

**PREJHA Foundation Reference:  
1207-PREJHA05/20/98**

## **REQUEST FOR QUOTATION**

**FOR**

**SUPPLY OF COVID-19 Testing Lab Equipment**

**Dated: 25<sup>rd</sup> MAY 2020**

**PanIIT Alumni Reach For Jharkhand Foundation**

**A Non-profit Special Purpose Joint Enterprise between agencies of Department of Welfare,  
Government of Jharkhand and  
PanIIT Alumni Reach For India Foundation,  
Kalyan Complex, Balihar Road, Morabadi,  
Ranchi - 834008, Jharkhand**

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## DISCLAIMER

The information contained in this Request for Quotation ("RFQ") or subsequently provided to Bidder(s), whether verbally or in documentary or any other form by or on behalf of PanIIT Alumni Reach For Jharkhand Foundation (hereinafter "PREJHA") is provided to interested parties on the terms and conditions set out in this RFQ and such other terms and conditions subject to which such information is provided.

This RFQ is not an agreement and is neither an offer nor an invitation by PREJHA to interested parties who submit their quote (henceforth "Bidders") in response to this RFQ. The purpose of this RFQ is to provide Bidders with information that may be useful to them in preparing and submitting their proposals ("Proposal") for selection as supply agency with PREJHA Foundation as per notified norms.

PREJHA Foundation makes no representation or warranty and shall have no liability to any person or Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this RFQ or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the RFQ and any assessment, assumption, statement or information contained herein or deemed to form part of this RFQ or arising in any way from this process.

A Bidder must warrant that all the information provided by it to PREJHA Foundation at the time of application & subsequently, is true to the best of its knowledge and belief, and specially warrants that it has duly complied with the provisions of laws applicable to it. Bidder indemnifies PREJHA Foundation from any liabilities arising out of error or default or negligence or contravention in regard to any of the applicable laws, including, but not limited to, submission of statutory forms & other such documents.

The issue of this RFQ does not imply that PREJHA Foundation is bound to select any Bidder(s) or select any Bidder(s) for any project. PREJHA Foundation may accept or reject any proposal in its discretion and may ask for any additional information or vary its requirements, add to or amend the terms, procedure and protocol set out in RFQ for bona fide reasons, which will be notified to all the Bidders invited to tender. Further PREJHA Foundation hereby reserves its right to annul the process at any time prior to issuance of Purchase Order without incurring any liability towards the Tenderers.

The Bidder shall bear all costs associated with or relating to the preparation and submission of its Proposal including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by PREJHA Foundation or any other costs incurred regarding or relating to its Bid. All such costs and expenses will remain with the Bidder and PREJHA Foundation shall not be liable in any manner for the same or for any other costs or expenses incurred by a Bidder in preparation or submission of the Bid, regardless of the conduct or outcome of this RFQ and related processes.

## **SECTION 1: LETTER OF INVITATION**

PanIIT Alumni Reach for Jharkhand (PREJHA) Foundation invites proposals from reputed bidders for supply of covid-19 testing equipment to Prejha Foundation.

PREJHA Foundation has decided to proceed with an expedited open tender method to procure the specified Testing Equipments from suitable and/or ICMR approved suppliers.

**A bidder will be selected based on Lowest Cost Method (L1 basis) among qualified bidders matching specifications as sought and then with minimum lead time by any qualified bidder willing to match L1** from suitable agencies qualifying the criteria as per described in this RFQ.

The content of this RFQ enlists the requirements of PREJHA Foundation. It includes the **Bidding Terms& selection** procedure which details out all that may be needed by the potential bidders to understand the financial terms and bidding process and explains the contractual terms that PREJHA Foundation wishes to specify at this stage.

The RFQ includes the following sections:

**Section 1 - Letter of Invitation**

**Section 2 - Instructions to Bidders (including pre-qualification criteria)**

**Section 3 - Standard Forms**

The information may be submitted online only at the following website.

<https://eprocurement.mjunction.in/EPKV2Web/org/PREJHA/home.action>

[www.jharkhand.gov.in](http://www.jharkhand.gov.in)

Yours faithfully

Authorized signatory

**PanIIT Alumni Reach For Jharkhand Foundation,  
Kalyan Complex, Balihar Road, Morabadi,  
Ranchi – 834008, Jharkhand**

## **PREFACE**

### **About PREJHA Foundation**

Agencies of Department of Welfare, Government of Jharkhand and PanIIT Alumni Reach for India Foundation have partnered to form PanIIT Alumni Reach for Jharkhand (PREJHA) Foundation, a not-for-profit joint enterprise to implement and scale sustainable welfare initiatives.

### **Purpose of RFQ**

The objective of this assignment is to procure Lab Equipment required to setup Covid-19 testing lab for Jharkhand government. The supplying agency should adopt a process that is not only transparent, competitive but should also be quick and timely.

## Section 2: Instructions to Bidders

The evaluation criteria for the bidders is based on on Lowest Cost Method (L1 basis) among qualified bidders matching specifications as sought and then with minimum lead time by any qualified bidder willing to match L1 from suitable agencies qualifying the criteria as per described in this RFQ. **Each Bidder must submit a single proposal only and mention approximate delivery time in days in the brand column along with brand details during bid submission.**

PREJHA foundation shall endeavor to adhere to the following schedule but reserves the right to alter the same:

### Time schedule of Tender:

| Sl.No. | Particulars  | Date                 |
|--------|--|----------------------|
| 1.     | Tender e-Publication date  | 25.05.2020           |
| 2.     | Start date for seeking Clarification   | 25.05.2020           |
| 3.     | Last date for seeking clarification on line from service provider (mjunction Services Limited) | 28.05.2020(02:00PM)  |
| 4.     | Bid submission start date (only on-line bid accepted)  | 25.05.2020           |
| 5.     | Bid submission end date  | 28.05.2020 (08:00PM) |
| 6.     | Schedule date for Technical bid opening  | 28.05.2020           |
| 7.     | Comparative statement preparation by the system  | 28.05.2020           |

## General terms & Conditions:

### 1. Detailed BOQ

| Sl. No | Item Description   | Qty |
|--------|--|-----|
| 1      | <p>Refrigerated high speed centrifuge</p> <p>Technical:</p> <p>Certification: CE, CSA, TUV, or UL certified or conformity</p> <p>Temperature range: European -4 to +40°C</p> <p>Speed: 14000 RPM or more</p> <p>Display: Digital for temperature for air and chamber, time and RPM/RCF, Microprocessor controlled</p> <p>Drive system: Brushless drive</p> <p>Programmable: Programs-90-99 and with program recall facility</p> <p>Rotors: Fixed angle rotor: 24x1.5-2.0ml</p> <p>Optional Rotors: Fixed angle rotor: 24X1.5 ml tubes, 250 ml, Swing out Rotor and adapters for:</p> <p>5-10 ml tubes, 15ml, 50ml and 250 ml tubes, micro plate.</p> <p>Power Supply: 210-240V/50-60 Hz or Suitable power supply</p> <p>Warranty: 1-3 Year</p> <p>Make: Corning/EKF/Edvotek/Eisco/Eppendorf/Fisherbrand/Ohaus/GYROGEN/Thermo Scientific/Torrent/sartorius/NuAire or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p> | 3   |
| 2      | <p>Microcentrifuge with Rotor</p> <p>Specifications</p> <p>Cerification/Compliance Marks: CE, TUV, CSA, UL</p> <p>Max Speed (rpm): 14500</p> <p>Max RCF: x gl 4100</p> <p>Rotor Type: Fixed-Angle</p> <p>Rotors Included: Yes</p> <p>Timer Range: 0 to 99 minutes</p> <p>Max Capacity (mL): 24</p> <p>Tube Capacity: 12 x 1.5 to 2.0mL</p> <p>Length (cm): 24</p> <p>Width (cm): 22.9</p> <p>Height (cm): 12</p> <p>Power (VAC): 220</p> <p>Description Microcentrifuge: , 12 x 1.5/2.0 mL; 220 VAC</p> <p>Adapter for PCR tubes</p> <p>Make: Eppendorf/ Corning/EKF/Edvotek/Eisco/Fisherbrand/Ohaus/GYROGEN/Thermo Scientific/Torrent/sartorius/NuAire or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p>  | 3   |

