

**National JALMA Institute for Leprosy and Other Mycobacterial Diseases**  
**(Indian Council of Medical Research)**  
**(Department of Health Research, Ministry of Health & Family Welfare, Government of India)**  
**Dr. M Miyazaki Marg, Tajganj, Agra**  
**Uttar Pradesh-282004**  
**Website: [www.jalma-icmr.org.in](http://www.jalma-icmr.org.in)**

**TENDER NOTIFICATION**

**Tender Enquiry No: NJIL/NRL/NABL/Equip-01-2017**

**Contents:**

<b>S. No</b>	<b>Particulars</b>	<b>Page No</b>
<b>1</b>	<b>Tender Notice</b>	<b>3-4</b>
<b>2</b>	<b>Important points to be noted</b>	<b>5</b>
<b>3</b>	<b>Eligibility Criteria</b>	<b>6</b>
<b>4</b>	<b>Instructions to Bidders</b>	<b>7-10</b>
<b>5</b>	<b>Requirement Specification</b> <b>Annexure-‘A’</b>	<b>11-25</b>
<b>6</b>	<b>Annexure ‘B’ to ‘I’</b>	<b>26-33</b>

**National JALMA Institute for Leprosy and Other Mycobacterial Diseases**  
**(Indian Council of Medical Research)**  
**(Department of Health Research, Ministry of Health & Family Welfare, Government of India)**  
**Dr. M Miyazaki Marg, Tajganj, Agra**  
**Uttar Pradesh-282004**  
**Website: [www.jalma-icmr.org.in](http://www.jalma-icmr.org.in)**

**Limited Tender Notification**

The Director, National JALMA Institute for Leprosy and Other Mycobacterial Diseases, Agra invites sealed tender in two bid systems for **following Ten items**. The Tender form will be issued from 08.11.2017 during the office hours (9:00 AM to 5:30 PM). The tender forms can also be downloaded from the website. Last date of Submission of Tender is 29.11.2017 till 5:00 PM. For details please refer to website of NJIL&OMD, <http://www.jalma-icmr.org.in> or website of ICMR, New Delhi <http://www.icmr.nic.in> or from Central Public Procurement Portal, <http://eprocure.gov.in>.

S.No.	Name of Equipment	Qty.	Approx. Cost
1.	Autoclave (Vertical)	One	Rs=65,000/-
2.	Bacteriological Incubator exclusively to be set at 57°C	One	Rs=20,000/-
3.	Deep Freezer - 20 °C (140 L)	One	Rs= 1,00,000/-
4.	Deep Freezer - 85 °C (300 litres or more upto 450 L)	One	Rs= 7,00,000/-
5.	Digital Maxima- Minima Thermometer	Two	@Rs=5000/- <b>Rs=10,000/-</b>
6.	Hot Plate	One	Rs=80,000/-
7.	PCR-Workstation	Two	@Rs=70,000/- <b>Rs=1,40,000/-</b>
8.	Single channel pipette, variable ranges in µl (1-10, 20-200 & 100-1000) and autoclavable	04 Nos. of each range	@ Rs=10,000/- <b>Rs=1,20,000/-</b>
9.	Standard weight box	One	Rs=60,000/-
10.	Tacho meter	One	Rs=7,000/-

**National JALMA Institute for Leprosy and Other Mycobacterial Diseases**  
**(Indian Council of Medical Research)**  
**(Department of Health Research, Ministry of Health & Family Welfare, Government of India)**  
**Dr. M Miyazaki Marg, Tajganj, Agra**  
**Uttar Pradesh-282004**  
Website: [www.jalma-icmr.org.in](http://www.jalma-icmr.org.in)

**TENDER NOTIFICATION**

The Director, National JALMA Institute for Leprosy and Other Mycobacterial Diseases, Agra, (ICMR), invites sealed tender in Two Bid System which should reach to The Director, NJIL&OMD, Agra upto 29.11.2017 till 5:00 PM latest, at the above mentioned address.

**PLEASE NOTE** that only tenders received *through registered post/speed post/courier/By hand* in sealed envelopes will be accepted. **The tenders must reach the above mentioned address by the evening of 29.11.2017 till 5:00 p.m. latest. Please ensure despatch of the tenders accordingly.**

The bids should be in the form of: (1) TECHNICAL BID providing detailed specifications and detailed technical proposal as per required specifications mentioned in the tender document for each of the item together with manufacturer's original data-sheets supporting the specifications in sealed cover and Earnest Money & Tender Fee deposits in separate sealed cover and (2) PRICE BID for supply, installation, additional warranty/AMC and commissioning of the following items:

S.No.	Name of Equipment	Qty.	EMD	Tender Value
1.	Autoclave (Vertical)	One	Rs1300.00	Rs=65,000/-
2.	Bacteriological Incubator exclusively to be set at 57°C	One	Rs400.00	Rs=20,000/-
3.	Deep Freezer - 20 °C (140 L)	One	Rs2000.00	Rs= 1,00,000/-
4.	Deep Freezer - 85 °C (300 litres or more upto 450 L)	One	Rs14000.00	Rs= 7,00,000/-
5.	Digital Maxima- Minima Thermometer	Two	Rs100.00	@Rs=5000/- <b>Rs=10,000/-</b>
6.	Hot Plate	One	Rs1600.00	Rs=80,000/-
7.	PCR-Workstation	Two	Rs1400.00	@Rs=70,000/- <b>Rs=1,40,000/-</b>
8.	Single channel pipette, variable ranges in µl (1-10, 20-200 & 100-1000) and autoclavable	04 Nos. of each range	Rs2400.00	@ Rs=10,000/- <b>Rs=1,20,000/-</b>
9.	Standard weight box	One	Rs1200.00	Rs=60,000/-
10.	Tacho meter	One	Rs140.00	Rs=7,000/-

