

Foundation for Innovative New Diagnostics
(FIND India)

Limited Tender Enquiry

BID DOCUMENT
FOR

**Procurement, Supply and Installation of Laboratory
Equipments at VIMSAR Burla**

Bid Ref.No: SAMS/FIND, India/RFQ/2023/29

Dated: 22/09/2023



(Procurement Agency)

STRATEGIC ALLIANCE

Management Services Pvt. Ltd.

B-18, Sector-6, NOIDA, G.B. Nagar, Uttar Pradesh - 201301

Email: procurement@samsconsult.com

Website: www.samsconsult.com

Key Information

The Strategic Alliance Management Services Pvt. Ltd. (SAMS) has been engaged by **Foundation for Innovative New Diagnostics, India (FIND, India)** for providing procurement consultancy services for equipment, goods, works, and services for use in Tuberculosis (TB) Laboratories in National Tuberculosis Elimination Programme (NTEP) across India under Global Fund (GF) Grant. Accordingly, SAMS on behalf of FIND, India is pleased to invite Quotation for Procurement, Supply and Installation of Laboratory Equipment at VIMSAR Burla as per detailed technical specification enclosed in Section III, on Delivery Duty Period (DDP)-Final Destination terms of delivery basis.

Procurement Method to be followed for evaluation and selection of agency: **Price-based System – Least Cost Selection (LCS)**

The SAMS hereby request you to submit your Quotation giving in full specifications, as per our terms and conditions enclosed herewith. The quotation should be valid for 90 days from the due date for submission of quotations.

The quotations should be submitted in double cover (Technical and Financial bid) duly sealed and prominently specifying “RFQ No. SAMS/FIND, India/RFQ/2023/29 for Procurement, Supply and Installation of Laboratory Equipment at VIMSAR Burla on or before 10/10/2023 at 03:00 PM.

The quotations, which are not received duly sealed, mentioning this RFQ number and last date of receiving will not be accepted.

SECTION – I INSTRUCTIONS TO BIDDERS

A. INTRODUCTION																																																											
1. Documents Establishing conformity of Goods and Services to Bidding Documents	1.1 The Bidder shall furnish as part of its Bid the documentary evidence whichever specified.																																																										
2. Qualifications of the Bidder	<p>2.1 The bidder must ensure that besides all these terms and conditions enclosed herewith, the following technical documents must be submitted in chronological order (strict compliance) to show their credentials meet the qualification requirement as mentioned to qualify the technical assessment and to avoid rejection of tenders.</p> <p>(i) Bidders can submit bid for any one or more or all schedules based on their technical capability and qualification criteria specified in RFQ. Bidders are requested to quote for the whole quantity in a schedule. If a bidder quoted for partial quantity in a schedule, the bid will be rejected.</p> <p>(ii) The bidder shall submit the PAN Card, GST Registration and organization details.</p> <p>(iii) Copy of Income Tax Return and CA Certificate for last three financial years (2020-21, 2021-22 and 2022-23).</p> <p>(iv) To qualify for each Schedule, the bidder, should have achieved an average annual turnover during the last three financial years or latest (i.e. 2020-21, 2021-22 and 2022-23) as the per table below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sch. No.</th> <th style="text-align: center;">Description of Goods and Equipment</th> <th style="text-align: center;">Total quantity to be supplied (Nos.)</th> <th style="text-align: center;">Average Annual Turnover requirement over last three financial years or latest (2020-21, 2021-22 and 2022-23)*</th> </tr> </thead> <tbody> <tr> <td rowspan="5" style="text-align: center;">1</td> <td>1-channel pipette, variable from 0.5 - 10 µl</td> <td style="text-align: center;">3</td> <td rowspan="5" style="text-align: center;">70,000</td> </tr> <tr> <td>1-channel pipette, variable from 2 - 20 µl</td> <td style="text-align: center;">2</td> </tr> <tr> <td>Variable Volume Pipette 20-200 µl</td> <td style="text-align: center;">2</td> </tr> <tr> <td>Variable Volume Pipette 100-1000 µl</td> <td style="text-align: center;">2</td> </tr> <tr> <td>Racks suitable for pipettes offered, at least 4 positions</td> <td style="text-align: center;">3</td> </tr> <tr> <td rowspan="2" style="text-align: center;">2</td> <td>1KVA Online UPS, 15 mins backup</td> <td style="text-align: center;">1</td> <td rowspan="2" style="text-align: center;">1,75,000</td> </tr> <tr> <td>3 KVA online UPS, atleast 3 Hr backup</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">3</td> <td>freezer (-20)-140L</td> <td style="text-align: center;">2</td> <td style="text-align: center;">80,000</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Refrigerator-165 L</td> <td style="text-align: center;">1</td> <td style="text-align: center;">12,000</td> </tr> <tr> <td style="text-align: center;">5</td> <td>PCR Workstation</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2,65,000</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Vortex Mixer</td> <td style="text-align: center;">2</td> <td style="text-align: center;">30,000</td> </tr> <tr> <td style="text-align: center;">7</td> <td>Water Bath</td> <td style="text-align: center;">1</td> <td style="text-align: center;">15,000</td> </tr> <tr> <td style="text-align: center;">8</td> <td>Microfuge/Mini spin</td> <td style="text-align: center;">1</td> <td style="text-align: center;">10,000</td> </tr> <tr> <td style="text-align: center;">9</td> <td>Microliter centrifuge</td> <td style="text-align: center;">1</td> <td style="text-align: center;">45,000</td> </tr> <tr> <td style="text-align: center;">10</td> <td>Thermocycler</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3,15,000</td> </tr> <tr> <td style="text-align: center;">11</td> <td>Universal Oven-32 L</td> <td style="text-align: center;">1</td> <td style="text-align: center;">15,000</td> </tr> </tbody> </table> <p style="text-align: center;">*In case, the Bidder quotes for more than one Schedule, the Average Annual Turnover will be cumulative i.e. the sum of turnover required for multiple no. of Schedules quoted.</p> <p>(v) The documentary evidence of conformity of the goods and services to the Bidding Documents may be in the form of brochure / technical literature.</p> <p>(vi) Manufacturer's Authorization Certificate to quote, supply and provide after-sales services for the quoted equipment.</p>	Sch. No.	Description of Goods and Equipment	Total quantity to be supplied (Nos.)	Average Annual Turnover requirement over last three financial years or latest (2020-21, 2021-22 and 2022-23)*	1	1-channel pipette, variable from 0.5 - 10 µl	3	70,000	1-channel pipette, variable from 2 - 20 µl	2	Variable Volume Pipette 20-200 µl	2	Variable Volume Pipette 100-1000 µl	2	Racks suitable for pipettes offered, at least 4 positions	3	2	1KVA Online UPS, 15 mins backup	1	1,75,000	3 KVA online UPS, atleast 3 Hr backup	2	3	freezer (-20)-140L	2	80,000	4	Refrigerator-165 L	1	12,000	5	PCR Workstation	2	2,65,000	6	Vortex Mixer	2	30,000	7	Water Bath	1	15,000	8	Microfuge/Mini spin	1	10,000	9	Microliter centrifuge	1	45,000	10	Thermocycler	2	3,15,000	11	Universal Oven-32 L	1	15,000
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- (vii) Bids from agents without proper authorization from the manufacturers /distributor/ dealer shall be treated as non-responsive and shall be rejected.
- (viii) Copy of at least two purchase orders for supply of similar product during last three (3) years as on date of opening of technical bid.
- (ix) Technical compliance statement of quoted item against required specifications of tender, as per format enclosed under technical specifications at Section III. The quoted product must meet the specifications of the product mentioned in the RFQ.
- (x) Confirmation for acceptance of all Terms & conditions of the RFQ
- (xi) Confirmation for acceptance of bid validity for 90 days.

3. Cost of Bidding 3.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Purchaser will in no case be responsible or liable for those costs.

B. THE BIDDING DOCUMENTS

4. Clarification of Bidding Documents 4.1 A prospective bidder requiring any clarification regarding specification, required services and conditions of contract/agreement, etc. given in the document may submit a written request for clarifications to SAMS by email up to **05.00 PM on 27/09/2023** at procurement@samsconsult.com

C. PREPARATION OF BIDS

5. Documents Constituting the Bid & Bid Submission

5.1 The Bid should be addressed and submitted to the "Strategic Alliance Management Services Pvt. Ltd. (SAMS), B-18, Sector-6 Noida, UP-201301, INDIA" in **HARD COPIES** (1 Original and 1 copy of Technical Proposal and 1 Original of Financial Proposal) 2 copies) and should reach this **office on or before 10/10/2023 till 03.00 PM**

5.2 At first, the documents listed in ITB Para 5.4 below shall be evaluated by the Purchaser as per the qualification criteria specified in the ITB para 2. The Bids which do not conform to the specified requirements will be rejected as technically non-responsive / disqualified Bids.

5.3 Thereafter, the Price Bids of all technically qualified bidders, shall be evaluated and compared by the Purchaser. A Supply order/ NOA shall be awarded to the Bidder who has been determined to be the lowest evaluated substantially responsive Bidder.

