purchaser's tender reference. If the technical clarifications

sought do not reach on or before the date fixed, the bids shall be summarily rejected without any further notice.

16. RISK CLAUSE

Notwithstanding the other terms therein, the Centre at its option will be entitled to terminate the contract and to avail from elsewhere; at the risk and cost of contractor; either the whole of the contract or any part which the contractor has failed to perform within the time stipulated or if the same performance is not available, the best and the nearest available substitute thereof. The contractor shall be liable for any loss which the Centre may sustain by reason of such risk contract in addition to penalty.

17. DISPUTE AND RESOLUTION

Any dispute or differences between the parties that cannot be settled by mutual discussion at appropriate levels shall be referred to the sole arbitration of the Director, INSTEM or his nominee and his decision in the matter shall be final and binding upon the parties to the dispute. The venue of arbitration proceedings shall be Bangalore. In respect of any matters pertaining to such arbitration, the courts of law in Bangalore will have exclusive jurisdiction.

18. OTHER TERMS

a) If electrical/ AC/ technical works contract, appropriate license defining the required expertise from the approved Licensing authority.

b) The Centre, will at its discretion ask for a solvency certificate from your bankers.

19. DEFINITION AND MEANINGS

In constructing these conditions, specifications, etc. in the tender document or the Annexures/Appendices the following words shall mean herein assigned definitions except where the subject context is otherwise stated.

PURCHASER:	Shall mean the Institute for Stem Cell Biology and Regenerative Medicine
BID/TENDER:	Shall mean the proposal/document that the BIDDER submits in the requested and specified form or otherwise along with Annexures, Appendices, etc.
BIDDER/TENDERER:	Shall mean the firm/party who quotes against an enquiry.
CONTRACTOR/SUPPLIER:	Shall mean the party to whom a Work Order/Purchase Order is awarded to undertake all or a part of the work covered by this tender document as well as an amendment orders relating to this tender issued by the Purchaser and shall include his/their legal representative, assignee/s or successor/s.
CONTRACT:	Shall mean and include the articles of agreement, Declaration form, the general and special conditions, the

Annexures, the Schedule of Quantities & rates and the specifications attached hereto and the drawings, if any.

ORDER VALUE: Shall mean total value of the Purchase Order/Work order issued against this tender item including taxes, levies, etc.

20. TECHNICAL SPECIFICATIONS
See Annexure – 'A'

21. For imported items, final price after totaling the prices of the individual items has to be mentioned with estimated freight, insurance, agency commission charges, etc. The price shall be FOR CIF BANGALORE AIRPORT.

22. INSTEM reserves the right to split the quantities or reject one or more offers in full or part without any reasons. Therefore, INSTEM decision is final and binding.

23. The quantity mentioned in the tender may be decreased/increased while ordering. However, the price quoted should be firm irrespective of change in the quantity.

24. ACCEPTANCE OF TENDERS
INSTEM does not pledge itself to accept the lowest/ any tenders and reserves to itself the right to accept the whole or part of the tenders or a part of the quantity offered.

25. The firm may quote in Foreign Currency for direct import on CIF basis as well as in Rupees on FOR INSTEM basis for local supply. Please indicate insurance, freight and other charges separately for direct import.

26. Your Service Engineer should be fully trained to install the equipment and capable of maintaining the equipment during / after the warranty period.

27. LIQUIDATED DAMAGES:
The successful bidder will have to agree that in case the item is not supplied within the agreed delivery schedule and after a grace period of seven days, then Liquidated Damages (not in terms of penalty) will be imposed automatically and be deducted from their bill at the rate of 0.5% per week subject to a maximum of 10% of the order value.