Detailed tender documents (Non-transferable) can be purchased up to 20.11.2017 (4.30PM) either from Directors office in any working day (Monday to Tuesday) during office hours (9:30 AM to 5.30 PM) on submission of written request clearly mentioning the name of item with payment (Cash/DD) of Rs.500.00 (Rs. Five hundred only) (Non-refundable) as a cost of tender form for each item or can be downloaded from the website of NJIL&OMD <http://www.jalma-icmr.org.in> or website of e-procure.gov.in, for this payment of Rs. 500.00 (Rs. Five hundred only) (Non-refundable) as cost of tender documents for each item will have to be paid separately by D.D. in favour of Director, NJIL&OMD, Agra at the time of submission of tender documents, otherwise which the tender will not be considered. The tender cost should be enclosed as mentioned above.

**Important Dates and Points to be noted:**

Opening date and time for sale of tender documents	08.11.2017 at 9.30 A.M.
Closing date and time for sale of tender documents	20.11.2017 till 5:30 PM
Last date and time of submission of tender	29.11.2017 till 5:00 PM
Address for issue and submission of tender documents	The Director National JALMA Institute for Leprosy & Other Mycobacterial Diseases, Dr. M. Miyazaki Marg, Tajganj, Agra 202 004
Non-refundable fee for tender document for each item/instrument	Rs. 500.00 (Five hundred only)
Tender documents will also be available at website	<a href="http://www.jalma-icmr.org.in">www.jalma-icmr.org.in</a> <a href="http://www.icmr.org.in">www.icmr.org.in</a>
Earnest Money Deposit (EMD) (Interest free, refundable) (to be sent with the Technical Bid)	Amount of EMD is required to be deposited by Demand Draft/ Banker cheque/Bank Guarantee in the name of Director NJIL&OMD, Agra, payable at Agra as shown against the items.

**Note:**

The specified tender fee should accompany the tender document in case it has been downloaded from internet, failing which tender will not be considered.

**Eligibility Criteria:**

1. Original Equipment / item's Manufacturers / Authorized Dealers should ensure sales, instalation and service support facilities at NJIL&OMD, Agra through their branch office / authorized representative in India.
2. Indian agent with extensive sales (Minimum 3 years) and service support in India - Original Equipment / items manufacturers / Firms / Companies / Authorized Dealers with the above eligibility criteria are eligible to quote for the equipment / items. The Indian agency / dealership certificate with details of sales and service support should be enclosed with the technical bid.
3. Manufacturers / Companies of foreign origin can quote through their Indian authorized dealers.
4. Submission of Earnest Deposit Money (EMD) should be as defined against the respective equipment / items.

## Instructions to Bidders

### 1. Scope of Work:

- A. The scope includes Supply of complete equipment/items, Installation, Testing, commissioning listed units of specified items in tender document.
- B. The scope of supply also essentially includes satisfactory delivery, installation, demonstration, requisite training of specified items in tender document.
- C. Providing free of cost warranty for two years for all the equipments, thereafter maintenance for five years on payment basis as CMC/AMC.

### 2. Formats for Bids

Tender should be submitted in two parts viz.

**Part I** – Technical Bid (without Prices) in sealed envelope and separate sealed envelope of EMD & tender fee and

**Part II** - Price Bid. All the sealed envelopes should again be kept in large envelope & sealed. The tenderers are requested to give detailed Quotation in the formats mentioned in the Tender Document. The bidder should furnish the following:-

#### A. Technical Bid:

- a. A detailed technical proposal supported by pictures, diagrams, design as per the specification at 'Annexure A' should be enclosed.
- b. The consignee of all items will be NJIL&OMD, Agra.
- c. After Sales support details must be in the format 'Annexure D'.
- d. Price schedule for CMC/AMC cost should be quoted in Rupees not in percentage as per Annexure D.
- e. The bidders should submit the after sale service support as per "Annexure E"
- f. The warranty certificate to be given by the Manufacturer / vendor should be as per 'Annexure F.
- g. Check list as per Annexure G' and enclose with the Technical Bid.
- h. List of Users preceding this tender- 'Annexure H'
- i. Undertaking to be submitted by manufacturer as per format given as Annexure I.

#### B. Price Bid:

- i) The Price Bid should be submitted in the format enclosed as 'Annexure C' separately.

#### Tender Document Fee:-

Compulsory Tender Document Fee as shown is payable by tenderers who have downloaded the tender documents from websites mentioned in the tender notice above. They should submit the Earnest Money Deposit along with technical bid in the form of bank draft/bankers cheque/bank guarantee in favour of Director, NJIL&OMD, Agra payable at Agra. Tender form can also be purchased from the Institute (administration wing) on cash payment basis. In case of purchase of tender document from NJIL&OMD original money receipt should be submitted along with Technical bid. Tenders not accompanied with EMD in the Technical bid will be summarily rejected. The EMD will carry no interest. EMD will be refunded after finalization of bid to the unsuccessful tenderers. The EMD is liable to be forfeited, if the bidder withdraws or amends, impairing or derogates from the tender in any

respect. Earnest Money Deposit (EMD) of the unsuccessful tenderers will be refunded only after completing all the tendering procedures in all respect.