5.4 **The Technical Bid submitted by the Bidder shall comprise the following:**

1. The bidder shall submit the PAN Card, GST Registration and organization details.
2. Copy of Income Tax Return and CA Certificate for last three financial years (2020-21, 2021-22 and 2022-23,).
3. To qualify for each Schedule, the bidder, should have achieved an average annual turnover during the last three financial years or latest (i.e. 2020-21, 2021-22 and 2022-23) as the per table below:

Sch. No.	Description of Goods and Equipment	Total quantity to be supplied (Nos.)	Average Annual Turnover requirement over last three financial years or latest (2020-21, 2021-22 and 2022-23)*
1	1-channel pipette, variable from 0.5 - 10 µl	3	70,000
	1-channel pipette, variable from 2 - 20 µl	2	
	Variable Volume Pipette 20-200 µl	2	
	Variable Volume Pipette 100-1000 µl	2	
	Racks suitable for pipettes offered, at least 4 positions	3	
2	1KVA Online UPS, 15 mins backup	1	1,75,000

	3 KVA online UPS, atleast 3 Hr backup	2	
3	freezer (-20)-140L	2	80,000
4	Refrigerator-165 L	1	12,000
5	PCR Workstation	2	2,65,000
6	Vortex Mixer	2	30,000
7	Water Bath	1	15,000
8	Microfuge/Mini spin	1	10,000
9	Microliter centrifuge	1	45,000
10	Thermocycler	2	3,15,000
11	Universal Oven-32 L	1	15,000

*In case, the Bidder quotes for more than one Schedule, the Average Annual Turnover will be cumulative i.e. the sum of turnover required for multiple no. of Schedules quoted.

4. The documentary evidence of conformity of the goods and services to the Bidding Documents may be in the form of **brochure / technical literature.**
5. Copy of at least two purchase orders for supply of similar product during last three (3) years as on date of opening of technical bid.
6. Technical compliance statement of quoted item against required specifications of tender, as per format enclosed under technical specifications at Section III. The quoted product must meet the specifications of the product mentioned in the RFQ. Confirmation for acceptance of all Terms & conditions of the RFQ.
7. Confirmation for acceptance of bid validity for 90 days.
8. Confirmation of delivery timeline.
9. An undertaking (self-certificate) that the bidder hasn't been blacklisted by a central / state Government institution /World Bank/Global Fund and there has been no litigation with any government department on account of similar services.
10. Consortium or Joint Venture are not permitted.

Note: Each qualified bidder must quote for all the items with 100% quantity. Bidder who does not quote for all items with full quantity will be disqualified.

5.5 The Financial Bid should be submitted in the price format provided in the Annexure -A

<p>6. Bid Prices</p>	<p>6.1The Bidder shall indicate on the Price Schedule as per the price format provided in the Annexure- A</p> <p>6.2The prices quoted by the bidder should be on a firm and fixed basis during the performance of the contract, except for duties and taxes on finished goods. A bid submitted with an adjustable price quotation will be treated as non-responsive and will be rejected.</p>
<p>7. Currencies of Bid</p>	<p>7.1 Prices shall be quoted in Indian Rupees only.</p>
<p>8. Period of Validity of Bids</p>	<p>8.1Bids shall remain valid for the period of 90 days after the date of bid submission specified in the document.</p> <p>8.2In exceptional circumstances, prior to the expiry of the original bid validity period, the Purchaser may request that the Bidders extend the period of validity for a specified additional period. The request and the responses thereto shall be made in writing.</p>
<p>9 Alternative Proposals by Bidders</p>	<p>9.1 Alternative bids shall not be accepted. The bidder should not submit more than one bid.</p>

<p>10. Format and Signing of Bid</p>	<p>10.1 The bids consisting of the documents listed in this document shall be typed and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract.</p> <p>10.2 Any interlineations, erasures, or overwriting to correct errors made by the Bidder should be initiated by the person or persons signing the bid.</p>
<p>D. Submission of Bids</p>	
<p>11. Sealing and Marking of Bids</p>	<p>11.1 The Quotation should be submitted in double cover (Technical and Financial bid) duly sealed and prominently specifying “RFQ No. SAMS/FIND, India/RFQ/2023/29 for Procurement for Supply and Installation of laboratory Equipment with CMC at VIMSAR Burla on or before 10/10/2023 at 03:00 PM</p> <p>11.2 The quotations, that are not received duly sealed, mentioning this RFQ number and last date of receiving will not be accepted.</p>
<p>12. Deadline for Submission of Bids</p>	<p>12.1 The quotations should be submitted on or before 26/09/2023 at 03:00 PM.</p> <p>12.2 The Purchaser may, at its discretion, extend the deadline for the submission of bids.</p>
<p>13. Modification and Withdrawal of Bids</p>	<p>13.1 The bids can't be withdrawn or altered after the due date and time for the submission of bids.</p>
<p>E. OPENING AND EVALUATION OF BIDS</p>	
<p>14. Bid Opening</p>	<p>14.1 The Employer shall open Quotations received up to due date and time at 10/10/2023 at 03:30 PM. Bidders can join the opening meeting by clicking skype link https://join.skype.com/qGJrhalhIOva.</p> <p>14.2 The financial bids shall be opened by the Bid Opening Committee, through an online platform, by the Purchaser in the presence of the Bidders' authorized representatives who choose to be present, enabling them to participate in the proceedings. Details of the same will be shared with the technically qualified bidders.</p> <p>The Bidder's attendance at the opening of the proposal is optional and is at the Bidder's choice.</p>
<p>15. Clarification of Bids</p>	<p>15.1 During the evaluation of the bids, the Purchaser may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the prices or substance of the bid shall be sought, offered, or permitted, except to correct arithmetic errors identified by the Purchaser in the evaluation of the bids.</p>
<p>16. Examination of Technical Bids and Determination of Responsiveness</p>	<p>16.1 The Purchaser's determination of the responsiveness of a Technical Proposal is to be based on the contents of the Technical Proposal itself.</p> <p>16.2 The Purchaser will examine the technical bids to determine whether they are complete, whether the documents have been properly signed, and whether the bids are generally in order.</p>

16.3 The Purchaser may waive any minor informality, nonconformity, or irregularity in a bid that does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

17. Evaluation and Comparison of Bid

Preliminary Evaluation of Bids

- a. The Purchaser shall examine the Technical Proposal to confirm that all documents and technical documentation requested in RFQ have been provided, and to determine the completeness of each document submitted.
- b. The Purchaser shall confirm that the required documents and information have been provided in the Technical Proposal.
- c. Likewise, following the opening of Price Proposals, the Purchaser shall examine the Price Proposals to confirm that all documents and financial documentation have been provided and to determine the completeness of each document submitted.

Documents required for Preliminary examination

- Copy of Income Tax Return and CA certificate for last three financial years (2020-21, 2021-22 and 2022-23).
- To qualify for each Schedule, the bidder, should have achieved an average annual turnover during the last three financial years or latest (i.e. 2020-21, 2021-22 and 2022-23) as mentioned in Section – I, Instructions to Bidders, C. Preparation of Bids, Clause No. 5 Documents Constituting the Bid & Bid Submission; sub-clause no. 5.4.
- Confirmation for acceptance of all Terms & conditions of the tender.
- Confirmation for acceptance of bid validity for 90 days.
- Confirmation of delivery timeline.

Technical Evaluation

- The purchaser will technically evaluate all quotation determined to be responsive after preliminary examination.
- Thereafter, quotation of substantially technical responsive and acceptable will be compared to determine lowest evaluated responsive bidder.
- Documents required for **Technical Evaluation and Post Qualification:**
 - Technical compliance statement of quoted item against required specifications of RFQ, as per format enclosed under technical specifications at Section III.
 - Technical Catalogue / brochure of each item quoted as per proposed specifications.
 - Copy of at least two purchase orders for supply of similar product during last three (3) years as on date of opening of technical bid.

Evaluation of Price Bids

- a. The Purchaser shall evaluate Price Proposals of each Bid for which the Technical Proposal has been determined to be responsive.
- b. The Purchaser’s evaluation of a bid will take into account the total cost of the requirement inclusive of all duties, transportation cost, taxes, and other charges on DDP- final destination basis
- c. The contract shall be awarded only to the bidder who is substantially technically responsive lowest bidder.
- d. The Purchaser shall compare all substantially responsive bids to determine the lowest evaluated bid.

Technical demonstration of Goods / Equipment offered:

- Prior to contract award, the lowest evaluated substantially responsive Bidder will be requested to organize demonstration/ sample evaluation of the goods, for inspection of quality and its efficient operation and demonstration of performance parameters before Purchaser or its authorized team.
- The bidder shall arrange for demonstration of offered goods at desired location intimated later by Purchaser, at own cost, either directly or through authorized Dealer /Distributors, as the case may be, for verification by the Purchaser, whether the goods offered meets the accuracy and other quality parameters as indicated in Technical Specifications at Section IV. The bidder should be prepared to do so by keeping one sample unit of the quoted goods ready at its disposal.