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| 3 | <p>Quick spin Mini Centrifuge</p> <p>Speed: 6000 rpm</p> <p>Capacity: 8 x 1.5/2.0ml, 4 x 0.2ml strips</p> <p>Includes Rotor: Yes</p> <p>Maximum G: 2000</p> <p>Deceleration Time: &lt;2 seconds</p> <p>Input Voltage: 100-240V</p> <p>Compliance Marks: CE, TUV, CSA</p> <p>Warranty :1-3 years</p> <p>Make:Eppendorf/ Corning/EKF/Edvotek/Eisco/Fisherbrand/ Ohaus/GYROGEN/Thermo Scientific/Torrent/sartorius/NuAire or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p>  | 3 |
| 4 | <p>Refrigerated Microfuge</p> <p>Technical:</p> <ol style="list-style-type: none"> <li>1. Bench top, compact, Refrigerated o Temperature setting: 0 to 40°C</li> <li>2. Fast Pre cooling and should maintain +4°C at maximum speed</li> <li>3. Up to 10 programs or more</li> <li>4. Digital display showing rpm, RCF and time</li> <li>5. Speed Up to 15000 rpm</li> <li>6. Rotor for 24X 1.5 to 2 ml tubes,</li> <li>7. Adaptors for 0.5 ml and 0.2 ml tubes</li> <li>8. Auto balancing in situation of minor imbalance</li> <li>9. Electrical Requirements: 120V/60Hz and 230V/50 Hz or Suitable electrical supply</li> <li>10. CE certified or equivalent</li> </ol> <p>Make:Eppendorf/ Corning/EKF/Edvotek/Eisco/Fisherbrand/ Ohaus/GYROGEN/Thermo Scientific/Torrent/sartorius/NuAire or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p> | 6 |
| 5 | <p>VORTEX Mixer</p> <p>VOLTAGE: 220-240V</p> <p>FREQUENCY: 50 HZ</p> <p>POWER: 60 W</p> <p>SHAKING MOVEMENT: ORBITAL</p> <p>OUTER DIAMETER: 4 MM</p> <p>SPEED RANGE: 0-2500 RPM</p> <p>SPEED DISPLAY: ANALOG TYPE</p> <p>RUN TYPE: CONTINUOUS TOUCH OPERATION</p> <p>AMBIENT: 80%</p> <p>TEMPERATURE: 5-45° C</p> <p>Make: Eppendorf/Fisherbrand/BioRAD/VELP/Thomas Scientific/HEIDOLPH/Globe Scientific/Ohaus/Benchmark/Corning/NuAire/ Sartouris or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p>  | 6 |

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| 6 | <p>Adjustable Volume Single Channel Pipettes:</p> <p>Technical:</p> <p>ISO 8655 CERTIFIED, Research Grade, CE-IVD certified, fully Autoclavable, single channel pipettes of variable volume compatible with universal tips.</p> <p>Make: Eppendorf/VistaLab /BrandTech/Corning/Hach/Gilson/Thermo Fisher Scientific/Sartorius or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p>  | 36 |
| 7 | <p>Adjustable Volume Digital Multi Channel Pipettes</p> <p>Technical:</p> <p>ISO 8655 CERTIFIED, Research Grade, CE-IVD certified, fully Autoclavable, Digital multi channel pipettes of variable volume compatible with universal tips.</p> <p>Make: Eppendorf/VistaLab /BrandTech/Corning/Hach/Gilson/Thermo Fisher Scientific/Sartorius or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p>   | 36 |
| 8 | <p>Thermo Mixer/Heat Block:</p> <p>Mixing, heating, and cooling in one instrument for high flexibility</p> <p>All common vessels and plate formats from 5 µL to 50 mL by different Eppendorf SmartBlocks™ for standard applications</p> <p>Excellent 2DMix-Control technology results in excellent sample mixing</p> <p>Anti-spill technology prevents lid wetting and cross-contamination</p> <p>Increased mixing frequency of up to 3,000 rpm for effective sample mixing</p> <p>Excellent temperature management for maximum temperature accuracy, resulting in safe handling.</p> <p>Predefined program keys and clearly arranged menu guides enable simple and intuitive operations</p> <p>Freely programmable program keys for individual optimization.</p> <p>Applications:</p> <p>* Plasmid/RNA/DNA purification</p> | 3  |

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|   | <p>cDNA synthesis</p> <ul style="list-style-type: none"> <li>* Extraction of DNA fragments from agarose gels</li> <li>* Enzymatic reactions (e.g., DNA restriction digestion, Proteinase K digestion and ligation)</li> </ul> <p>Transformation of bacteria strains and plasmids</p> <p>Denaturation of DNA, RNA, and proteins</p> <p>Labeling of DNA, RNA, and proteins</p> <p>Bacterial growth in microreaction vessels, conical tubes, and Deepwell Plates</p> <p>Lysis reactions at 100 °C</p> <p>Mixing of PCR setups</p> <p>Technical:</p> <p>Max. speed: 3,000 rpm<sup>1</sup></p> <p>Mixing and vortexing radius: 1.5 mm</p> <p>Mixing frequency: 300 – 3,000 rpm<sup>1</sup></p> <p>Mixing orbit: 3 mm</p> <p>Temperature accuracy: Max. <math>\pm 0.5</math> °C at 20 – 45 °C</p> <p>Temperature settings: 1 °C / 100 °C</p> <p>Sample capacity: All common vessels and plate formats from 5 <math>\mu</math>L to 50 mL</p> <p>Timer: 5 sec to 99:30 h, continuous</p> <p>Heating rate: Max. 7 °C/min (when using SmartBlock plates)<sup>1</sup></p> <p>Cooling rate: Max. 2.5 °C/min between 100 °C and RT</p> <p>Interfaces: USB interface</p> <p>Power supply: 220 – 240 V, 50 – 60 Hz</p> <p>Max. power consumption: 200 W</p> <p>Dimensions (W <math>\times</math> D <math>\times</math> H): 20.6 <math>\times</math> 30.4 <math>\times</math> 13.6 cm / 8.1 <math>\times</math> 12.0 <math>\times</math> 5.4 in</p> <p>Weight w/o accessories : 6.3 kg / 13.9 lb</p> <p>Temperature range: Min: 15 °C below RT, max: 100 °C<sup>1</sup></p> <p>Make: Eppendorf/Thomas Scientific/Labtop/Thermo Fisher/Ohahusor Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p> |   |
| 9 | <p>Thermohygrometer:</p> <ul style="list-style-type: none"> <li>Internal temperature and humidity sensor</li> <li>- Large display</li> <li>- Second external temperature sensor</li> <li>- Display of date and time</li> <li>- Alarm function</li> <li>- Battery operation</li> </ul> <p>Dual Display Resolution : 0.1° / 1%RH</p> <p>Accuracy: <math>\pm 1</math>°C / <math>\pm 2</math>°F/<math>\pm 5</math>%RH</p> <p>Thermometer functions: °C/°F- In/out - Maxi-Mini - Ice point alert</p> <p>Hygrometer functions: Int - Máxima y Mínima</p> <p>Cable: 200 cm</p> <p>range : -50+70°C / -58+158°F / 20-99%RH</p> <p>Make: HTC/Bellstone/ARO Ferve/FLUKE/Fisher Scientific/TESTO/Digi-Sense or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p>  | 3 |