**Bid Submission:-**

Completed tenders in all respect & signed by the bidder on each page at the bottom; super scribing the Enquiry Number (NJIL/NRL/Eqpt/2017-1) and closing date on the envelope should be sent to:

**The Director,  
National JALMA Institute for Leprosy and  
Other Mycobacterial Diseases (ICMR)  
Dr. M. Miyazaki Marg  
Tajganj, Agra-282004**

Each quotation sent by post/courier is to be enclosed in Double Cover. The inner cover should be SEALED WITH WAX AND SUPERSCRIBED as “Tender for (write name of each equipment/items).....” Tender Enquiry No. .... Dated ..... Date of Opening .....” etc.

The Separate covers containing the Technical Bid and Price Bid for each item should be clearly superscribed as “Technical Bid” and “Price Bid” respectively with quoted equipment/items name. These sealed covers are to be put in a larger cover which should also be sealed and duly superscribed name of bidder firm, address and name of equipment/items. Quotations should reach NJIL&OMD, Agra by post/courier/ by hand upto 13.01.2017 till 5:00 PM latest. The tenderers themselves should ensure that their tenders with all requirements will reach to this office within the stipulated date and time. Late-tenders or delayed-tenders will not be accepted. NJIL&OMD, Agra will not be responsible for non-receipt / postal delays.

**Price Bid Opening:** - Only those bids, which meet our technical requirement will be considered for opening of Price Bid. Those vendors who qualify in the technical evaluation will be permitted to be present at the time of price bid opening. The date and time of price bid opening will be intimated to all technically qualified bidder through email/mobile. **E-mail address and mobile number should, therefore be, compulsorily be provided in the technical bid.**

**Language of Bid:** The bid prepared by the bidder, technical brochures and all correspondence relating to the bid will be written in English language only.

**Validity of offer:** - Offer should be valid for 12 months after the date of opening of price bid.

INTERIM CORRESPONDENCE WILL NOT BE ENTERTAINED BEFORE PLACING THE ORDER.

Tender Documents are not transferable under any circumstances.

The bid should be complete in all respects otherwise liable to be rejected. Tender should be duly signed and related documents must be attached with the bid. Incomplete and unsigned bids will not be considered.

Quotations must be clearly written or typed without any overwriting. The person signing the bid must attest all corrections / over writings if any.

All rates / prices in Price bid should be given in figures and in words in Indian Rupees only. If there is any discrepancy between the Prices given in figures and words the Lower of the two shall be taken for our comparison.

Director NJIL&OMD, Agra reserves all the right to defer the above dates or cancel the Tender in part or whole without assigning any reason what so ever.

All terms and conditions of the tender/quotation will be dealt as per instructions guideline of Central Vigilance Commission.

For any further clarifications queries may be directed to the following e-mail ids -  
[jalmadirector@gmail.com](mailto:jalmadirector@gmail.com);

**Arbitration:**

1. All dispute or difference of any kind shall arise between the purchaser and the service provider in connection with or relating to the contract, contained herein, shall be mutually discussed and settled between the parties.
2. However, disputes which cannot be settled shall be finally decided and resolved by arbitration in accordance to the provisions of the arbitration and conciliation act 1996 and any subsequent amendments thereto. The matter requiring arbitration will be referred to a sole arbitrator to be appointed by the Director, NJIL&OMD only. The proceedings of the arbitration shall be conducted in English and shall be constructed as domestic arbitration under applicable laws.
3. All the disputes/issues arising out of this transaction will be subjected to the exclusive jurisdiction of courts at Agra.

**Notices and communications:-** For all purposes of all notices, the following address shall be used by the Bidder / Vendor:-

The Director,  
National JALMA Institute for Leprosy and Other Mycobacterial Diseases (ICMR)  
Dr. M. Miyazaki Marg  
Tajganj, Agra-282004

If the vendor is declared insolvent / bankrupt in a court of law or such proceedings are contemplated by NJIL&OMD, Agra, the same will not be entitled to quote.

The acceptance of the tender/quotation will rest with the Director NJIL&OMD, Agra who does not bind himself to accept the lowest quotation and reserves the right to reject, or accept any or all the quotations received, without assigning any reason. The quotations are liable to be rejected, if any of the conditions are not complied with.

**User List:-** A signed list of similar equipment/items / stores supplied by the bidder (or the OEM) to the Other ICMR, CSIR labs, other medical Institutions like Government or any State and Central Govt. Departments, Undertakings in India during last three years, should be furnished, indicating capacity, model, type of equipment/items, cost etc. and address of the parties to whom supplied.

The bidder shall supply the following documents at the time of Acceptance Test:

- I. Complete set of Technical/Operation and Maintenance Manual.
- II. Comprehensive inventory with list of accessories delivered.
- III. Node & connectivity details (if applicable).
- IV. Firm which will not full-fill the conditions accepted by them in their tender may be declared “black listed” and in that case all type of future business with that firm may also be stopped.
- V. If single response is received, than tender may be re- floated, however, second time again single response is received, than it can be considered with the permission of Director. The proprietary items will be accepted at first instance.
- VI. There should have numbering on each and every page of tender documents and list of enclosures should also be mentioned at first page of tender where details for tender is written along with the number of pages of enclosures to avoid any un-happening /confusion etc.
- VII. If quoted equipment/items or model is discontinued by the firm/mfg. after quoting the item, then the firm will inform to the office and after getting acceptance from NJIL&OMD, Agra , the firm will have to supply the equivalent or higher version of the same make at the same price, other terms and conditions of the tender will remain un-changed.