F. AWARD OF CONTRACT

<p>18. Award Criteria</p>	<p>18.1 The purchaser will award the Contract to the Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid for all the items.</p>
<p>19. Performance Security</p>	<p>19.1 Within twenty-eight (28) days of the award of contract from the Purchaser, the successful Bidder, shall furnish the Performance Security of 10% amount of the total contract value as per the format given at Annexure B.</p>
<p>20. Purchaser’s Right to Accept Any Bid and to Reject Any or All Bids</p>	<p>20.1 The Purchaser reserves the right to accept or reject any bid or to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to the affected Bidder or Bidders. No reason for such action of Purchaser shall be given.</p>
<p>21. Purchaser’s right to vary quantities during the currency of the contract</p>	<p>21.1 The purchaser reserves the right to increase or decrease the quantity of goods by 25%.</p>

SECTION II. General Conditions of Contract/Order

1. Packing	1.1 The Bidder shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract.
2. Warranty	<p>2.1 Warranty of equipment should be minimum as mentioned in Section III, Technical Specifications</p> <p>2.2 Bidder assigns and passes through to Purchaser the Manufacturer's warranties on all "consumer products" as per company warranty term, wherever applicable.</p> <p>2.3 In case of any claim arising out of this warranty, the purchaser/consignee shall promptly notify the same in writing to the Bidder.</p> <p>2.4 Upon receipt of such notice, the Bidder shall, with all reasonable speed repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The Bidder shall take over the replaced parts/goods after providing their replacements and no claim whatsoever shall lie on the purchaser for such replaced parts/goods thereafter.</p>
3. Delivery Schedule	<p>3.1 Delivery schedule – The delivery schedule to VSS Institute of Medical Science and Research, Burla, Sambalpur, Odisha 768017 as per detail given below at Annexure C). The delivery (including installation and commissioning, wherever applicable) shall be made within 60 days from the date of issue of the Notification of Award.</p> <p style="text-align: center;"><u>Terms of Delivery-</u> DDP- final place of destination (as per Annexure C).</p> <p>a. The responsibility of arranging all required documents for supply of goods till final place of destinations, including Road Permits, e-way bill, unloading of goods is of the Supplier.</p> <p>b. The payment of GST to respective authority shall be the responsibility of supplier and should be included in the financial quote.</p>
4. Contract Period	4.1 The Purchase Order (PO)/Supply order issued to the selected Bidder shall be valid for 12 months from the date of issue of the PO.
5. Payment Terms	<p>5.1 The method and conditions of payment to be made to the Supplier under this tender, shall be as follows:</p> <p>i) On Delivery to Consignee: Ninety (90) percent of the supply order of the Goods delivered to the Consignee shall be paid within 60 days (two copies) of submission of following documents:-</p> <p>a. Commercial invoice, indicating the SAMS as the Purchaser on behalf of the FIND India, the PO number; Goods description, quantity, unit price, and total amount. Invoices must be signed in original and stamped or sealed with the company stamp/seal;</p>

	<p>b. Acknowledgement of receipt of Goods in good condition by the Consignee i.e., Consignment Receipt Certificate (CRC) as per format enclosed at Annexure D.</p> <p>ii) On satisfactory installation, testing & commissioning: Ten (10) percent of the supply order of Goods received shall be paid within Sixty (60) days of satisfactory installation & commissioning of the Goods and completion of training of the concerned personnel on operation and maintenance the equipment, upon submission of an invoice (indicating the SAMS as the Purchaser on behalf of FIND India, the PO number, description of payment and total amount, signed in original, stamped or sealed with the company stamp/seal) supported by the satisfactory installation, training & commissioning Certificate or Final Acceptance Certificate (FAC) issued by the Consignee as per format given at Annexure E.</p>
6. Prices	6.1 Prices charged by the Bidder for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Bidder in its bid for the duration of the Contract. Prices shall be fixed and firm for the duration of the Contract. However, GST (as and when applicable) payable shall be paid as applicable at the time of supply.
7. Liquidated Damages	7.1 If the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the contract prices as liquidated damages. Liquidated Damages at the rate of 0.5% for of the prices of any portion of stores delivered late, for each week or part thereof of delay. The maximum amount of liquidated damages shall be 10% of the contract value.
8. Jurisdiction	8.1 All disputes arising out of the contract shall be subject to the jurisdiction of the appropriate court in New Delhi, India, only.

Section - III

SCHEDULE OF REQUIREMENT AND TECHNICAL SPECIFICATIONS

A. NAME AND QUANTITY OF ITEMS TO BE DELIVERED

Sch. No.	Name of Items	Total Qty. (In Nos)
1	1-channel pipette, variable from 0.5 - 10 μ l	3
	1-channel pipette, variable from 2 - 20 μ l	2
	Variable Volume Pipette 20-200 μ l	2
	Variable Volume Pipette 100-1000 μ l	2
	Racks suitable for pipettes offered, at least 4 positions	3
2	1KVA Online UPS, 15 mins backup	1
	3 KVA online UPS, atleast 3 HR backup	2
3	Freezer (-20)-140L	2
4	Refrigerator-165 L	1
5	PCR Workstation	2
6	Vortex Mixer	2
7	Water Bath	1
8	Microfuge/Mini spin	1
9	Microliter centrifuge	1
10	Thermocycler	2
11	Universal Oven-32 L	1

Delivery to be made as per the delivery schedule mentioned in Annexure-C.

B. TECHNICAL SPECIFICATIONS

Technical Specification- General Requirements

1. **Pre requisite for equipment installation:** The pre-requisites for installation of equipment, if any, should be intimated by suppliers within 10 days of the signing of contract. Before proceeding for installation, suppliers to ensure from the consignee that pre-requisites for installation of equipment are completed on site.
2. **Installation of Equipment:** Supplier has to install the delivered equipment by certified or qualified personnel. Supplier has to perform IQ, OQ and PQ for equipment as per Manufacturer Protocols. Suppliers has to provide user training to end user during installation.
3. **Service/Maintenance:** The supplier shall have a functioning after-sale-service in India covering the whole country, including adequate infrastructure, competent and adequately staffed technical personnel with adequately provisioned spare part store allowing responding to any complaints and to repair within 7 days /replace the unit within 14 days of receipt of complaint within the warranty period
4. **Comprehensive Warranty Period & Post Warranty Period Services:**

Equipment Name	Pipette i) 0.5 -10 µl ii) 2-20 µl iii) 20-200 µl iv) 100-1000 µl
Comprehensive Warranty Period	2 years, Warranty period starts from date of receipt at site.
Services under Comprehensive Warranty	It includes following during warranty: <ul style="list-style-type: none"> • Breakdown calls to be attended as and when required. • Replacements of part, consumables etc. as and when required. • Preventive Maintenance to be carried out on an annual basis. • Calibration to be to be carried out on annual basis during the warranty period and in case of any major repair/replacement of spare part for parameters (accuracy & standard deviation for the dispensing volume with traceable to National / International Standards).

Equipment Name	i. 3 KVA online UPS, at least 3 Hr backup ii. 1 KVA online UPS, with built-in batteries, at least 15 Min backup
Comprehensive Warranty Period	3 years, Warranty period starts from installation and successful calibration of equipment at site.
Comprehensive Maintenance Services	It includes following activities during warranty & CMC Period: <ul style="list-style-type: none"> • Breakdown calls to be attended as and when required. • Preventive Maintenance to be carried out on an annual basis. <p>*Besides activities mentioned in Comprehensive Maintenance Services, it includes replacements of part, consumables etc</p>

Equipment Name	Deep Freezer (-20° C)
Comprehensive Warranty Period	3 years, Warranty period starts from successful installation and calibration of equipment at site.
Comprehensive Maintenance Services	<p>It includes following during warranty & post warranty: Breakdown calls to be attended as and when required. Preventive Maintenance to be carried out annually.</p> <p>Calibration to be done annually during the warranty & CMC period for parameters (Temperature with traceable to National / International Standards) as per manufacturer's instructions/ protocol and in case of any major repair/replacement of spare part.</p> <p>*Besides activities mentioned in Comprehensive Maintenance Services, it includes replacements of part, consumables etc.</p>
CMC Period	2 years after comprehensive warranty period

Equipment Name	Refrigerator (165- 200 L)
Comprehensive Warranty Period	3 Years, Warranty period starts from the date of receipt of equipment at site.
Services under Comprehensive Warranty	<p>It includes following during warranty:</p> <ul style="list-style-type: none"> • Breakdown calls to be attended as and when required. • It also includes replacements of part, consumables etc. during the warranty period

Equipment Name	PCR Workstation
Comprehensive Warranty Period	3 years, Warranty period starts from successful installation and calibration of equipment at site.
Comprehensive Maintenance Services	<p>It includes following during warranty & post warranty:</p> <ul style="list-style-type: none"> • Breakdown calls to be attended as and when required. • Preventive Maintenance to be carried out annually. <p>*Besides activities mentioned in Comprehensive Maintenance Services, it includes replacements of part, consumables etc.</p>
CMC Period	2 years after comprehensive warranty period