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| 10 | <p>Laboratory Refrigerator 300ltr</p> <p>Design : Double door refrigerator, Door locking system, magnetic door gasket, adjustable shelves , auto defrost facility. Digital Temperature indicator.</p> <p>Capacity: 321-350 L</p> <p>Refrigerant : CFC Free</p> <p>Controls : moisture and humidity</p> <p>Alarm &amp; Indicator : audio-visual alarm for door open and temperature fluctuation</p> <p>compressor</p> <p>on/off indicator</p> <p>Power Supply :Should include 210-240 V/50-60 Hz</p> <p>Warranty</p> <p>Company</p> <p>3 years</p> <p>make: worlpool, LG, Godrej, Samsung, remi</p>   | 3 |
| 11 | <p>Digital pH Meter:</p> <p>Technical Specifications: Must be of reputed brand, from manufacturer/Authorized dealer having installation in reputed institutes/firms.</p> <p>Design</p> <p>Electrodes</p> <p>Capability</p> <p>Compact, Table top</p> <p>Dual</p> <p>To measure pH, Temperature, mV &amp;relative mV</p> <p>Range 0 to 16.00, pH, Accuracy, + 0.01 Resolution 0.002</p> <p>Approximately 0 to 120o C, Accuracy + 0.5o C</p> <p>+ 1999, Resolution 0.1</p> <p>Display: LCD for pH and temperature readings simultaneously</p> <p>Unit able to recognize auto buffer along with custom buffer options</p> <p>Automatic as well as manual</p> <p>Automatic</p> <p>Should include 210-240V/50-60 Hz</p> <p>Make: Thomas Scientific/Labforce/Apera/Dr.meter/Bluelab /HM Digital /Thermo Orion/ Sartorius</p> | 3 |

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| 12 | <p>PCR Workstation/PCR Hood:</p> <p>Technical:</p> <p>Size: 2"x3"</p> <p>Construction: Powder coated/ epoxy-coated SS. Work surface-Good quality Stainless steel</p> <p>Lighting system: A built-in ultraviolet light for decontamination of consumables and equipment and fluorescent light for working</p> <p>Vertical laminar flow:-</p> <p>Filters: Combines an ISO 5 (FS209E) Class 100 clean air environment. 99.99%-efficient HEPA filter and disposable prefilter</p> <p>Alarms: Monitors the effectiveness of the workstation and alerts the operator if the HEPA filter or UV bulb needs replacement folding sash turns off the UV light and activates the blower and fluorescent light</p> <p>Power supply: Should include 220 V/50 Hz</p> <p>Optional: Utility ports</p> <p>Other Features:</p> <p>No installation required</p> <p>ISO 5 vertical laminar flow air</p> <p>No ductwork required</p> <p>UV shelf with built-in pipettor holder</p> <p>Seamless design -no joints or gaps</p> <p>Digital UV light timer :01-59 minutes</p> <p>Access port for electrical cords</p> <p>Make: Thomas Scientific/ESCO/Fisher Scientific/Yorko/AirClean Systems / NuAire/Expedeon/MYSTAIRE/LABCONCO/Coy Laboratory/Airfiltronix/Beckman Coulter /Yamato Scientific/Plas-Labs/Haier or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p> | 6 |
| 13 | <p>Laminar Air Flow</p> <p>Technical:</p> <p>Certification: EN12469 OR equivalent</p> <p>Design: Vertical laminar flow cabinet, Approximately 4 Feet length X 2 feet depth, 304SS interior, epoxy/powder coated exterior Door fully closing with hinged sash. Support stand, solid one piece dished work surfaces</p> <p>Circulation: Down flow velocity of 40-70 fpm, ISO Class 5 or higher air</p> <p>Filters: HEPA filter, (99.99% efficient on particles 0.3 micron)/ULPA filter (efficiency of &gt;99.999% at 0.1 to 0.3 micron sizes) provided with pre-filter)</p> <p>Light: UV and sufficient illumination for work space</p> <p>Gauges: For monitoring the condition of all HEPA filters as well as work space.</p> <p>Power Supply: Should include 210-240V/50-60 Hz</p> <p>Make: Thomas Scientific/ESCO/Fisher Scientific/Yorko/AirClean Systems / NuAire/Expedeon/MYSTAIRE/LABCONCO/Coy Laboratory/Airfiltronix/Beckman Coulter /Yamato Scientific/Plas-Labs/Haier or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p>  | 6 |

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| 14 | <p>Deep freezer - (-)80 deg C</p> <p>Technical:</p> <p>Galvanized steel sheet body with epoxy paint and vacuumed polyurethane foam panels, outer double door with locking facility. Alarm for audible &amp; visual fault acknowledgement, low &amp; high temperature audio visual alarms, condenser fault alarm, remote contact alarm, open door alarm, clean filter Indicator and power failure alarm. Castor wheels &amp; leveling adjustor should be provided for adjustment and installation.</p> <p>Capacity: Approximately 650- 700L</p> <p>Refrigerant: CFC &amp;HCFC</p> <p>Cooling system: Cascade cooling system</p> <p>Doors: Triple silicon section seal, Fitted with decompression valve facility to lower air pressure inside the freezer for easy door opening.</p> <p>Inner Compartment: Minimum 3 compartments with doors</p> <p>Temperature: Range-20 to -80°C, Stability+/-1°C, uniformity+/-3°C</p> <p>Additional Accessories: SS Racks and cardboard boxes</p> <p>Power Supply: 210-240V/50-60 Hz</p> <p>MAKE: worlpool, LG, Godrej, Samsung, remi, Thermo fisher Scientific, Celfrost, Crispcold, Bluestar</p> | 3 |
| 15 | <p>Autoclave</p> <p>Technical:</p> <p>Fully automatic vertical autoclave, suitable for sterilization under working steam pressure up to 15 PSI or more and temperature of 121°C or more.</p> <p>Design: Unit made of SS 304 chamber, approx inner dimensions 16" to 25" (diameter x depth).</p> <p>Lid made of heavy gauge lid, die pressed S.S.304 with pressure gauge, steam release valve &amp; necessary Safety valves, with foot lifting arrangement to open lid, programmable, with all functional accessories.</p> <p>Capacity: 70 to 80 lit</p> <p>Display: Time and temperature LCD display</p> <p>Alarm: Low water level alarm and cut off / Sensor open alarm</p> <p>Accessories: Perforated carriers made up of SS 304 ( 3-4 Nos.)</p> <p>Power Supply: 220/230 volts AC-50 Hz or Suitable power supply</p> <p>MAKE: Make: Fisherbrand(fisher scientific/Thermofisher)/Heidolph™/Kinematica™/BIOBASE/CISA/BIO-ART/PROHS/ELEKTRO-MAG/STERIS/PHOENIX or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p>   | 3 |