**Service support:-** The services are required to be provided at sites.

**Payment terms:-** No advance payment shall be made. 100% Payment will be released after successful installation & commissioning report of the equipment/items.

**Customs duty:** - The NJIL&OMD is exempted from customs duty under notification no.148/94-Cus dated 13.07.1994 as amended by notification No. 173/94-Cu, dated 6.10.1994. However the Institute will not pay any payment for customs duty. Custom clearing activities will be done by company / tenderer on their cost.

**Annexure A**  
**(SPECIFICATION)**

**1. Autoclave (Vertical):**

1. Vertical autoclave, universal basic version for microbiological standard laboratory to sterilize liquids, instruments, glassware, plastic articles or general infectious waste.
2. Triple walled construction; chamber, basket, door lid, doorframe, bolts made of corrosion-resistant material and able to prevent stress cracking preferably made of high grade stainless steel sheet of SS-304 grade
3. Housing with SS legs - Pressure vessel should be Hydraulic tested at factory with minimum Hydrostatic Pressure: 2.5 kg/cm sq. (35 psi) - Working Chamber volume: approx. 70 -80 liters.
4. Timer: 1-99 minutes.
5. Pressure: Working pressure: 15 PSI, Maximum operating pressure: 2.5 bar or 36 PSI.
6. A visual chamber gauge which easily identifies the pressure in the chamber must be accessible to the operator as a backup for reading pressure gauge when no electrical power is available.
7. Temperature accuracy:  $\pm 0.5^{\circ}\text{C}$ .
8. Electrically heated by immersion type heaters bearing ISI mark.
9. Fast safety lid lock with silicone gasket, it may be radial locking, automatic locking, single lever locking, fly nut assembly mechanism and with heat resistant/safety handle.
10. Sterilization Temperature: Ambient  $10^{\circ}\text{C}$  - $134^{\circ}\text{C}$ .
11. Sterilization time range: 0-9hours.
12. Manual water feed system with water level indicator, pressure gauge, steam release cock, spring loaded safety valve, water inlet and water valves
13. Pressure resistance: Chamber pressure should resist 36 psi for safety.
14. Material exterior: Epoxy resin powder coated steel.
15. Quality System Compliance: ISO 9001:2008 or ISO 13485:2003.
16. Safety features: Over temperature, Low level water limit, over current, auto release against over pressure, Safety valve for 20 psi with an extra safety valve for 25 psi, emergency cut-off switch. Door should not open if the chamber is pressurized.
17. Baskets: 3 nos. of baskets (Mesh/Perforated).

18. Operating voltage: 230 ±10VAC, 50 Hz, Single phase plug type adapted to local country scenario.
19. Voltage stabilizer should be provided along with equipment which should regulate 160 to 260 volts. The power cable should be acceptable durability, length, current carrying capacity in comply with Indian standard.
20. Accessories to be supplied include stainless steel basket (where 2 fit in autoclave directly plus two spare total 4), stainless steel wire basket (where 2 fit in autoclave directly plus two spare total 4), Chemical indicator tape for sterilization (2), Biological indicator (100), spare heating elements (two), fuses (10) and silicone gaskets (2).
21. Automatic Water Cut-off Device – To protect the heaters from running dry and to ensure that the machine is automatically switched off in case the desired water level falls below the prescribed level
22. Warranty: 3 Years

## **2. Bacteriological Incubator exclusively to be set at 57°C**

1. Inner chamber made up of Stainless steel make of SS-304 grade, full length inner acrylic security glass door
2. Housing made of zinc galvanized sheet metal coated with epoxy, hardened by heat treatment, corrosion resistant
3. Triple wall with special grade glass wool insulation
4. Temperature range, ambient+5°C to 80°C which is user settable, ±0.1°C resolution
5. Controller/Digital indicator for Temperature
6. Size in mm approximately (of inner chamber):- 500 (W)×400(H)×320(D), Capacity:- Approx. 70-100 liters and door swing 65 cms.
7. Adjustable over-temperature protection controller so as to ensure that the Incubator does not go beyond the set temperature automatically gets cutoff after attaining the set temperature.
8. Programs stored on power failure so that when power is restored, equipment continues to function on the previous programme.
9. Certificate to state that the incubator has been calibrated at the factory.
10. The apparatus should confirm to Indian Standard Institution Guidelines with latest amendments in Indian Standard Specification for Incubators or equivalent National or International Standards covering Markings, tests and Safety requirements. Voltage regulators of appropriate rating to be included for each item to cope with 160-260 V. The line cord / Power cord supplied with the equipment shall be of acceptable durability, length, and current carrying capacity complying with Indian Standards.
11. Warranty: 3 Years