Equipment Name	Vortex
Comprehensive Warranty Period	3 Years, Warranty period starts from the date of receipt of equipment at site.
Services under Comprehensive Warranty	<p>It includes following during warranty:</p> <ul style="list-style-type: none"> • Breakdown calls to be attended as and when required. • It also includes replacements of part, consumables etc. during the warranty period

Equipment Name	Water Bath
Comprehensive Warranty Period	3 years, Warranty period starts from successful installation and calibration of equipment at site.
Comprehensive Maintenance Services	It includes following during warranty & CMC Period: <ul style="list-style-type: none"> • Breakdown calls to be attended as and when required. • Preventive Maintenance to be carried out annually. • Calibration to be done annually during the warranty & CMC period for parameters (Temperature with traceable to National / International Standards) as per manufacturer's instructions/protocol and in case of any major repair/replacement of spare part. <p>*Besides activities mentioned in Comprehensive Maintenance Services it includes replacements of part, consumables etc.</p>
CMC Period:	2 years after comprehensive warranty period

Equipment Name	Microfuge /Bench Top Minicentrifuge
Comprehensive Warranty Period	3 years, Warranty period starts from installation and successful calibration of equipment at site.
Comprehensive Maintenance Services	It includes following activities during warranty & CMC Period: <ul style="list-style-type: none"> • Breakdown calls to be attended as and when required. Preventive Maintenance to be carried out on an annual basis.*Besides activities mentioned in Comprehensive Maintenance Services, it includes replacements of part, consumables etc

Equipment Name	Microliter Centrifuge
Comprehensive Warranty Period	3 years, Warranty period starts from installation and successful calibration of equipment at site.
Comprehensive Maintenance Services	It includes following activities during warranty & CMC Period: <ul style="list-style-type: none"> • Breakdown calls to be attended as and when required. • Preventive Maintenance to be carried out on an annual basis. • Calibration to be carried out annually during warranty & CMC Period for parameters (Speed, and Time with traceable to National /International Standards) and in case of any major repair/replacement of spare parts. <p>*Besides activities mentioned in Comprehensive Maintenance Services, it includes replacements of part, consumables etc</p>
CMC Period	2 years after comprehensive warranty period

Equipment Name	PCR Thermocycler
Comprehensive Warranty Period	3 years, Warranty period starts from successful installation at site
Services under Comprehensive Warranty	<p>It includes following during warranty:</p> <ul style="list-style-type: none"> • Breakdown calls to be attended as and when required. • Replacements of part, consumables etc. as and when required. • Preventive Maintenance to be carried out on an annual basis. • Calibration to be to be carried out on annual basis during the warranty period and in case of any major repair/replacement of spare part for parameters (accuracy & standard deviation for the dispensing volume with traceable to National / International Standards). <p>Besides activities mentioned in Comprehensive Maintenance Services include replacements of part, consumables etc. during the warranty period</p>
CMC Period:	2 years after comprehensive warranty period

Equipment Name	Universal Hot Air Oven (32 L)
Comprehensive Warranty Period	3 years, Warranty period starts from successful installation and calibration of equipment at site.
Comprehensive Maintenance Services	<p>It includes following during warranty & CMC Period:</p> <ul style="list-style-type: none"> • Breakdown calls to be attended as and when required. • Preventive Maintenance to be carried out annually. • Calibration to be done annually during the warranty & CMC period for parameters (Temperature) with traceable to National / International Standards) as per manufacturer's instructions/protocol and in case of any major repair/replacement of spare part. <p>*Besides activities mentioned in Comprehensive Maintenance Services it includes replacements of part, consumables etc. during the warranty period</p>
CMC Period	2 years after comprehensive warranty period

5. **Equipment Manual:** Installation, Operator, Maintenance/Service manuals in English should be provided with each equipment.
6. **Spare part list:** Bidder to submit the spare part list including the cost for quoted equipment
7. **Accessories list:** Bidder to submit the accessories list including the cost for quoted equipment
8. **Factory Calibrated Certificate:** Equipment must be supplied with valid calibration certificate stating that the equipment has been calibrated at factory.
9. **Packing data**

Packing data are not necessarily part of the bidding process but are needed for shipment and for customs declarations.

Dimensions (W × H × D) in cm.

Appliances must be transported upright (Y/N). Customer's tariff number.

- 10.** The design and workmanship of equipment offered, including power supply, has to be suited to operate properly and continuously under the climatic conditions in India, especially humidity (e.g. <90% at 35°C), permissible ambient temperature (e.g. +5°C to +45° C), protection against fungi, and possible spikes in the electric network.
- 11.** ISO 9001: The manufacturer must have Manufacturer System Certified to ISO 9001.
- 12.** Safety standards: The equipment must comply with ISI certification as per BIS Standards or any equivalent international safety standards such as IEC- 61010 and IEC-60601 etc
- 13. Equipment Manual:** Installation, Operator, Maintenance/Service manuals in English should be provided with each equipment.
- 14. Factory Calibrated Certificate:** Equipment must be supplied with valid calibration certificate stating that the equipment has been calibrated at factory.

Technical Specifications – Specific Requirements

Sch. No. 1 : MICROLITER PIPETTES AND RACKS SUITABLE FOR PIPETTES OFFERED, AT LEAST 4 POSITIONS

Description of function and use: Microliter pipettes are used for molecular biology procedures; a set of different volumes is required such as of 0.5 to 10 μ L, 2-20 μ L, 20-200 μ L and 100-1000 μ L

Main specifications

Single-channel microlitre pipettes.

Fully autoclavable (121 °C); UV-resistant material.

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

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.

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.

Racks Suitable for pipettes offered, at least 4 positions**Technical Specifications**

(a) Made of Poly propylene/acrylic, racks suitable for standard pipettes, 4 positions

(c) High chemical resistant (at least to bleach, phenol and alcohol)

Sch. No. 2 : A-3 KVA online UPS, at least 3 Hr backup and B-1 KVA online UPS, with built-in batteries, at least 15 Min backup

A. Uninterrupted Power Source (3KVA) with at least 3 Hr Battery backup

Main specifications:

- UPS: microprocessor controlled, online continuous transducer, at least 180 minutes backup.
- Booster function to regulate up voltage breakdown to 170 V.
- Buck function to regulate down voltage increase up to 280 V.
- Filter to protect against voltage spikes.
- Protection against overload and short circuit.
- Advanced battery check for automated periodic battery inspection.
- Indicators for status (e.g. normal function, net down, working on battery, loading battery, battery capacity).
- Sleep mode if item consuming power is shut off.
- Power: 230 V \pm 25%, 50 Hz or 60 Hz (\pm 10%) with automatic recognition.
- Battery: maintenance-free, automatic shut-off before reaching the level of discharge from which recharging to the original capacity will no longer be possible.
- Time for recharging: approximately 4 hours to reach at least 90% of total capacity.
- Outlet voltage: 230 V \pm 3%, 50 or 60 Hz \pm 0.5% (if the country's standard voltage is 110 V AC, adjustment will be needed).
- Efficiency coefficient: approximately 98%, on battery >85%.
- Noise at 1 m distance <48 dBA.
- Permissible ambient temperature and relative humidity: 0–40 °C and 95% (not condensing).

Electricity requirements

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 2400 W (depending on the model chosen).

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.

Quality and safety standards met by the product to be listed.

Accessories

- Battery pack.
- Connection (cable and fittings) for battery pack.
- Stand

Operation, maintenance, and installation

Operation and maintenance manual

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

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 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.

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 UPS to be accompanied by an authorized list of accessories and spare parts.
B. Uninterrupted Power Source (1 KVA) with built-in batteries, at least 15 Min Battery backup
Main specifications:
- UPS: microprocessor controlled, online continuous transducer, with built-in batteries, at least 15 Min Battery backup.
- Booster function to regulate up voltage breakdown to 170 V.
- Buck function to regulate down voltage increase up to 280 V.
- Filter to protect against voltage spikes.
- Protection against overload and short circuit.
- Advanced battery check for automated periodic battery inspection.
- Indicators for status (e.g. normal function, net down, working on battery, loading battery, battery capacity).
Sleep mode if item consuming power is shut off.
- Power: 230 V \pm 25%, 50 Hz or 60 Hz (\pm 10%) with automatic recognition.
- Battery: maintenance-free, automatic shut-off before reaching the level of discharge from which recharging to the original capacity will no longer be possible.
- Outlet voltage: 230 V \pm 3%, 50 or 60 Hz \pm 0.5% (if the country's standard voltage is 110 V AC, adjustment will be needed).
- Efficiency coefficient: approximately 98%, on battery >85%.
- Noise at 1 m distance <48 dBA.
- Permissible ambient temperature and relative humidity: 0–40 °C and 95% (not condensing).
Electricity requirements
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 900 W (depending on the model chosen).
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.
Quality and safety standards met by the product to be listed.
Accessories
- Stand for UPS
Operation, maintenance, and installation
Operation and maintenance manual
At least one set of operation, maintenance, and service manuals, written in United Nations languages (or at least in English) and preferably also in the official national language of the country requesting the UPS.
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 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.
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 UPS to be accompanied by an authorized list of accessories and spare parts.