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| 16 | <p>Automated ELISA Microplate Washer<br/>Technical:</p> <p>Manifold<br/>Vacuum and fluid delivery<br/>Capability: 96 well microplates and strips, with flat, round, or “V” bottom well<br/>Manifold: 12 Channels<br/>Vacuum and fluid delivery: In built with Positive displacement syringe pump, drive Systems<br/>with adjustable flow rates<br/>Program: Memory for around 50 programs including dispensing Volume (50 to 300ul/well) and multispeed microplate shaking program<br/>Bottles: Wash, rinse and waste (volume 4-6 liter)<br/>Safety devices: Aerosol cover, removable Plate carrier, spill over protection and overflow protection safety system<br/>Display: LCD Display with Membrane Keypad<br/>Power Supply: 210-240V/50-60 Hz<br/>MAKE: BIO-RAD/BIOTECK/HUDSON/Thermo Fisher Scientific<br/>/BIOBASE/RayBiotech/BIOSAN/BIOTEK/Fisherbrand™/HydroFlex™/Labnet/Tecan/Titertek<br/>-Berthold or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p> | 3 |
| 17 | <p>ELISA Reader:<br/>Technical:<br/>Capability: 24, 48 or 96 well micro plates<br/>Spectral Range: 400-750nm, Accuracy +-1nm<br/>Absorbance: 0-4 O.D. Range<br/>Accuracy: Up to 0.001 O.D.<br/>Provision: Curve fittings formulas transformations &amp; control assay validation, with compatible interface with PC &amp; external printer.<br/>Accessories: Spare Lamps 2 Nos.<br/>Power Supply: 210-240V/50-60 Hz<br/>MAKE: BIO-RAD/BIOTECK/HUDSON/Thermo Fisher Scientific<br/>/BIOBASE/RayBiotech/BIOSAN/BIOTEK/Fisherbrand™/HydroFlex™/Labnet/Tecan/Titertek<br/>-Berthold or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p>  | 3 |

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| 18 | <p>BOD Microbiological Incubator (28°C)</p> <p>Technical:</p> <p>Double walled body with inner chamber of Stainless Steel and outer galvanized steel with non- corrosive epoxy powder coated; full view glass door.</p> <p>Capacity: 100-120L with an internal fan for uniform air circulation</p> <p>Inner chamber: 3-4shelvesand with illumination</p> <p>Temperature: Control: microprocessor based with digital display, Range: 5°C to 50°C with an accuracy of +/-0.5°C Uniformity: +:/1.0°C throughout the chamber</p> <p>Door alarm: Low/high temperature alarm</p> <p>Cooling: CFC free refrigeration</p> <p>Power Supply: 210-240V/50-60 Hz</p> <p>Warranty: 1-3 year depend on service package</p> <p>MAKE: Thomas Scientific/ THERMOFISHER/REMI/VELP/BENCHMARK/ELEKTRO-MAG/BIOSAN/MEDITECH/RAYPA/NUVE or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p>  | 3 |
| 19 | <p>Fluorescent Microscope</p> <p>Technical:</p> <p>Basic Components:</p> <p>1. Objectives : With a par-focal distance of 60 millimeters and an objective thread size of 25 millimeters. Phase Contrast objectives- 4x, 10x, 20x &amp; 40x and 100x with NA value of minimum 1.45 (without phase) (optional) oil immersion</p> <p>2. Condenser : ELWD (extra long working distance)</p> <p>Vacuum and fluid delivery :In built with Positive displacement syringe pump, drive Systems with adjustable flow rates</p> <p>Program: Memory for around 50 programs including dispensing Volume (50 to 300ul/well) and multispeed microplate shaking program</p> <p>Bottles: Wash, rinse and waste (volume 4-6 liter)</p> <p>Safety devices: Aerosol cover, removable Plate carrier, spill over protection and overflow protection safety system</p> <p>Display: LCD Display with Membrane Keypad</p> <p>Power Supply: 210-240V/50-60 Hz</p> <p>MAKE : Olympus/NIKON/LEICA/ZEISS/BRUKER/KERN/Bruker/GE Healthcare Life Sciences /Thermo Fisher Scientific/BIORAD/BIOTEK/BIOBASE or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p> | 3 |

## 2. Definitions

- "Buyer" means PREJHA Foundation
- "Bidder" means suppliers or contractors who have participated in tender
- "The Vendor" means the supplier or contractor or service provider to whom the Order is addressed.
- "The Purchase Order" means terms and conditions signed between Buyer and the Vendor governing the subject matter of this Order
- "The Goods / Services" means the goods or services to be supplied under the Order.

## 3. Amendment of RFQ

At any time before the submission of Proposals, PREJHA Foundation may amend the RFQ by issuing an addendum in writing or by standard electronic means. The addendum shall be uploaded on the <https://eprocurement.mjunction.in/EPKV2Web/org/PREJHA/home.action> and tender section of [www.jharkhand.gov.in](http://www.jharkhand.gov.in) and will be binding on them. To give Bidders reasonable time in which to take an amendment into account in their Proposals, PREJHA Foundation may, if the amendment is substantial, extend the deadline for the submission of Proposals.

## 4. Bidding

*(to be solely done through portal)*

<https://eprocurement.mjunction.in/EPKV2Web/org/PREJHA/home.action>

- a) Offer to be submitted only on e-procurement portal. Hard copy of offer is **not required** to be submitted to PREJHA Foundation. Any offer received in Hard copy shall **not be accepted** and will stand disqualified
- b) Mode of Submission of offer: Being e-tender, offer will be solely submitted online through e-tender portal: <https://eprocurement.mjunction.in/EPKV2Web/org/PREJHA/home.action> through following Application Service Providers (ASPs) appointed by PREJHA:

M/s Mjunction Services Limited, 6thFloor, Tata Centre.43 J N Road,  
Kolkata – 700 071,

**Contact Person: Helpdesk Officer** Sumant Kumar Choudhary  
9163348104, [sumant.choudary@mjunction.in](mailto:sumant.choudary@mjunction.in)

- c) They may obtain further information regarding this tender from the office of PREJHA Foundation Ranchi, Near Ranchi Women's College, science block, Nagra Toli, Ranchi, Jharkhand 834001 from 10:00 hours to 17:00 hours on all working days till the date of bidding is open.

Contact Person: Pankaj Sharma, Project Sevak, PREJHA  
Contact No.: 8178946509  
Email-ID: [Pankaj.s@parfi.org](mailto:Pankaj.s@parfi.org)

- d) Bidders are expected to adequately apprise themselves regarding the procedure and provisions available on the e-procurement portal **operated/ maintained** by M/S. Mjunction services limited. Buyer shall not be responsible for any issues related to timely or proper uploading/submission of the bid.

### **5. Validity of Proposal**

Bidders' proposals must remain **valid for a period of min** 90 days after the submission of proposal. Should the need arise, PREJHA Foundation may request Bidders to extend the validity period of their proposals. If a bidder is selected as vendor, his proposal will remain same for whole of the delivery schedule.

### **6. Submission of proposal**

The Proposal as well as all related correspondence exchanged by the bidders and PREJHA Foundation, shall be only through the portal of mjunction and electronic means.

The offer shall be submitted as per the instructions of tender document and as detailed in this RFQ. Price shall be furnished in the relevant price schedule only. In case of any clarification, bidder may contact the concerned contact persons at m junction Services or PREJHA as listed above

### **7. Latest updates**

Latest updates on the critical dates, Amendments, Correspondences, Corrigenda, Clarifications, Changes, Errata, Modifications, Revisions, etc. to Tender Specifications will be hosted on PREJHA-mjunction webpage. Bidders to keep themselves updated with all such information. Bidders may please visit <https://eprocurement.mjunction.in/EPKV2Web/org/PREJHA/home.action> for document submission. Tender details can also be accessed from: [www.jharkhand.gov.in](http://www.jharkhand.gov.in)

### **8. Technical Bid (incl. Pre-Qualification Criteria)**

| Sl. No | PQR Condition   | Bidder Remarks |
|--------|---|----------------|
| 1      | Bidder should have supplied or approved to supply similar / same item to NABL/CLIA/CE certified Laboratories, Govt. Research agencies or Govt. Medical colleges/Hospitals or Any reputed Covid-19 testing lab in past 02 (two) Years either nationally or internationally or authorized dealer of such principals. A copy of purchase order is required to be submitted as a documentary proof. (The period of 2 years shall be considered from date of opening of Part-I bid). |                |
| 2      | Capacity to provide services and maintenance of related product.  |                |

Bidder should submit the prequalification documents (Tech1, Tech2, Tech3 & Fin1) at the portal

### **9. Financial Proposal**

Financial Proposal must be submitted in the format shared in this RFQ. Financial proposal must be shared in the same format as provided else it shall be declared non-responsive.