### **3. Deep Freezer - 20 °C (140 L)**

1. 100% CFC- free. - One-door freezer, to be used as free-standing freezer.
2. Capacity (gross):  $\geq 140$  litres (up to 200L).
3. Dimensions (W  $\times$  D  $\times$  H): approximately 60 cm  $\times$  60 cm  $\times$  85 cm.
4. Net (interior compartment) W  $\times$  D  $\times$  H: approximately 47 cm  $\times$  43 cm  $\times$  69 cm.
5. Cooling system, static. - Defrosting of freezing compartment, initiated manually.
6. Temperature range of freezer compartment:  $-9$  °C to  $-25$  °C which can be set by user for specific temperature
7. Housing material and door: steel, coated, white.
8. Polyurethane foam “PUF” insulation - Door hinges right or left as desired, reversible.
9. Fungus-resistant door gasket.
10. Door with key lock.
11. Adjustable feet for levelling.
12. Interior container made of white plastic. At least three shelves with wire baskets.
13. Four shelves in the freezing compartment, at least three closed with a freezing flap.
14. External digital temperature display for freezer compartment with high accuracy sensor mounted inside the chamber suspended in air.
15. Control panel at the top of cabinet with thermometer Alarms for-Voltage, Over heat, Over cool as well as for under temperature, power fail, Door ajar conditions - Refrigerant: CFC Free.
16. Supply voltage:  $230 \pm 10$  V, AC, 50/60 Hz. Voltage and plugs to be adapted to meet the country requirements. The line cord / Power cord supplied with the equipment shall be of acceptable durability, length, and current carrying capacity complying with Indian Standards. Power consumption: Approximately 150 W. Conform to Indian Electrical Safety standards or International standards like IEC 60601–1, UL 61010–1, EN 61010–1. Protection class (in accordance with EN 60529).

#### **Documentation**

17. Manufacturer’s certificate
  - The manufacturer must have a management system certified to ISO 9001.
  - Declaration of conformity to the requirements of standards and regulations of the directives that apply to the product, including energy classification, gas used as refrigerant, climate class.
  - One certificate to state that the freezer has been calibrated at the factory.

18. Quality and safety standards met by the product must be listed.

19. Warranty: 3 Years

Operation, maintenance and installation

### **Operation and maintenance manual**

At least one set of operation, maintenance and service manuals for the freezer, written in United Nations languages (or at least in English) and preferably also in the official national language of the country requesting the freezer.

### **Installation and maintenance**

Any prerequisites for installation to be communicated to the purchaser in advance, in detail.

The supplier to provide an after-sale service that covers the whole country. The service to have competent staff, adequate infrastructure and sufficient spare parts to be able to respond to any complaints and to repair or replace the freezer within 14 days.

### **Standard maintenance tools**

All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning material, to be included in the offer. Bidders to specify the quantity of every item included in their offer (including items not specified above).

### **Spare parts**

Each freezer to be accompanied by an authorized list of accessories and spare parts.

### **Remarks**

The equipment offered, including its power supply, to be designed and constructed to operate properly and continuously in the conditions of the purchaser's country; the equipment may need to tolerate high humidity (as high as 90% at 35 °C), ambient temperatures of 5–40 °C, fungi, and spikes in the electricity supply.

#### **4. Deep Freezer - 86 °C (300 litres or more upto 450 L)**

1. Upright Model: CFC free high efficiency double refrigeration system for cooling and freezing filled in the bottom.
2. Temperature: 00 C to - 86<sup>0</sup> C + - 0.5<sup>0</sup> C (to work in -70 to -86<sup>0</sup> C range)
3. Temperature Control: - Digital temperature controller (including display at suitable eye level) - Microprocessor Control/Microcontroller-for temperature setting
4. Alarms for-Voltage, Over heat, Over cool as well as for under temperature, power fail,
5. Door ajar conditions Size: 300 litres or more (up to 450 L) with minimum 4 Stainless Steel, rust free shelves.
6. Fixed in casters for easy maneuverability.
7. Polystyrene Insulated inner doors for the compartments. Pre-coated metal body to prevent environmental damage Electricity: 230 volts AC, 50Hz single phase.
8. The line cord / Power cord supplied with the equipment shall be of acceptable durability, length, and current carrying capacity complying with Indian Standards.
9. Refrigeration system: Heavy-duty maintenance free refrigeration system with hermetically sealed refrigeration compressors and reliable cascaded refrigeration to minimize noise and vibration.
10. Air-cooled with security lock to prevent unintentional switch off. Short cooling time of 4 to 5 hours at 40°C ambient temperature. The equipment should be of continuous duty and frost- free.
11. Convenient Air Filter Grill allows easy access for cleaning and changing. Access port for CO<sub>2</sub> back up. It shall be fitted with 24x7 temperature recorders / data loggers which allows for a minimum of 3 GB data storage and the data must be downloadable via a USB port.
12. Deep freezer shall not have an automated defrosting system without a manual override.
13. Audiovisual Electronic Alarm System independent of power supply and Remote alarm contact in case of equipment failure/ power failure Electrically heated doors for quick opening of frozen doors.
14. Accessories to include suitable boxes and racks for storage of specimen deposits/ DNA extracts/culture isolates in cryo-vials (16 in No. of suitable dimension for 2 ml cryo-vials). Cyro- gloves (4 sets wrist length 12”) to be provided as part of accessories.
15. Remarks: The apparatus should confirm to Indian Standard Institution Guidelines with latest amendments in Indian Standard Specification for Laboratory Deep Freezers or

equivalent National or International Standards covering Markings, tests and Safety requirements. Voltage regulator of appropriate rating to be included to cope with 160-260 V.