Sch. No. 3 : DEEP FREEZER (-20 °C)

Description of function and use: The freezer is mainly used to store strains, enzymes and other temperature-sensitive reagents.
Main specifications
- 100% CFC- free.
- One-door freezer, to be used as free-standing freezer.
- Capacity (gross): ≥140 liters (up to 200L).
- Dimensions (W × D × H): approximately 60 cm × 60 cm × 85 cm.
- Net (interior compartment) W × D × H: approximately 47 cm × 43 cm × 69 cm.
- Cooling system, static.
- Defrosting of freezing compartment, initiated manually.
- Temperature range of freezer compartment: –9 °C to – 25 °C which can be set by user for specific temperature
- Housing material and door: steel, coated, white.
- Polyurethane foam “PUF” insulation
- Door hinges right or left as desired, reversible.
- Fungus-resistant door gasket.
- Door with key lock.
- Adjustable feet for levelling.
- Interior container made of white plastic. At least three shelves with wire baskets. Optional -Four shelves in the freezing compartment, at least three closed with a freezing flap.
- External digital temperature display for freezer compartment with high accuracy sensor mounted inside the chamber suspended in air.
- 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.
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: 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
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.
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 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.

Bidders may propose products additional to the requirements listed above

Sch. No. 4: REFRIGERATOR (165-200L)

Technical Specifications:
Vertical, capacity 165lts or more (up to 200L), frost free, CFC free, single door.
Household refrigerator.
Equipment quoted should comply with Indian Standards Institutions Guidelines or any other National or International Guidelines.
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. Voltage regulator of appropriate rating to be included to cope with 160-260 V.

Sch. No. 5 : PCR-WORKSTATION, UV LIGHT

Description of function and use: The workstation is used to prepare reagents under clean conditions to avoid contamination with DNA.
Main specifications
Exterior dimensions (H × W × D): approximately 700 mm × 750 mm × 600 mm.
Interior working area (W × D): approximately 700 mm × 500 mm.
Exterior: stainless steel or powder-coated metal.
Interior: stable formed stainless steel.
Side panels transparent, able to absorb wavelengths below 400 nm.
Overhead UV light for DNA decontamination; two lamps, 25 W each.
Separate, switchable, UV air-sterilizing circulation unit; UV lamp (25 W).
Timer and key lock for UV lamp; timer operates only when key lock is on.
Overhead white light; 15 W; at least 800 lux.
At least two plug outlets built into the chamber; AC 230 ± 10 V; 50 Hz; 5A fuse.
Electricity requirements
Supply voltage: 230 ± 10 V, AC, 50/60 Hz.
Voltage and plugs to be adapted to meet the country's 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 (if applicable).
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

Sch. No. 6 : VORTEX
Purpose and use: The mini-shaker is for use in a BSC
Technical Specifications:
- Adjustable speed: 100 to 3,000 rpm, continuous and intermittent "touch-control" modes,
- 220-230 Volts, AC, 50HZ; The line cord / Power cord supplied with the equipment shall be of acceptable durability, length, and current carrying capacity complying with Indian Standards.
- Cup heads size: 25 mm dia. x 22 mm deep for mixing contents in McCartney bottles.
- Heavy cast-metal base and suction cup to assure stability, prevent "walking".
- Disinfect able
- Remarks: Equipment quoted should comply with Indian Standards Institutions Guidelines or any other National or International Guidelines.

Sch. No. 7 : WATER BATH
Technical Specifications:
- Stainless Steel, insulated double walled,
- Inner wall of stainless steel,
- Thermostatic temp. control from ambient to 85 - 90° C ($\Delta 0.50$) complete with immersion heater,
- Aluminium /SS cover,
- Brass drain cock,
220-240 volts AC, 50Hz. The line cord / Power cord supplied with the equipment shall be of acceptable durability, length, and current carrying capacity complying with Indian Standards.
- Dimensions outside: - (approx.)36x41x25 cms; inside: - (approx.)27x30x15 cms; Capacity not given because the dimensions specified are required for the proper functioning of the water bath in the Laboratory for optimum utilization of the space.
- Power: (approx.) 1500 W.
- Digital microprocessor display to set temperature point preventing thermal runaway,
- Seamless reservoir with no welds to leak or rust, see- through cover is hinged and removable, and steeply gabled to accept taller samples.

Sch. No. 8 : MICROFUGE/BEMCH TOP MINI CENTRIFUGE**Main specifications:**

- Small compact size benchtop centrifuge with limited power, generally use to perform quick spin downs and other activities related to sample preparation. Ideal for quick spin-downs of reaction-tubes. Easy to use function.
- Dimensions - W×D×H: 160×140×120 mm Approx.
- With START, STOP & OPEN key
- Safety feature: Stops when lid is open with provision of emergency lid open.
- Rotor: Fixed angle Rotor, circular for: 6 x 1.5- and 2.0-ml tubes. Rectangular for two 8 x 0.2ml PCR tube-strips or 16 individual 0.2 ml PCR tubes.
- RPM -6,000 (2000 x g)
- Rust free and Resistance to bleach and other disinfectants
- Electrical: 220-230 Volts, AC, 50HZ; The line cord / Power cord supplied with the equipment shall be of acceptable durability, length and current carrying capacity complying with Indian Standard

Sch. No. 9 : MICROLITER CENTRIFUGE

Description of function and use: The centrifuge is designed for routine applications in molecular biology.

Main specifications

- Robust metal housing; compact design with chemical-resistant (coated) housing.
- Easy-to-clean, smooth rotor chamber that is resistant to acids, alkaline, disinfectants used in the laboratory.
- Low access height (≤ 23 cm) and space-saving design (≤ 24 cm \times 32 cm; W \times D).
- Microprocessor-controlled centrifuge.
- Standard rotor with a capacity of at least 18 positions; aerosol-tight (chemical-resistant coated); exchangeable.
- Maintenance-free motor.
- Maximal relative centrifuge force: 15,000 G.
- Automatic lid lock, starting with and during run of rotor.
- Option: Automatic opening at the end of the run.
- Emergency unlock for electricity blackout.
- LCD display; protected; showing time and relative centrifugal force or speed in rcf or rpm.
- Speed adjustable in 100 rpm steps.
- If a keypad is used, it should be foil protected.
- Timer for runs between 30 seconds and 30 minutes and an option for continuous operation for longer runs.
- Short time operation by pressing a time button for short spin.
- Adjustment of running time in steps of 30 seconds.
- Short acceleration time to maximum rcf in ≤ 20 seconds.
- Short breaking time from maximum rcf in ≤ 20 seconds.
- Noise level: ≤ 58 dbA.

Electricity requirements

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 250 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.
One certificate to state that the centrifuge has been calibrated at the factory.
Quality and safety standards met by the product must be listed.
Accessories
Optional: Adapter set; reduction device for smaller tubes to be centrifuged in the standard rotor to maximal rotor capacity, for 0.5 ml and 0.2 ml tubes.
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 microlitre centrifuge.
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 microlitre centrifuge 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 must specify the quantity of every item included in their offer (including items not specified above).
Spare parts
Each centrifuge 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, ambient temperatures of 5–40 °C, fungi, and spikes in the electricity supply.
Bidders may propose additional products to the requirements listed above.

Sch. No. 10 : PCR THERMOCYCLER
Description of function: The thermocycler is used in a TB laboratory to amplify fragments of mycobacterial DNA.
Main specifications
Thermocycler, Peltier elements.
Block for 96 × 0.2 ml tubes; possibility to use block with 48 × 0.5 ml tubes and 96-well PCR plates.
Blocks must be resistant to oxidation.
Heating rate: 4 °C/s.
Cooling rate: 2 °C/s.
Temperature range (block): 4–100 °C.
Regulating accuracy for block temperature: ±0.1 °C.
Temperature uniformity at 70 °C (block): ±0.4 °C.
Internal memory for at least 50 programs with up to 99 steps/program, freely editable.
Heatable lid with automatic height adaptation.
Electromechanical lid blocking to prevent accidental opening during a run.
Temperature range for lid: 80 °C to at least 103 °C.
Optional: Interface for remote control via PC; activated RS 232 serial port.

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: Approximately 500 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.
One certificate to state that the thermocycler has been calibrated at the factory and certified according to ISO 13485 quality regulations.
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 thermocycler.
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 thermocycler 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 thermocycler to be accompanied by an authorized list of accessories and spare parts.
Set of fuses, if used separately in the instrument.
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.

Sch. No. 11 : UNIVERSAL HOT AIR OVEN (32 L)

Description of function and use: Hot Air oven of smaller capacity i.e. 32 L is needed for DNA extraction in the processing room
Technical Specifications:
Thermostatically controlled, temperature range ambient to 250°C with fine and coarse adjustment, Memmert type, with fan, digital display.
Approx. overall size 40 cm (L) x 32cm (H) x 25 cm (B), Volume of interior housing: Approx- 32 liters
Housing: preferably stainless steel or at least with a durable, corrosion resistant coating of metal (e.g. galvanized sheet metal coated with epoxy, hardened by heat treatment).