#### ***10. Empanelment followed by Letter of Award***

1. The technical bid (incl. pre-qualification criteria) will be verified by PREJHA Foundation. The Procurement System will determine the lowest financial bid including on a possible line-item basis among the technically qualified bidders. PREJHA Foundation will compare the selected counter-proposal with the proposal from OPP. OPP will be given a time of 3 days to match or improve the selected counter-proposal including features, prices & terms.
2. PREJHA Foundation shall award the Empanelment Contract possibly with line-item wise SOR to successful bidders and then issue a purchase order that may be deemed as the Letter of Award (LOA) for the estimated order value along with terms & Conditions governing the Award and notify the same to the bidder through email. The selected bidder shall submit security deposit of 5% of the estimated order value in the form of either a bank guarantee from a scheduled bank or a PDC or a DD drawn on any scheduled bank in favour of "PanIIT Alumni Reach for Jharkhand Foundation" payable at par in Ranchi.
3. The selected bidder is expected to commence the assignment on the date and at the location specified in the LOA/ Contract.
4. If the selected bidder does not sign the Contract within the stipulated period, the LOA may be cancelled, and the next lowest bidder will be considered for award of Contract.
5. If at any stage in the bidding process including after bid opening or Issuance of Purchase orders pertaining to this RFQ, PREJHA believe that the Bidders do not meet the requisite Technical criteria set out in the Bid Document or delivery schedule or that the rate quoted exceeds its own estimates for the supply value, PREJHA reserves the right to cancel the tender or particular line item(s) without incurring any obligation or liability towards the tenderers.
6. PREJHA Foundation reserves the right to issue a part order of any 'line item' or sets of line items from BOQ in the bid to another empaneled vendor based on cost, time & quality considerations at its sole discretion. The transport cost in such cases will be on actual basis.
7. Purchase Orders & Delivery details Over the validity of this RFQ, purchase orders with specified quantity & delivery details would be issued as per requirements
8. Delivery time is the essence of this order and must be strictly adhered to. If the vendor fails to deliver the goods in time, the Buyer may, at its sole discretion:
  - Treat the order as cancelled at any time and recover any loss or damage from the vendor by invoking Security Deposit;
  - purchase the goods ordered or any part thereof from other sources on the vendor's account, in which case, the Vendor shall be liable to pay the Buyer not only the difference between the price at which such goods have been purchased and the price calculated at the rate set out in this order, but also any other loss or damage the Buyer may suffer;

### **11. Indicative Delivery Schedule**

- Goods to be delivered at following location as needed:

| Sl. No | Delivery Location          | Delivery Schedule           |
|--------|----------------------------|-----------------------------|
| 1      | Medical College Hazaribagh | Within 7 days of PO Release |
| 2      | Medical College Dumka      | Same as above               |
| 3      | Medical College Palamu     | Same as above               |

### ***12. Payment Terms***

- a. 100% within 7 days of delivery on submission of invoice & delivery challan for each unit.

### ***13. Unloading***

- a. Unloading is in Vendor's scope, cost & arrangement will be borne by Vendor.
- b. The risk of all materials till receipt at location will be in vendor's scope.

### ***14. Quality of goods and services.***

The Vendor should warrant to PREJHA that:

- The Goods and Services would conform in all respects to the Order and to recognized Indian or equivalent standards and codes (where applicable) and be at the complete satisfaction of Buyer.
- The said good/services processed and delivered by the Vendor shall be made from good quality bought out components/materials, as acceptable to the Buyer and it should have standard/excellent workmanship and fit for their intended purpose.

### ***15. Warranty/ Guarantee***

- a) The said goods/services delivered by the Vendor should be identical to the sample/specification given by the Vendor.
- b) Where the said goods/services delivered by the Vendor to the Buyer is according to sample as well as certain specification/description, if any, the said goods/services processed and delivered, shall match not only with the said sample, but also with the said specification/description.
- c) If deficiency is identified before or during the transfer of risk or during the Guarantee/warranty Period, the Vendor must at its own expense and at the discretion of the Buyer either repair the deficiency or provide re-performance of the Services or replacement of delivery. This provision also applies to delivery subject to inspection by sample test. The discretion of the Buyer shall be final.

### ***16. Inspection***

- a) All materials supplied against the order should conform strictly to the specifications laid down by the Buyer, and should be new, merchantable quality, fit for their intended purpose and should be in line with "Quality Assurance Plan", if any, which must be approved in advance by the Buyer. All such

materials will be subject to inspection and approval by the Buyer, either at the Vendor's premises and/or at the place of delivery indicated by the Buyer.

- b) The Buyer reserves the rights to inspect the material at any stage during manufacture or supply and reject the same if found defective or not in conformity with the specifications or not fit for their intended purpose without invalidating the remainder of the order, if so desired by the Buyer.
- c) All rejected material from the Buyer's site store shall be removed by the vendor at their own cost positively within 15 days from the date of rejection note / intimation issued by the Buyer to them. In case of any failure to remove the same by the vendor within the stipulated period, the Buyer shall have all rights to remove the rejected materials/goods from their premises and discard it. Any cost on this account would be debited to vendor's account.
- d) The Buyer under no circumstances will be liable or held accountable for any damage, loss, deterioration of the rejected materials/goods for discarding the material/goods, or for any value for it.

#### ***17. Damage or loss in transit***

- a) Subject to the terms of the Order, the Vendor undertakes at its own expense to replace goods lost or damaged in transit.
- b) The delivery will not be deemed to have taken place until replacement items are delivered to the satisfaction of the Buyer.

#### ***18. Ownership and risk***

Subject to the terms of the delivery and without prejudice to PREJHA Foundation's other rights under the Conditions of the Order:

- a) Ownership in the Goods shall pass to PREJHA on delivery and acceptance.
- b) Risk in the Goods shall pass to PREJHA on delivery, save where the Order includes installation, in which case risk shall not pass to PREJHA until completion of the installation work.

#### ***19. Fraud/Corruption***

PREJHA Foundation requires that the bidders participating in the selection process adhere to the highest ethical standards, both during the selection process and throughout the execution of the Contract.

PREJHA Foundation will terminate the Contract, if already awarded and will declare the bidder ineligible, either indefinitely or for a stipulated period, to be awarded a Contract, if at any time it determines that the bidder has in contravention to the undertaking given in the Bid document and/or contract, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for, or in executing, a Contract as enshrined in the undertaking in bidding document and contract

#### ***20. Conflicting relationships***

Bidder has an obligation to disclose as part of the bid document any situation of actual or potential conflict that impacts their capacity to serve the best interest of PREJHA Foundation, or that may reasonably be perceived as having this effect. Failure to disclose the said situations may lead to the disqualification of

the bidder or the termination of its Contract

***21. Jurisdiction.***

The disputes if any between the parties shall be subject to the exclusive jurisdiction of the courts in Ranchi alone.