16. Warranty: 3 Years

**5. (A) Digital Maxima- Minima Thermometer (0 °C to +300 °C) (One Number)**

1. Measuring range: 0 °C to +300 °C
2. Resolution: 0.1°C - Accuracy: ± 0.1°C
3. Precision: ± 0.2 % full scale
4. Flexible probe (Preferably K type) Thermocouple, waterproof & Heat resistance cable/probe.
5. Measuring frequency: 3 measuring per second
6. Display: Digital LCD display - Min-/Max-value memory optional.
7. Operating key: ON/OFF key, Min-max value display, Hold key
8. Power supply: 9V battery type
9. Low battery warning - Auto off function
10. Calibration certificate: Multi point Calibration Certificate must be submitted with traceability to ISO/IEC 17025 standards
11. Warranty Period: 1 year, Warranty starts with installation at site. - Accessories: One set of battery

**5. (B) Digital Maxima- Minima Thermometer (-100 to +60 deg C) (One number)**

**Use:** -100 to +60 deg C Digital Maxima- Minima Thermometer is used for calibration for -80 deep freezer,-20 deep freezer, refrigerator, WIC

**Technical Specifications:**

- Measuring range: -100 °C to + 60 °C
- Resolution: 0.1°C
- Accuracy: ± 0.1°C
- Precision: ± 0.2 % full scale
- Flexible probe (Preferably K type) Thermocouple, waterproof cable, cold resistance.
- Measuring frequency: 3 measuring per second
- Display: Digital LCD display
- Min-/Max-value memory(optional)
- Operating key: ON/OFF key, Min-max value display, Hold key
- Power supply: 9V battery type
- Low battery warning
- Auto off function
- Calibration certificate: Multi point Calibration Certificate must be submitted with traceability to ISO/IEC 17025 standards
- Warranty Period: 1 year, Warranty starts with installation at site.
- Accessories: Spare one set of battery

## **6. Hot Plate**

1. Hot plate, heating range 40-110 degree C
2. 220volt with temperature controller
3. 1ft x 1ft square flat plate, chemical and scratch resistance ceramic plate, temperature uniform across the plate
4. Spill trough to deflect spills away from electronic and control knobs with a LCD/LED indicator, hot indicator light whenever hot plate is above 50 degrees.
5. The line cord / Power cord supplied with the equipment shall be of acceptable durability, length, and current carrying capacity complying with Indian Standards.
6. Warranty: 3 Years

## **7. PCR-Workstation**

1. Exterior dimensions (H × W × D): approximately 700 mm × 750 mm × 600 mm.  
Interior working area (W × D): approximately 700 mm × 500 mm.
2. Exterior: stainless steel or powder-coated metal.
3. Interior: stable formed stainless steel.
4. Side panels transparent, able to absorb wavelengths below 400 nm.
5. Overhead UV light for DNA decontamination; two lamps, 25 W each. Separate, switchable, UV air-sterilizing circulation unit; UV lamp (25 W).
6. Timer and key lock for UV lamp; timer operates only when key lock is on.
7. Overhead white light; 15 W; at least 800 lux.
8. At least two plug outlets built into the chamber; AC 230 ± 10 V; 50 Hz; 5A fuse
9. Warranty: 3 Years

### **Electricity requirements**

**Supply voltage:** 230 ± 10 V, AC, 50/60 Hz.

Voltage and plugs to be adapted to meet the country requirements. The line cord / Power cord supplied with the equipment shall be of acceptable durability, length, and current carrying capacity complying with Indian Standards.

**Power consumption:** Depends on the electrical equipment used inside the workstation; maximum 1200 W.

Conform to electrical safety standards IEC 60601–1, UL 61010–1, EN 61010–1.

Protection class (in accordance with EN 60529).

Designed not to interfere with circuit radio (in accordance with EN 55014).

### **Documentation**

#### **Manufacturer's certificate**

The manufacturer must have a management system certified to ISO 9001 and a type-test certificate of relevant optical and mechanical tests.

**Quality and safety standards** met by the product must be listed.

#### **Operation, maintenance and installation**

#### **Operation and maintenance manual**

At least one set of operation, maintenance and service manuals written in UN languages (or at least in English) and preferably also in the official national language of the country requesting the workstation.

## **Installation and maintenance**

The bidder must arrange for the equipment to be installed by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.

The bidder to also provide user training (including how to use and maintain the equipment) and a comprehensive maintenance plan. The cost of the maintenance plan to be defined and guaranteed over the period of warranty. The supplier to provide an after-sale service that covers the whole country.

The service to have competent staff, adequate infrastructure and sufficient spare parts to be able to respond to any complaints and to repair or replace the workstation within 14 days.

## **Standard maintenance tools**

All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders to specify the quantity of every item included in their offer (including items not specified above).

## **Spare parts**

Each workstation to be accompanied by an authorized list of accessories and spare parts.

Set of fuses for the workstation.

Two UV lamps.

**Warranty:** Three years.

## **Remarks:**

The equipment offered, including its power supply, to be designed and constructed to operate properly and continuously in the conditions of the purchaser's country; the equipment may need to tolerate high humidity (as high as 90% at 35 °C), ambient temperatures of 5–40 °C, fungi, and spikes in the electricity supply.

Bidders may propose products additional to the requirements listed above.

8. Single channel pipette, variable ranges in  $\mu\text{l}$  (1-10, 20-200 & 100-1000) and autoclavable

1. Fully autoclavable (121 °C); UV-resistant material.
2. Three defined stops (single-button operation preferred): - take-up from the first stop - dispensing and blow out - tip ejection. Easy and safe tip ejection mechanism. Fixation of adjusted volume. Slim pipette shaft. Cone for standard tips.
3. Warranty: 3 Years

Pipette for Range	Increment	Accuracy	Precision
0.5 to 10 $\mu\text{L}$	0.1 $\mu\text{L}$	At least $\pm 5.0-1.0\%$	At least 3.0-0.4%
2 to 20 $\mu\text{L}$	0.1 $\mu\text{L}$	$\pm 3.0-1.0\%$	2.5-0.4%
20 to 200 $\mu\text{L}$	1 $\mu\text{L}$	$\pm 1.8-0.6\%$	0.7 to 0.2%
100 to 1000 $\mu\text{L}$	5 $\mu\text{L}$	$\pm 1.0-0.6\%$	0.7 to 0.2%

In accuracy, first value applies to smallest volume, last one to the largest volume in the stated range  
 In precision, first value applies to smallest volume, last one to the largest volume in the stated range

In accuracy, first value applies to smallest volume, last one to the largest volume in the stated range  
 In precision, first value applies to smallest volume, last one to the largest volume in the stated range

Three defined stops (single-button operation preferred):

- take-up from the first stop
- dispensing and blow out
- tip ejection.