Stainless steel (SS) interiors with supports on three sides, adjustable three perforated shelves.
Fan convection to ensure uniform temperature, fitted with load indicator and safety thermostat take over indicator lamp.
Temperature variation +1 deg C, LCD/LED indicator.
The apparatus should conform to latest IS6365-1971 in Indian Standard Specification for Laboratory Electric Ovens or equivalent National or International Standards covering Markings, tests and Safety requirements. Voltage Regulator of appropriate rating to be included to cope with 160- 260V. The line cord / Power cord supplied with the equipment shall be of acceptable durability, length, and current carrying capacity complying with Indian Standards.

C. Technical Compliance Statement Format

Sch. No. 1 : MICROLITER PIPETTES AND RACKS SUITABLE FOR PIPETTES OFFERED, AT LEAST 4 POSITIONS			
Required Bid Specification		Bidder's Specification (technical compliance/ Deviation, if any)	
Description of function and use: Microliter pipettes are used for molecular biology procedures; a set of different volumes is required such as of 0.5 to 10µL, 2-20 µL, 20-200 µL and 100-1000 µL			
Main specifications a) Single-channel microlitre pipettes.b) Fully autoclavable (121 °C); UV-resistant material. c) Three defined stops (single-button operation preferred): <ul style="list-style-type: none"> - take-up from the first stop - dispensing and blow out - tip ejection. d) Easy and safe tip ejection mechanism. e) Fixation of adjusted volume. f) Slim pipette shaft. g) Cone for standard tips.			
Pipette for Range	Increment	Accuracy	Precision
0.5 to 10 µL	0.1 µL	At least ±5.0–1.0%	At least 3.0–0.4%
2 to 20 µL	0.1 µL	±3.0-1.0%	2.5-0.4%
20 to 200 µL	1 µL	±1.8-0.6%	0.7 to 0.2%
100 to 1000 µL	5 µL	±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			
Documentation Manufacturer's certificate a) The manufacturer must have a management system certified to ISO 9001. b) One certificate to state that the pipette has been calibrated at the factory. c) 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

- a) 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).
- b) A maintenance kit, with full documentation and tools for in-laboratory calibration according to ISO 9000, are part of the procurement.
 - Spare parts
 - Gaskets/O-ring.
 - Lubricants.
 - Each microliter pipette to be accompanied by an authorized list of accessories and spare parts.

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.

Racks Suitable for pipettes offered, at least 4 positions**Technical Specifications**

- (a) Made of Poly propylene/acrylic, racks suitable for standard pipettes, 4 positions
- (c) High chemical resistant (at least to bleach, phenol and alcohol)

Sch. No. 2 : A-3 KVA online UPS, at least 3 Hr backup and B-1 KVA online UPS, with built-in batteries, at least 15 Min backup

Required Bid Specification	Bidder's Specification (technical compliance/ Deviation, if any)
<p>A. Uninterrupted Power Source (3KVA) with at least 3 Hr Battery backup Main specifications:</p> <ul style="list-style-type: none"> a) UPS: microprocessor controlled, online continuous transducer, at least 180 minutes backup. b) Booster function to regulate up voltage breakdown to 170 V. c) Buck function to regulate down voltage increase up to 280 V d) Filter to protect against voltage spikes e) Protection against overload and short circuit f) Advanced battery check for automated periodic battery inspection g) Indicators for status (e.g. normal function, net down, working on battery, loading battery, battery capacity. h) Sleep mode if item consuming power is shut off. i) Power: 230 V \pm 25%, 50 Hz or 60 Hz (\pm 10%) with automatic recognition. j) Battery: maintenance-free, automatic shut-off before reaching the level of discharge from which recharging to the original capacity will no longer be possible. k) Time for recharging: approximately 4 hours to reach at least 90% of total capacity. l) Outlet/output voltage: 230 V \pm 3%, 50 or 60 Hz \pm 0.5% (if the country's standard voltage is 110 V AC, adjustment will be needed) m) Efficiency coefficient: approximately 98%, on battery >85%. - Noise at 1 m distance <48 dBA. n) Permissible ambient temperature and relative humidity: 0–40 °C and 95% (not condensing). 	
<p>Electricity requirements 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.</p>	
<p>Power consumption: Approximately 2400 W (depending on the model chosen). Protection class (in accordance with EN 60529). Designed not to interfere with circuit radio (in accordance with EN 55014).</p>	
<p>Documentation Manufacturer's certificate The manufacturer must have a management system certified to ISO 9001.</p>	
<p>Quality and safety standards met by the product to be listed.</p>	
<p>Accessories</p> <ul style="list-style-type: none"> - Battery pack. - Connection (cable and fittings) for battery pack. - Stand 	
<p>Operation, maintenance, and installation Operation and maintenance manual At least one set of operation, maintenance, and service manuals, written in United Nations languages (or at least in English) and preferably also in the official national language of the country requesting the UPS.</p>	

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 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.

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

B. Uninterrupted Power Source (1 KVA) with built-in batteries, at least 15 Min Battery backup**Main specifications:**

- UPS: microprocessor controlled, online continuous transducer, with built-in batteries, at least 15 Min Battery backup.
- Booster function to regulate up voltage breakdown to 170 V.
- Buck function to regulate down voltage increase up to 280 V.
- Filter to protect against voltage spikes.
- Protection against overload and short circuit.
- Advanced battery check for automated periodic battery inspection.
- Indicators for status (e.g. normal function, net down, working on battery, loading battery, battery capacity). Sleep mode if item consuming power is shut off.
- Power: 230 V \pm 25%, 50 Hz or 60 Hz (\pm 10%) with automatic recognition.
- Battery: maintenance-free, automatic shut-off before reaching the level of discharge from which recharging to the original capacity will no longer be possible.
- Outlet voltage: 230 V \pm 3%, 50 or 60 Hz \pm 0.5% (if the country's standard voltage is 110 V AC, adjustment will be needed).
- Efficiency coefficient: approximately 98%, on battery >85%.
- Noise at 1 m distance <48 dBA.
- Permissible ambient temperature and relative humidity: 0–40 °C and 95% (not condensing).

Electricity requirements

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 900 W (depending on the model chosen).

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.

Quality and safety standards met by the product to be listed.

Accessories

- Stand for UPS

Operation, maintenance, and installation

Operation and maintenance manual

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

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 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.

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 UPS to be accompanied by an authorized list of accessories and spare parts

Sch. No. 3 : DEEP FREEZER (-20 °C)

Required Bid Specification	Bidder's Specification (technical compliance/ Deviation, if any)
<p>Description of function and use: The freezer is mainly used to store strains, enzymes and other temperature-sensitive reagents.</p>	
<p>Main specifications</p> <ul style="list-style-type: none"> - 100% CFC- free. - One-door freezer, to be used as free-standing freezer. - Capacity (gross): ≥140 liters (up to 200L). - Dimensions (W × D × H): approximately 60 cm × 60 cm × 85 cm. - Net (interior compartment) W × D × H: approximately 47 cm × 43 cm × 69 cm. - Cooling system, static. - Defrosting of freezing compartment, initiated manually. - Temperature range of freezer compartment: –9 °C to – 25 °C which can be set by user for specific temperature - Housing material and door: steel, coated, white. - Polyurethane foam “PUF” insulation - Door hinges right or left as desired, reversible. - Fungus-resistant door gasket. - Door with key lock. - Adjustable feet for levelling. - Interior container made of white plastic. At least three shelves with wire baskets. Optional -Four shelves in the freezing compartment, at least three closed with a freezing flap. - External digital temperature display for freezer compartment with high accuracy sensor mounted inside the chamber suspended in air. - 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. 	
<p>Electricity requirements</p> <p>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.</p> <p>Power consumption: Approximately 150 W.</p> <p>Conform to Indian Electrical Safety standards or International standards like IEC 60601–1, UL 61010–1, EN 61010–1.</p> <p>Protection class (in accordance with EN 60529).</p>	
<p>Documentation</p> <p>Manufacturer's certificate</p> <ul style="list-style-type: none"> - 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. <p>Quality and safety standards met by the product must be listed.</p> <p>Operation, maintenance and installation</p> <p>Operation and maintenance manual</p> <p>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.</p>	

<p>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</p>	
<p>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).</p>	
<p>Spare parts Each freezer to be accompanied by an authorized list of accessories and spare parts.</p>	
<p>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</p>	

Sch. No. 4: REFRIGERATOR (165-200L)