28. Micro and Small Enterprises (MSEs):
a. Micro and Small Enterprises (MSE) must, along with their offer, provide proof of their being registered as MSE (indicating the terminal validity date of their registration) for the item tendered, with any agency mentioned in the notification of the Ministry of Micro, Small and Medium Enterprises (Ministry of MSME)

b. The MSEs are exempted from payment of earnest money and tender fees subject to furnishing of relevant valid certificate for claiming exemption as per privilege rules of Government of India.

c. The bidder submits registration of Udyog Adhar Memorandum (UAM) by Ministry of Micro Small and Medium Enterprises (MSME) vendors on Central Public Procurement Portal (CPPP). The bidders who

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fail to submit UAM number shall not be able to avail the benefits available to MSEs as contained in Public Procurement Policy for MSEs Order 2012 issued by MSME.

Since INSTEM is a Public Funded Research Organisation, registered under Government of India Notification No.51/96 – Customs and 10/97 – for Central Excise is applicable for the items listed in the notification.

For and on behalf of
Institute for Stem Cell Biology and Regenerative Medicine

Purchase Officer

GKVK Post, Bellary Road, Bangalore 560 065. India
Phone +91-80-23666343 /344/345/346 . Telefax +91-80-23636662
purchase@ncbs.res.in . www.ncbs.res.in

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Ref: INS/L-5533/2019-2020(Y) **Tender Notice No.012/2019-2020**

ANNEXURE-A-SPECIFICATIONS

-80 Ultra Low Temperature Freezer -Qty 07 Nos.

TECHNICAL SPECIFICATIONS:

minus 80' C ULT Freezer good quality from a trustworthy brand
The freezer must be constructed using l" 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.
Original racks for the box storage must be included in the quote
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 be able to hold 400 2" boxes or 4000 - 2ml Vials with internal capacity of 500 to 600 L
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 .+GB 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+/- l 0% of rating. Line voltage should be logged for a period of up to 15 years and be down loadable 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 l 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.

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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. Engineer should be based in Bangalore and be able to rectify any notified issue in the 2 days' period. Engineer's details should be given along with the Tender.

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Ref: INS/L-5533/2019-2020(Y) **Tender Notice No.012/2019-2020**

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 "-80 Ultra Low Temperature Freezer -Qty 07 Nos".

TECHNICAL EVALUATION CRITERIA WITH MARKS	
Technical Requirement	**Marks**
minus 80' C ULT Freezer, good quality from a trustworthy brand	**25**
The freezer must be constructed using l" 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.	
Original racks for the box storage must be included in the quote	
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 be able to hold 400 2" boxes or 4000 - 2ml Vials with internal capacity of 500 to 600 L	**20**
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 .+GB 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+/- l 0% of rating. Line voltage should be logged for a period of up to 15 years and be down loadable 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 l 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.	**20**
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.	

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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	
REFRIGERATION SYSTEM:	
Freezer shall use only natural, commercially available refrigerants (Hydrocarbon) with no special blends required.	**20**
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.	**15**
3 years' warranty. Engineer should be based in Bangalore and be able to rectify any notified issue in the 2 days' period. Engineer's details should be given along with the Tender.	
(Total Score)	**100**
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.	

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ANNEXURE – B

SCHEDULE OF EXPERIENCE

Please furnish list of major supplies/works undertaken in relevant to this tender during the past two years.

Sl. No.	Name of the company with full address	Name of project	Purchase Order No. & date	Brief description	Value (Rs.)

Signature	
Name	
Designation	
Name of company	
Date	
Seal of the company	

ANNEXURE - C

SCHEDULE OF DEVIATION FROM SPECIFICATIONS/CONDITIONS

All deviations from the specifications/conditions shall be filled in by the bidder in this schedule.

The bidder hereby certifies that the above mentioned are the only deviations from Technical Specification of this tender. [State NIL if no deviation is envisaged].

Signature	
Name	
Designation	
Name of the company	
Date	
Seal of the company	

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COVER – II PRICE BID

-80 Ultra Low Temperature Freezer -Qty 07 Nos.

Sl. No.	Item Description	Qty	Unit Price	Total Price

Please enter Unit Price, Total Price and Grand Total in figures as well as words. Unit price and Total Price may be entered below each item.

InStem PURCHASE