Easy and safe tip ejection mechanism.

Fixation of adjusted volume.

Slim pipette shaft.

Cone for standard tips.

### Documentation

#### Manufacturer's certificate

The manufacturer must have a management system certified to ISO 9001.

One certificate to state that the pipette has been calibrated at the factory.

**Quality and safety standards** met by the product must be listed.

#### Operation, maintenance and installation

##### Operation and maintenance manual

At least one set of operation, maintenance and service manuals for each microlitre pipette, written in UN languages (or at least in English) and preferably also in the official national language of the country requesting the microlitre pipette.

##### Installation and maintenance

The supplier to provide an after-sale service that covers the whole country. The service to have competent staff, adequate infrastructure and sufficient spare parts to be able to respond to any complaints and to repair or replace the microlitre pipette within 14 days.

##### Standard maintenance tools

All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication material, to be included in the offer. Bidders to specify the quantity of every item included in their offer (including items not specified above). A maintenance kit, with full documentation and tools for in-laboratory calibration according to ISO 9000, are part of the procurement.

- Spare parts

- Gaskets.
- Lubricants.
- Each microliter pipette to be accompanied by an authorized list of accessories and spare parts.

**Warranty:** Two years.

**Remarks:**

The equipment offered to be designed and constructed to operate properly and continuously in the conditions of the purchaser's country; the equipment may need to tolerate high humidity, ambient temperatures of 5–40 °C and fungi. Bidders may propose additional products to the requirements listed above.

## **9. Standard weight box**

1. Accuracy Class: F1 Class, Cylindrical Knob type weights
2. Range: 1milligram to 200 grams to include weights of following denomination in appropriate quantities: • In milligrams: 1, 2, 5, 10, 20, 50, 100, 200 and 500 • In grams:1, 2, 5, 10, 20, 50, 100 and 200
3. Material: weights made of High Grade Stainless Steel
4. Clear marking of Nominal mass value
5. Presentation/Packaging: Individual/ Set of weights packed in polished wooden box lined with velvet cloth or other safety box. To include forceps used for holding weights.
6. Each weight to be one-piece construction to provide the maximum mass stability
7. All mass weights are made using procedures/standards developed by NIST
8. Operating Temperature: 0 to 50 °C
9. Operating Humidity: Less than 90%
10. Traceable to ISO/IEC :17025 for full range (complying with NABL requirements)
11. Warranty: 3 Years

## 10. Tachometer

1. Display 5 digits large LCD
2. Range: 2.5 - 99,999 RPM
3. For reading measurement, distance between instrument and reflective tape should be between 50 to 1,000 mm / 2 to 40 inches.
4. Accuracy: up to  $\pm 0.1$  RPM for speed less than 1000 RPM and up to  $\pm 1.0$  RPM for speed greater than 1000 RPM
5. Measurement angle for Tachometer holding: to be held at less than 120 degrees.
6. Range selection: Auto
7. Microprocessor based, high resolution and accuracy
8. Laser Output Power:  $< 1$  mW class II.
9. Sampling Time: 1.0 second
10. Memory: Last value, Max Value, Min. Value
11. Battery operated with 4 batteries of 1.5V AA or similar along with low battery indication
12. Operating Temperature: 0 to 50 °C - Operating Humidity: Less than 90% - Traceable to ISO/IEC: 17025 for full range (complying with NABL requirements).
13. Warranty: 3 Years

**Annexure “B”**

<b>S. No.</b>	<b>Place of Instalation</b>	<b>District Head Quarter</b>
1	NJIL&OMD, Agra	NJIL&OMD, Agra

**Price bid**

<b>S. No</b>	<b>Item</b>	<b>Required in numbers</b>	<b>Price quoted in INR</b>
<b>1</b>			In figures :  In words:
<b>2</b>			In figures :  In words:
<b>3</b>			In figures :  In words:

I agree to the above.

Signature of Tenderer \_\_\_\_\_

Name \_\_\_\_\_

Business Address \_\_\_\_\_

Seal of the Tenderer \_\_\_\_\_

Place: \_\_\_\_\_

## Annexure D

Price schedule for AMC and CMC after warranty period for Instruments to be procured.

1	2	3	4				
Name of Equipment	Brief description of Services	Applicable Taxes	Annual Comprehensive Maintenance Contract /Annual Maintenance Contract Cost for Each Unit year wise*				
			Year after warranty				
			Ist	IInd	IIIrd	IVth	Vth
	CMC						
	AMC						

### After completion of Warranty period

NOTE: -

1. The Comprehensive Maintenance Contract (CMC) shall include preventive maintenance including testing & calibration as per technical/ service /operational manual, labour & parts, for complete equipment and its allied items.
2. The price for AMC/CMC should be inclusive of all taxes.
3. All software updates should be provided free of cost during AMC / CMC period.
4. The supplier shall keep sufficient stock of spares required during AMC / CMC period.
5. In case the spares are required to be imported, it would be the responsibility of the supplier to import and get them custom cleared and pay all necessary duties.