## STANDARD FORMS

| TECH FORMS | FORM NAME                            | Mention list of all supporting documents attached (if any) |
|------------|--------------------------------------|--|
| TECH-1     | Letter of proposal submission        | Pls scan, sign & attach                                    |
| TECH-2     | Bidder's organization and experience | Pls Put details during bid submission online               |
| TECH-3     | Techno commercial offer              | Pls Put details during bid submission online               |
| Fin - 1    | Financial Bid Format                 | Pls Put details during bid submission online               |

**Form Tech 1: Letter**

**(On Bidder's Letter-head)**  
**Letter of Proposal Submission**

To,  
Executive Director  
**PanIIT Alumni Reach For Jharkhand Foundation**  
**Kalyan Complex, Balihar Road, Morabadi,**  
**Ranchi – 834008, Jharkhand**

We, the undersigned, offer to supply equipment of Covid-19 Testing Lab to PREJHA Foundation, in accordance with your Request for Quotation dated 25-05-2020. We are hereby submitting our proposal, which includes this Technical Proposal, and the Financial Proposal as indicated

We undertake the total responsibility for supply of the goods, if awarded to us.

We hereby declare that all the information and statements made in this proposal are true and accept that any misrepresentation contained in it may lead to our disqualification.

We understand that **PREJHA Foundation** is not bound to accept any proposal it receives.

We further state that we understand that PREJHA Foundation will terminate the Contract, if already awarded and will declare the bidder ineligible, either indefinitely or for a stipulated period, to be awarded a Contract, if at any time it determines that the bidder has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for, or in executing a Contract

Yours faithfully,

\*Authorized Signatory [*In full and Designation*]: Name and Title of Signatory:  
Name of  
Bidder:  
Address:

## Form Tech 2: Bidder's Organization and Experience

### Bidder's Organization

Provide here a brief description of the background and organization of your Agency/entity.

| <i>Years</i>          | <i>2018-19</i> | <i>2019-20</i> | <i>Average</i> |
|-----------------------|----------------|----------------|----------------|
| <i>Turnover (INR)</i> |                |                |                |

*Attach PAN card copy, Bank Details (along with copy of cancelled cheque)*

**Form Tech 3: Techno commercial Offer**

| <b><u>TENDER PROFORMA for Techno-commercial</u></b> |     |
|---|-----|
| PREJHA reference                                    |     |
| Name of Bidder                                      |     |
| Address of Bidder                                   |     |
| Acceptance of Delivery<br>Schedule                  | Yes |
| Acceptance of payment terms                         | Yes |
| GSTIN No  |     |
| Acceptance of Guarantee<br>clause                   | Yes |
| Acceptance of Jurisdiction<br>clause                | Yes |

**Form Fin1: Financial Bid Proforma**

| <b><u>TENDER PROFORMA for Commercial</u></b> |  |                      |                  |                        |              |            |                |
|--|--|----------------------|------------------|------------------------|--------------|------------|----------------|
| <b>PREJHA Reference No</b>                   |  |                      |                  |                        |              |            |                |
| <b>Name of Bidder</b>                        |  |                      |                  |                        |              |            |                |
| <b>SN</b>                                    | <b>Item Description</b>  | <b>Estimated Qty</b> | <b>Unit Rate</b> | <b>Estimated Value</b> | <b>Tax %</b> | <b>Tax</b> | <b>Freight</b> |
| 1  | Refrigerated high speed centrifuge<br>Technical:<br>Certification: CE, CSA, TUV, or UL certified or conformity<br>Temperature range: European -4 to +40°C<br>Speed: 14000 RPM or more<br>Display: Digital for temperature for air and chamber, time and RPM/RCF,<br>Microprocessor controlled<br>Drive system: Brushless drive<br>Programmable: Programs-90-99 and with program recall facility<br>Rotors: Fixed angle rotor: 24x1.5-2.0ml<br>Optional Rotors: Fixed angle rotor: 24X1.5 ml tubes, 250 ml, Swing out Rotor and adopters for:<br>5-10 ml tubes,15ml, 50ml and 250 ml tubes, micro plate.<br>Power Supply: 210-240V/50-60 Hz or Suitable power supply<br>Warranty: 1-3 Year<br>Make:<br>Corning/EKF/Edvotek/Eisco/Eppendorf/Fisherbrand/<br>Ohaus/GYROGEN/Thermo Scientific/Torrent/sartorius/NuAire or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO. | 3                    |                  |                        |              |            |                |
| 2  | Microcentrifuge with Rotor<br>Specifications<br>Cerification/Compliance Marks: CE, TUV, CSA, UL<br>Max Speed (rpm): 14500<br>Max RCF: x gl 4100<br>Rotor Type: Fixed-Angle<br>Rotors Included: Yes<br>Timer Range: 0 to 99 minutes<br>Max Capacity (mL): 24<br>Tube Capacity: 12 x 1.5 to 2.0mL  | 3                    |                  |                        |              |            |                |

|   |  |   |  |  |  |  |  |
|---|--|---|--|--|--|--|--|
|   | Length (cm): 24<br>Width (cm): 22.9<br>Height (cm): 12<br>Power (VAC): 220<br>Description: Microcentrifuge, 12 x 1.5/2.0 mL; 220 VAC<br>Adapter for PCR tubes<br>Make: Eppendorf/<br>Corning/EKF/Edvotek/Eisco/Fisherbrand/<br>Ohaus/GYROGEN/Thermo<br>Scientific/Torrent/sartorius/NuAire or Any<br>other brand and model which is approved by<br>ICMR for Covid-19 Testing including through<br>PO.  |   |  |  |  |  |  |
| 3 | Quick spin Mini Centrifuge<br>Speed: 6000 rpm<br>Capacity: 8 x 1.5/2.0ml, 4 x 0.2ml strips<br>Includes Rotor: Yes<br>Maximum G: 2000<br>Deceleration Time: <2 seconds<br>Input Voltage: 100-240V<br>Compliance Marks: CE, TUV, CSA<br>Warranty: 1-3 years<br>Make: Eppendorf/<br>Corning/EKF/Edvotek/Eisco/Fisherbrand/<br>Ohaus/GYROGEN/Thermo<br>Scientific/Torrent/sartorius/NuAire or Any<br>other brand and model which is approved by<br>ICMR for Covid-19 Testing including through<br>PO.  | 3 |  |  |  |  |  |
| 4 | Refrigerated Microfuge<br>Technical:<br>1. Bench top, compact, Refrigerated<br>Temperature setting: 0 to 40°C<br>2. Fast Pre cooling and should maintain +4°C<br>at maximum speed<br>3. Up to 10 programs or more<br>4. Digital display showing rpm, RCF and time<br>5. Speed Up to 15000 rpm<br>6. Rotor for 24X 1.5 to 2 ml tubes,<br>7. Adaptors for 0.5 ml and 0.2 ml tubes<br>8. Auto balancing in situation of minor<br>imbalance<br>9. Electrical Requirements: 120V/60Hz and<br>230V/50 Hz or Suitable electrical supply<br>10. CE certified or equivalent<br>Make: Eppendorf/<br>Corning/EKF/Edvotek/Eisco/Fisherbrand/<br>Ohaus/GYROGEN/Thermo<br>Scientific/Torrent/sartorius/NuAire or Any | 6 |  |  |  |  |  |