Required Bid Specification	Bidder's Specification (technical compliance/ Deviation, if any)
<p>Technical Specifications: Vertical, capacity 165lts or more (up to 200L), frost free, CFC free, single door. Household refrigerator. Equipment quoted should comply with Indian Standards Institutions Guidelines or any other National or International Guidelines. Supply voltage: 230 ± 10 V, AC, 50/60 Hz. Voltage and plugs to be adapted to meet the country requirements.</p>	
<p>The line cord / Power cord supplied with the equipment shall be of acceptable durability, length, and current carrying capacity complying with Indian Standards. Voltage regulator of appropriate rating to be included to cope with 160-260 V.</p>	

Sch. No. 5 : PCR-WORKSTATION, UV LIGHT

Required Bid Specification	Bidder's Specification (technical compliance/ Deviation, if any)
<p>Description of function and use: The workstation is used to prepare reagents under clean conditions to avoid contamination with DNA</p>	
<p>Main specifications Exterior dimensions (H × W × D): approximately 700 mm × 750 mm × 600 mm. Interior working area (W × D): approximately 700 mm × 500 mm. Exterior: stainless steel or powder-coated metal. Interior: stable formed stainless steel. Side panels transparent, able to absorb wavelengths below 400 nm. Overhead UV light for DNA decontamination; two lamps, 25 W each. Separate, switchable, UV air-sterilizing circulation unit; UV lamp (25 W). Timer and key lock for UV lamp; timer operates only when key lock is on. Overhead white light; 15 W; at least 800 lux. At least two plug outlets built into the chamber; AC 230 ± 10 V; 50 Hz; 5A fuse.</p> <p>Electricity requirements</p>	
<p>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.</p>	
<p>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).</p>	
<p>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.</p>	
<p>Quality and safety standards met by the product must be listed. Operation, maintenance and installation</p>	
<p>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.</p>	
<p>Installation and maintenance</p>	

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).

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

Sch. No. 6 : VORTEX

Required Bid Specification		Bidder's Specification (technical compliance/ Deviation, if any)
Purpose and use: The mini-shaker is for use in a BSC		
Technical Specifications: - Adjustable speed: 100 to 3,000 rpm, continuous and intermittent "touch-control" modes, - Cup heads size: 25 mm dia. x 22 mm deep for mixing contents in McCartney bottles. - Heavy cast-metal base and suction cup to assure stability, prevent "walking". - Disinfect able		
- Should work on 220-230 Volts, AC, 50HZ; The line cord / Power cord supplied with the equipment shall be of acceptable durability, length, and current carrying capacity complying with Indian Standards. - Remarks: Equipment quoted should comply with Indian Standards Institutions Guidelines or any other National or International Guidelines.		

Sch. No. 7 : WATER BATH

Required Bid Specification		Bidder's Specification (technical compliance/ Deviation, if any)
<p>Technical Specifications:</p> <ul style="list-style-type: none"> - Stainless Steel, insulated double walled, - Inner wall of stainless steel, - Thermostatic temp. control from ambient to 85 - 90° C ($\Delta 0.50$) complete with immersion heater, - Aluminium /SS cover, - Brass drain cock, - Dimensions outside: - (approx.)36x41x25 cms; inside: - (approx.)27x30x15 cms; Capacity not given because the dimensions specified are required for the proper functioning of the water bath in the Laboratory for optimum utilization of the space. - Digital microprocessor display to set temperature point preventing thermal runaway, - Seamless reservoir with no welds to leak or rust, see- through cover is hinged and removable, and steeply gabled to accept taller samples. 		
<p>Electrical Requirements:</p> <p>Should work on 220-240 volts AC, 50Hz. The line cord / Power cord supplied with the equipment shall be of acceptable durability, length, and current carrying capacity complying with Indian Standards.</p> <ul style="list-style-type: none"> - Power: (approx.) 1500 W. 		

Sch. No. 8 : MICROFUGE/BEMCH TOP MINI CENTRIFUGE

Required Bid Specification	Bidder's Specification (technical compliance/ Deviation, if any)
<p>Main specifications:</p> <ul style="list-style-type: none"> • Small compact size benchtop centrifuge with limited power, generally use to perform quick spin downs and other activities related to sample preparation. Ideal for quick spin-downs of reaction-tubes. Easy to use function. • Dimensions - WxDxH: 160x140x120 mm Approx. • With START, STOP & OPEN key • Safety feature: Stops when lid is open with provision of emergency lid open. • Rotor: Fixed angle Rotor, circular for: 6 x 1.5 and 2.0 ml tubes. Rectangular for two 8 x 0.2ml PCR tube-strips or 16 individual 0.2 ml PCR tubes. • RPM -6,000 (2000 x g) • Rust free and Resistance to bleach and other disinfectants 	
<ul style="list-style-type: none"> • Electrical: 220-230 Volts, AC, 50HZ; The line cord / Power cord supplied with the equipment shall be of acceptable durability, length and current carrying capacity complying with Indian Standard 	

Sch. No. 9 : MICROLITER CENTRIFUGE

Required Bid Specification		Bidder's Specification (technical compliance/ Deviation, if any)
Description of function and use: The centrifuge is designed for routine applications in molecular biology.		
Main specifications <ul style="list-style-type: none"> - Robust metal housing; compact design with chemical-resistant (coated) housing. - Easy-to-clean, smooth rotor chamber that is resistant to acids, alkaline, disinfectants used in the laboratory. - Low access height (≤ 23 cm) and space-saving design (≤ 24 cm \times 32 cm; W \times D). - Microprocessor-controlled centrifuge. - Standard rotor with a capacity of at least 18 positions; aerosol-tight (chemical-resistant coated); exchangeable. - Maintenance-free motor. - Maximal relative centrifuge force: 15,000 G. - Automatic lid lock, starting with and during run of rotor. - Option: Automatic opening at the end of the run. - Emergency unlock for electricity blackout. - LCD display; protected; showing time and relative centrifugal force or speed in rcf or rpm. - Speed adjustable in 100 rpm steps. - If a keypad is used, it should be foil protected. - Timer for runs between 30 seconds and 30 minutes and an option for continuous operation for longer runs. - Short time operation by pressing a time button for short spin. - Adjustment of running time in steps of 30 seconds. - Short acceleration time to maximum rcf in ≤ 20 seconds. - Short breaking time from maximum rcf in ≤ 20 seconds. - Noise level: ≤ 58 dbA. 		
Electricity requirements 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 250 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. One certificate to state that the centrifuge has been calibrated at the factory.		
Quality and safety standards met by the product must be listed.		
Accessories : Optional: Adapter set; reduction device for smaller tubes to be centrifuged in the standard rotor to maximal rotor capacity, for 0.5 ml and 0.2 ml tubes.		
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 microlitre centrifuge.	
<p>Installation and maintenance</p> <p>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 microlitre centrifuge within 14 days</p>	
<p>Standard maintenance tools</p> <p>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 must specify the quantity of every item included in their offer (including items not specified above).</p>	
<p>Spare parts</p> <p>Each centrifuge to be accompanied by an authorized list of accessories and spare parts.</p>	
<p>Remarks</p> <p>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, ambient temperatures of 5–40 °C, fungi, and spikes in the electricity supply. Bidders may propose additional products to the requirements listed above.</p>	

Sch. No. 10 : PCR THERMOCYCLER

Required Bid Specification	Bidder's (technical Deviation, if any) Specification compliance/
Description of function: The thermocycler is used in a TB laboratory to amplify fragments of mycobacterial DNA.	
<p>Main specifications Thermocycler, Peltier elements. Block for 96 × 0.2 ml tubes; possibility to use block with 48 × 0.5 ml tubes and 96-well PCR plates. Blocks must be resistant to oxidation. Heating rate: 4 °C/s. Cooling rate: 2 °C/s. Temperature range (block): 4–100 °C. Regulating accuracy for block temperature: ±0.1 °C. Temperature uniformity at 70 °C (block): ±0.4 °C. Internal memory for at least 50 programs with up to 99 steps/program, freely editable. Heatable lid with automatic height adaptation. Electromechanical lid blocking to prevent accidental opening during a run. Temperature range for lid: 80 °C to at least 103 °C. Optional: Interface for remote control via PC; activated RS 232 serial port.</p>	
<p>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.</p>	
<p>Power consumption: Approximately 500 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).</p>	
<p>Documentation Manufacturer's certificate The manufacturer must have a management system certified to ISO 9001. One certificate to state that the thermocycler has been calibrated at the factory and certified according to ISO 13485 quality regulations.</p>	
<p>Quality and safety standards met by the product must be listed.</p>	
<p>Operation, maintenance and installation</p>	
<p>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 thermocycler.</p>	
<p>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 thermocycler within 14 days.</p>	
<p>Standard maintenance tools</p>	

<p>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).</p>	
<p>Spare parts Each thermocycler to be accompanied by an authorized list of accessories and spare parts. Set of fuses, if used separately in the instrument</p>	
<p>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.</p>	

Sch. No. 11 : UNIVERSAL HOT AIR OVEN (32 L)