Signature of Tenderer: \_\_\_\_\_

Place: \_\_\_\_\_

Date: \_\_\_\_\_

Business address \_\_\_\_\_

Seal of the Tenderer \_\_\_\_\_

Annexure E

After Sales Service Support Details

S.No	Local Address, Telephone numbers, Fax numbers and email address of the agent who will provide after sales support as per Annexure B	Number of engineers / service personnel who are stationed at the local address as per Annexure B	Nature of training imparted to the service personnel especially at the principal's company

In case the bidder is not able to provide after service and support at the district head quarters as per Annexure B they should provide a viable alternative plan for the same. The bidder has to ensure that no machine should remain non functional for more than a week due to want of repairs or any kind of technical issue.

Signature & seal of bidder

## Annexure F

### WARRANTY CERTIFICATE

We Warrant that everything to be supplied by us hereunder shall be brand new, free from all defects and faults in materials, workmanship and manufacture and shall be of the highest grade and quality and consistent with the established and generally accepted standards for material of the type ordered shall be in full conformity with the specification, drawing, or samples, and operate properly. We shall be fully responsible for its efficient operation. This Warranty shall survive inspection of any payment or and acceptance of the goods but shall expire after (except in respect of complaints of which the contractor has been notified prior to such date) 36 months Comprehensive warranty after their successful installation, commissioning and acceptance.

The obligations under the Warranty expressed above shall include all costs relating to labor, spares, maintenance (preventive and unscheduled) and transport charges from site to the manufacturers work and back and free repair/adjustment or replacement at site or any parts of the equipment which under normal and proper use and maintenance proves defective in design, material or workmanship or fails to conform to the specifications previously given by the NJIL&OMD, Agra to the contractor.

Signature & seal of bidder

Note: It should be provided in the letter head of the firm / company.

Annexure G  
Check List to be furnished by the bidder

S. No	Particulars	Compliance (Yes/No)	Page No.
1	Whether the proof of turnover is enclosed (balance sheet) & PAN No.		
2	For Two Bid System – Whether Techno commercial and Price Bids are kept in separate envelopes duly indicating Techno – Commercial Bid and Price Bid respectively		
3	Whether Tender Number, due date and opening date have been written in all the envelopes		
4	In Case of Tenderers who downloaded the documents from the website – Whether the tender document fee (Demand draft in favour of Director, NJIL&OMD, Agra is enclosed along with Techno commercial bid		
5	EMD – Whether the required EMD is Enclosed along with the Techno commercial bid		
6	If You are an Indian Agent / Dealer / Distributor for a foreign principal have you enclosed the Letter of Authorisation / Agency certificate in the Techno Commercial Bid.		
7	Whether Technical compliance Statement in Annexure A is enclosed in the Techno Commercial Bid		
8	Whether the price bid submit as per Annexure C		
9	Whether Details of After sales support is given as per format in Annexure D and is enclosed in the Techno Commercial Bid		
10	Whether Price schedule for AMC and CMC after warranty period for all the items enclosed as per Annexure E		
11	Whether the warranty certificate is enclosed as per Annexure F and is enclosed in the Techno Commercial Bid		
12	Whether the List of Users is given as per Annexure H and is enclosed in the Techno Commercial Bid.		
13	Whether the Under taking certificate submitted by the manufacturer as per Annexure I		
14	Whether the Pre-installation requirements is given in the Techno Commercial bid		
15	Whether the Price Bid has been signed in every page		

Signature & seal of bidder

Annexure H

**List of Users preceding this tender (If possible similar equipment)**

S. No	Order for similar Equipment placed by (full address of purchaser with contact person, Telephone number)	Purchase Order Number and Date	Description, model and quantity ordered	Date of completion of delivery as per contract and Date of installation / commissioning as per contract	Reasons if any, for delay in delivery, installation and commissioning

Signature & seal of bidder

## Annexure I

Undertaking (To be submitted by the manufacturer on Rs. 100 stamp paper duly notarized)

1. I undersigned certify that I have gone through the Terms & Conditions mentioned in the tender document including annexure and undertake to comply with them. The rates quoted by me/us are valid and binding on me/us for acceptance for the period of one year from date of opening of tender.
2. Earnest money deposited by me/us viz Rs. \_\_\_\_\_ in the form of Demand Draft /Banker's Cheque in favour of Director NJIL&OMD, Agra is attached herewith and shall remain in custody of the Director NJIL&OMD, Agra as per terms and conditions.
3. I/We give the rights to Director, NJIL&OMD, Agra to forfeit the EMD deposited by me/us if any delay occur on my/agent's part or fails to supply the article at the appointed place and time and of the desired specification.
4. There is no vigilance/CBI case or court case against firm regarding supply and service related issues is pending.
5. On Inspection if any article is found not as per supply order, it shall be replaced by me/us in time as asked for, to prevent any inconvenience at my /our own expenses.
6. I/we hereby undertake to supply the items as per specifications and directions given in supply order within the stipulated period.
7. I/we undertake to provide guarantee/warranty/ AMC/CMC as mentioned in specifications for three years from the date of satisfactory installation and inspection. I also undertake that I will maintain the equipment during this period and replace the defected parts free of cost, if necessary.
8. I/we understand that Director, NJIL&OMD, Agra has the right to accept or reject any or all the tenders without assigning any reasons (s) thereof.

Name, Signature & Address of the tenderer

With rubber stamp

Note: Undertaking can be submitted by the authorized distributor for imported products if there is no marketing office of principal companies available in India.