|   |   |    |  |  |  |  |  |
|---|---|----|--|--|--|--|--|
|   | other brand and model which is approved by ICMR for Covid-19 Testing including through PO.  |    |  |  |  |  |  |
| 5 | <p>VORTEX Mixer<br/> VOLTAGE: 220-240V<br/> FREQUENCY: 50 HZ<br/> POWER: 60 W<br/> SHAKING MOVEMENT: ORBITAL<br/> OUTER DIAMETER: 4 MM<br/> SPEED RANGE: 0-2500 RPM<br/> SPEED DISPLAY: ANALOG TYPE<br/> RUN TYPE: CONTINUOUS TOUCH<br/> OPERATION<br/> AMBIENT: 80%<br/> TEMPERATURE: 5-45° C<br/> Make:<br/> Eppendorf/Fisherbrand/BioRAD/VELP/Thomas Scientific/HEIDOLPH/Globe Scientific/Ohaus/Benchmark/Corning/NuAire / Sartorius or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p> | 6  |  |  |  |  |  |
| 6 | <p>Adjustable Volume Single Channel Pipettes:<br/> Technical:<br/> ISO 8655 CERTIFIED, Research Grade, CE-IVD certified, fully Autoclavable, single channel pipettes of variable volume compatible with universal tips.<br/> Make: Eppendorf/VistaLab /BrandTech/Corning/Hach/Gilson/Thermo Fisher Scientific/ Sartorius or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p>  | 36 |  |  |  |  |  |
| 7 | <p>Adjustable Volume Digital Multi Channel Pipettes<br/> Technical:<br/> ISO 8655 CERTIFIED, Research Grade, CE-IVD certified, fully Autoclavable, Digital multi channel pipettes of variable volume compatible with universal tips.<br/> Make: Eppendorf/VistaLab /BrandTech/Corning/Hach/Gilson/Thermo Fisher Scientific/ Sartorius or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p>   | 36 |  |  |  |  |  |
| 8 | <p>Thermo Mixer/Heat Block:<br/> Mixing, heating, and cooling in one instrument for high flexibility<br/> All common vessels and plate formats from 5 µL to 50 mL by different Eppendorf</p>  | 3  |  |  |  |  |  |

|   |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| <p>SmartBlocks™ for standard applications<br/> Excellent 2DMix-Control technology results in excellent sample mixing<br/> Anti-spill technology prevents lid wetting and cross-contamination<br/> Increased mixing frequency of up to 3,000 rpm for effective sample mixing<br/> Excellent temperature management for maximum temperature accuracy, resulting in safe handling.<br/> Predefined program keys and clearly arranged menu guides enable simple and intuitive operations<br/> Freely programmable program keys for individual optimization.</p> <p>Applications:</p> <ul style="list-style-type: none"> <li>* Plasmid/RNA/DNA purification<br/> cDNA synthesis</li> <li>* Extraction of DNA fragments from agarose gels</li> <li>* Enzymatic reactions (e.g., DNA restriction digestion, Proteinase K digestion and ligation)</li> </ul> <p>Transformation of bacteria strains and plasmids<br/> Denaturation of DNA, RNA, and proteins<br/> Labeling of DNA, RNA, and proteins<br/> Bacterial growth in microreaction vessels, conical tubes, and Deepwell Plates<br/> Lysis reactions at 100 °C<br/> Mixing of PCR setups</p> <p>Technical:</p> <p>Max. speed: 3,000 rpm<sup>1</sup><br/> Mixing and vortexing radius: 1.5 mm<br/> Mixing frequency: 300 – 3,000 rpm<sup>1</sup><br/> Mixing orbit: 3 mm<br/> Temperature accuracy: Max. ±0.5 °C at 20 – 45 °C<br/> Temperature settings: 1 °C / 100 °C<br/> Sample capacity: All common vessels and plate formats from 5 µL to 50 mL<br/> Timer: 5 sec to 99:30 h, continuous<br/> Heating rate: Max. 7 °C/min (when using SmartBlock plates)<sup>1</sup><br/> Cooling rate: Max. 2.5 °C/min between 100 °C and RT<br/> Interfaces: USB interface<br/> Power supply: 220 – 240 V, 50 – 60 Hz</p> |  |  |  |  |  |  |
|---|--|--|--|--|--|--|

|    |  |   |  |  |  |  |  |
|----|--|---|--|--|--|--|--|
|    | <p>Max. power consumption: 200 W<br/> Dimensions (W × D × H): 20.6 × 30.4 × 13.6 cm / 8.1 × 12.0 × 5.4 in<br/> Weight w/o accessories : 6.3 kg / 13.9 lb<br/> Temperature range: Min: 15 °C below RT, max: 100 °C1</p> <p>Make: Eppendorf/Thomas Scientific/Labtop/Thermo Fisher/Ohahusor<br/> Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p>  |   |  |  |  |  |  |
| 9  | <p>Thermohygrometer:<br/> Internal temperature and humidity sensor<br/> - Large display<br/> - Second external temperature sensor<br/> - Display of date and time<br/> - Alarm function<br/> - Battery operation<br/> Dual Display Resolution : 0.1° / 1%RH<br/> Accuracy: ±1°C / ± 2°F/± 5%RH<br/> Thermometer functions: °C/°F- In/out - Maxi-Mini - Ice point alert<br/> Hygrometer functions: Int - Máxima y Mínima<br/> Cable: 200 cm<br/> range : -50+70°C / -58+158°F / 20-99%RH<br/> Make: HTC/Bellstone/ARO<br/> Ferve/FLUKE/Fisher Scientific/TESTO/Digi-Sense or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p> | 3 |  |  |  |  |  |
| 10 | <p>Laboratory Refrigerator 300ltr<br/> Design : Double door refrigerator, Door locking system, magnetic door gasket, adjustable shelves , auto defrost facility. Digital Temperature indicator.<br/> Capacity: 321-350 L<br/> Refrigerant : CFC Free<br/> Controls : moisture and humidity<br/> Alarm &amp; Indicator : audio-visual alarm for door open and temperature fluctuation<br/> compressor<br/> on/off indicator<br/> Power Supply :Should include 210-240 V/50-60 Hz<br/> Warranty<br/> Company</p>   | 3 |  |  |  |  |  |

|    |  |   |  |  |  |  |  |
|----|--|---|--|--|--|--|--|
|    | 3 years<br>make: worlpool, LG, Godrej, Samsung, remi   |   |  |  |  |  |  |
| 11 | <p>Digital pH Meter:<br/>Technical Specifications: Must be of reputed brand, from manufacturer/Authorized dealer having installation in reputed institutes/firms.</p> <p>Design<br/>Electrodes<br/>Capability<br/>Compact, Table top<br/>Dual<br/>To measure pH, Temperature, mV &amp; relative mV<br/>Range 0 to 16.00, pH, Accuracy, + 0.01<br/>Resolution 0.002<br/>Approximately 0 to 120o C, Accuracy + 0.5o C<br/>+ 1999, Resolution 0.1<br/>Display: LCD for pH and temperature readings simultaneously<br/>Unit able to recognize auto buffer along with custom buffer options<br/>Automatic as well as manual<br/>Automatic<br/>Should include 210-240V/50-60 Hz<br/>Make: Thomas<br/>Scientific/Labforce/Apera/Dr.meter/Bluelab /HM Digital /Thermo Orion/ Sartorius</p> | 3 |  |  |  |  |  |
| 12 | <p>PCR Workstation/PCR Hood:<br/>Technical:<br/>Size: 2"x3"<br/>Construction: Powder coated/ epoxy-coated SS. Work surface-Good quality Stainless steel<br/>Lighting system: A built-in ultraviolet light for decontamination of consumables and equipment and fluorescent light for working<br/>Vertical laminar flow:-<br/>Filters: Combines an ISO 5 (FS209E) Class 100 clean air environment. 99.99%-efficient HEPA filter and disposable prefilter<br/>Alarms: Monitors the effectiveness of the workstation and alerts the operator if the HEPA filter or UV bulb needs replacement folding sash turns off the UV light and activates the blower and fluorescent light<br/>Power supply: Should include 220 V/50 Hz</p>  | 6 |  |  |  |  |  |