Required Bid Specification	Bidder's Specification (technical compliance/ Deviation, if any)
<p>Description of function and use: Hot Air oven of smaller capacity i.e. 32 L is needed for DNA extraction in the processing room</p>	
<p>Technical Specifications: Thermostatically controlled, temperature range ambient to 250°C with fine and coarse adjustment, Memmert type, with fan, digital display. Approx. overall size 40 cm (L) x 32cm (H) x 25 cm (B), Volume of interior housing: Approx- 32 liters Housing: preferably stainless steel or at least with a durable, corrosion resistant coating of metal (e.g. galvanized sheet metal coated with epoxy, hardened by heat treatment). Stainless steel (SS) interiors with supports on three sides, adjustable three perforated shelves. Fan convection to ensure uniform temperature, fitted with load indicator and safety thermostat take over indicator lamp. Temperature variation +1 deg C, LCD/LED indicator. The apparatus should confirm to latest IS6365-1971 in Indian Standard</p>	
<p>Specification for Laboratory Electric Ovens or equivalent National or International Standards covering Markings, tests and Safety requirements. Voltage Regulator of appropriate rating to be included to cope with 160- 260V. The line cord / Power cord supplied with the equipment shall be of acceptable durability, length, and current carrying capacity complying with Indian Standards</p>	

Annexure A

Price Form

A	B	C	D	E	F	G	J
Sl. No.	Name of Items	Qty. (In Nos)	Unit Price	Total Price (C x D)	Tax Rate on Goods %age	Tax on Goods (amount)	Total Bid Price (J=E+G)
1.	1-channel pipette, variable from 0.5 - 10 µl	3					
	1-channel pipette, variable from 2 - 20 µl	2					
	Variable Volume Pipette 20-200 µl	2					
	Variable Volume Pipette 100-1000 µl	2					
	Racks suitable for pipettes offered, at least 4 positions	3					
2.	1KVA Online UPS, 15 mins backup	1					
	3 KVA online UPS, atleast 3 HR backup	2					
3.	Freezer (-20)-140L	2					
4.	Refrigerator-165 L	1					
5.	PCR Workstation	2					
6.	Vortex Mixer	2					
7.	Water Bath	1					
8.	Microfuge/Mini spin	1					
9.	Microliter centrifuge	1					
10.	Thermocycler	2					
11.	Universal Oven-32 L	1					
	Total	28					

Steps: -

- **Column D - Unit price-** Please mention the cost of the Unit price.
- **Column F - Tax rate on Goods%-** Please mention the taxes percent in digit only, for example in the case of 12%, please write 12 in the column.

Important Note: -

As per the above format, the total cost will be considered for L1, and any changes later will not be considered assuming that all prices are considered as per TOR.

Bidders are requested to submit the (company letter Head) below Price Schedule Form for the Comprehensive Maintenance Charges (CMC) for 4th & 5th Year

Sch. No.	Description of Goods and Equipment	Total Quantity (Nos.)	Unit price of 4th Year of CMC Services	Unit price of 5th Year of CMC Services	GST on CMC Services (INR)	Unit Cost for 4 th & 5 th year of CMC Service (incl. of GST)	Total Price for 4th & 5th Years of CMC Services (incl. of GST)
A	B	C	D	E	F	G= D+E+F	H= C*G
3	Freezer (-20)-140L	2					
5	PCR Workstation	2					
7	Water Bath	1					
9	Microliter centrifuge	1					
10	Thermocycler	2					
11	Universal Oven-32 L	1					

Note: Above mentioned CMC Cost after the expiry of 3 year comprehensive warranty period would not be part of the financial evaluation, which will only be submitted by bidders for future reference.

Total Price in figures and words: _____

Place: _____ **Name** _____
Date: _____ **Signature of Bidder** _____
Seal of the Bidder _____

Performance Security

Bank Guarantee

[The bank, as requested by the successful Bidder, shall fill in this form in accordance with the instructions indicated]

Beneficiary: *[insert name and Address of Purchaser]*

Date: *_ [Insert date of issue]*

PERFORMANCE GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that *_ [insert name of Supplier]* (hereinafter called "the Applicant") has entered into Contract No. *[insert reference number of the contract]* dated *[insert date]* with the Beneficiary, for the supply of *_ [insert name of contract and brief description of Goods and related Services]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in figures]* (*[insert amount in words]*),¹ such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the Day of, 2...², and any demand for payment under it must be received by us at this office indicated above on or before that date.

[signature(s)]

Note: *All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.*

¹ *The Guarantor shall insert an amount representing the percentage of the Accepted Contract Amount specified in the Letter of Acceptance.*

² *Insert the date twenty-eight days after the expected completion dates described in GC Clause 18.4. The Purchaser should note that in the event of an extension of this date for completion of the Contract, the Purchaser would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Purchaser might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months][one year], in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."*

ANNEXURE C**DELIVERY SCHEDULE - QTY. DISTRIBUTION SCHEDULE****Delivery Schedule**

Sch. No.	Name of Items	Qty.
1	1-channel pipette, variable from 0.5 - 10 µl	3
	1-channel pipette, variable from 2 - 20 µl	2
	Variable Volume Pipette 20-200 µl	2
	Variable Volume Pipette 100-1000 µl	2
	Racks suitable for pipettes offered, at least 4 positions	3
2	1KVA Online UPS, 15 mins backup	1
	3 KVA online UPS, atleast 3 HR backup	2
3	freezer (-20)-140L	2
4	Refrigerator-165 L	1
5	PCR Workstation	2
6	Vortex Mixer	2
7	Water Bath	1
8	Microfuge/Mini spin	1
9	Microliter centrifuge	1
10	Thermocycler	2
11	Universal Oven-32 L	1

The delivery (including installation and commissioning, wherever applicable) shall be made within **60 days** from the date of issue of the Notification of Award.

Sr. No.	Address	Focal Person (Site)	Tel / Mobile	Email
1	VSS Institute of Medical Science and Research, Burla, Sambalpur, Odisha 768017	Dr. Dipankar, Associate Professor (Dept. of Microbiology, VIMSAR Burla)	9179312450 9424702970	dipankarpattnaik8@gmail.com

ANNEXURE D

ACKNOWLEDGEMENT OF RECEIPT OF GOODS (FOR 90% PAYMENT)

(This certificate is to be issued to SAMS and copy to Supplier and FIND India. All the three copies 'should be signed in ORIGINAL'.)

CONSIGNEE RECEIPT CERTIFICATE (CRC)

CRC No.

Date

To
Strategic Alliance Management Services Pvt. Ltd,
B-18, Sector-06, NOIDA
Gautam Budh Nagar (U.P.)- 201301

This is to certify that the Goods as detailed below have been received and duly inspected in good condition in accordance with the Technical specifications and conditions of the Contract/ NOA and amendment if any.

Project Name	Procurement Services to Foundation for Innovative Diagnostics (FIND) India	New
Purchaser	Strategic Alliance Management Services Pvt. Ltd, on behalf of FIND India	
Contract i.e. NOA No. & Date		
Description of Goods Supplied Name of Consumables Make: Model:		
Quantity supplied in Numbers		
Name of Supplier		
Invoice No. and Date		
Date of Delivery/Receipt at Consignee Destination site		
Consignee full Address Name Address Contact No. Fax No.		

Seal and Signature of Designated Consignee

Name:
Designation:
Seal:
Contact No:
Fax No.:

ANNEXURE E**Final Acceptance Certificate (for Balance 10% Payment)**

(This certificate is to be issued to SAMS and copy to Supplier. All the three copies 'should be signed in ORIGINAL'.)

FINAL ACCEPTANCE CERTIFICATE (FAC)**FAC No.****Date:****To**

Strategic Alliance Management Services Pvt. Ltd,
B-18, Sector-06, NOIDA
Gautam Budh Nagar (U.P.)- 201301

Project Name	Procurement Services to Foundation for Innovative New Diagnostics India (FIND India)
Purchaser	Strategic Alliance Management Services Pvt. Ltd., on behalf of FIND India
Contract i.e. Notification of Award No. & Date	
Description of Goods Supplied Name of Equipment: Schedule No. as per Contract: Model: Serial No.:	
Name of Supplier	
Quantity Supplied in Numbers	
List with name of all or any accessories as per contract supplied with the equipment	
Date of Installation, testing and commissioning	
Is successful Installation, testing and commissioning of equipment supplied, upto the satisfaction of User done or not (Yes/No)	
Whether training provided to all users upto the satisfaction or not (Yes/No)	
Date of Final Acceptance	
Invoice No. and Date	
Date of entry in Asset register	
Consignee full Address Name Address Contact No.	

CERTIFICATE

This is to certify that we have received medical Equipment/ lab materials as detailed above in good condition in accordance with the Technical specifications and conditions of the NOA/ Contract and the same has been successfully Installed and Commissioned (if, applicable) on _____ to the satisfaction of all users and entered in the Asset/Consumable/Non-Consumable Register at page no. _____ on _____

Seal & Signature of Designated**Consignee****Name:****Designation:****Copy To: (with Original Stamp and signature)**

- (1) To Supplier
- (2) Procurement Officer, Foundation for Innovative New Diagnostics (FIND), Flat No. 6 & 8 – 14, 9th Floor, Vijaya Bank Building, 17, Barakhamba Road, New Delhi -110001, India