|    |   |   |  |  |  |  |  |
|----|---|---|--|--|--|--|--|
|    | <p>Optional: Utility ports</p> <p>Other Features:</p> <p>No installation required</p> <p>ISO 5 vertical laminar flow air</p> <p>No ductwork required</p> <p>UV shelf with built-in pipettor holder</p> <p>Seamless design -no joints or gaps</p> <p>Digital UV light timer :01-59 minutes</p> <p>Access port for electrical cords</p> <p>Make: Thomas Scientific/ESCO/Fisher Scientific/Yorko/AirClean Systems / NuAire/Expedeon/MYSTAIRE/LABCONCO/Co y Laboratory/Airfiltronix/Beckman Coulter /Yamato Scientific/Plas-Labs/Haier or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p>  |   |  |  |  |  |  |
| 13 | <p>Laminar Air Flow</p> <p>Technical:</p> <p>Certification: EN12469 OR equivalent</p> <p>Design: Vertical laminar flow cabinet, Approximately 4 Feet length X 2 feet depth, 304SS interior, epoxy/powder coated exterior Door fully closing with hinged sash. Support stand, solid one piece dished work surfaces</p> <p>Circulation: Down flow velocity of 40-70 fpm, ISO Class 5 or higher air</p> <p>Filters: HEPA filter, (99.99% efficient on particles 0.3 micron)/ULPA filter (efficiency of &gt;99.999% at 0.1 to 0.3 micron sizes) provided with pre-filter)</p> <p>Light: UV and sufficient illumination for work space</p> <p>Gauges: For monitoring the condition of all HEPA filters as well as work space.</p> <p>Power Supply: Should include 210-240V/50-60 Hz</p> <p>Make: Thomas Scientific/ESCO/Fisher Scientific/Yorko/AirClean Systems / NuAire/Expedeon/MYSTAIRE/LABCONCO/Co y Laboratory/Airfiltronix/Beckman Coulter /Yamato Scientific/Plas-Labs/Haier or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p> | 6 |  |  |  |  |  |
| 14 | <p>Deep freezer - (-)80 deg C</p> <p>Technical:</p> <p>Galvanized steel sheet body with epoxy paint</p>   | 3 |  |  |  |  |  |

|    |  |   |  |  |  |  |  |
|----|--|---|--|--|--|--|--|
|    | <p>and vacuumed polyurethane foam panels, outer double door with locking facility. Alarm for audible &amp; visual fault acknowledgement, low &amp; high temperature audio visual alarms, condenser fault alarm, remote contact alarm, open door alarm, clean filter Indicator and power failure alarm. Castor wheels &amp; leveling adjustor should be provided for adjustment and installation.</p> <p>Capacity: Approximately 650- 700L</p> <p>Refrigerant: CFC &amp; HCFC</p> <p>Cooling system: Cascade cooling system</p> <p>Doors: Triple silicon section seal, Fitted with decompression valve facility to lower air pressure inside the freezer for easy door opening.</p> <p>Inner Compartment: Minimum 3 compartments with doors</p> <p>Temperature: Range-20 to -80°C, Stability +/- 1°C, uniformity +/- 3°C</p> <p>Additional Accessories: SS Racks and cardboard boxes</p> <p>Power Supply: 210-240V/50-60 Hz</p> <p>MAKE: worlpool, LG, Godrej, Samsung, remi, Thermo fisher Scientific, Celfrost, Crispcold, Bluestar</p> |   |  |  |  |  |  |
| 15 | <p>Autoclave</p> <p>Technical:</p> <p>Fully automatic vertical autoclave, suitable for sterilization under working steam pressure up to 15 PSI or more and temperature of 121°C or more.</p> <p>Design: Unit made of SS 304 chamber, approx inner dimensions 16" to 25" (diameter x depth).</p> <p>Lid made of heavy gauge lid, die pressed S.S.304 with pressure gauge, steam release valve &amp; necessary Safety valves, with foot lifting arrangement to open lid, programmable, with all functional accessories.</p> <p>Capacity: 70 to 80 lit</p> <p>Display: Time and temperature LCD display</p> <p>Alarm: Low water level alarm and cut off / Sensor open alarm</p> <p>Accessories: Perforated carriers made up of</p>  | 3 |  |  |  |  |  |

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|    | <p>SS 304 ( 3-4 Nos.)</p> <p>Power Supply: 220/230 volts AC-50 Hz or Suitable power supply</p> <p>MAKE: Make: Fisherbrand(fisher scientific/Thermofisher)/Heidolph™/Kinematica™/BIOBASE/CISA/BIO-ART/PROHS/ELEKTRO-MAG/STERIS/PHOENIX or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p>  |   |  |  |  |  |  |
| 16 | <p>Automated ELISA Microplate Washer</p> <p>Technical:</p> <p>Manifold</p> <p>Vacuum and fluid delivery</p> <p>Capability: 96 well microplates and strips, with flat, round, or “V” bottom well</p> <p>Manifold: 12 Channels</p> <p>Vacuum and fluid delivery: In built with Positive displacement syringe pump, drive Systems with adjustable flow rates</p> <p>Program: Memory for around 50 programs including dispensing Volume (50 to 300ul/well) and multispeed microplate shaking program</p> <p>Bottles: Wash, rinse and waste (volume 4-6 liter)</p> <p>Safety devices: Aerosol cover, removable Plate carrier, spill over protection and overflow protection safety system</p> <p>Display: LCD Display with Membrane Keypad</p> <p>Power Supply: 210-240V/50-60 Hz</p> <p>MAKE: BIO-RAD/BIOTECK/HUDSON/Thermo Fisher Scientific /BIOBASE/RayBiotech/BIOSAN/BIOTEK/Fisherbrand™/HydroFlex™/Labnet/Tecan/Titertek-Berthold or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p> | 3 |  |  |  |  |  |
| 17 | <p>ELISA Reader:</p> <p>Technical:</p> <p>Capability: 24, 48 or 96 well micro plates</p> <p>Spectral Range: 400-750nm, Accuracy +/-lnm</p> <p>Absorbance: 0-4 O.D. Range</p> <p>Accuracy: Up to 0.001 O.D.</p> <p>Provision: Curve fittings formulas transformations &amp; control assay validation, with compatible interface with PC &amp; external</p>  | 3 |  |  |  |  |  |

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|    | <p>printer.</p> <p>Accessories: Spare Lamps 2 Nos.</p> <p>Power Supply: 210-240V/50-60 Hz</p> <p>MAKE: BIO-RAD/BIOTECK/HUDSON/Thermo Fisher Scientific</p> <p>/BIOBASE/RayBiotech/BIOSAN/BIOTEK/Fisherbrand™/HydroFlex™/Labnet/Tecan/Titertek-Berthold or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p>  |   |  |  |  |  |  |
| 18 | <p>BOD Microbiological Incubator (28°C)</p> <p>Technical:</p> <p>Double walled body with inner chamber of Stainless Steel and outer galvanized steel with non- corrosive epoxy powder coated; full view glass door.</p> <p>Capacity: 100-120L with an internal fan for uniform air circulation</p> <p>Inner chamber: 3-4shelvesand with illumination</p> <p>Temperature: Control: microprocessor based with digital display, Range: 5°C to 50°C with an accuracy of +/-0.5°C Uniformity: +:+/1.0°C throughout the chamber</p> <p>Door alarm: Low/high temperature alarm</p> <p>Cooling: CFC free refrigeration</p> <p>Power Supply: 210-240V/50-60 Hz</p> <p>Warranty: 1-3 year depend on service package</p> <p>MAKE: Thomas Scientific/ THERMOFISHER/REMI/VELP/BENCHMARK/ELEKTRO-MAG/BIOSAN/MEDITECH/RAYPA/NUVE or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p> | 3 |  |  |  |  |  |
| 19 | <p>Fluorescent Microscope</p> <p>Technical:</p> <p>Basic Components:</p> <p>1. Objectives : With a par-focal distance of 60 millimeters and an objective thread size of 25 millimeters. Phase Contrast objectives- 4x, 10x, 20x &amp; 40x and 100x with NA value of minimum 1.45 (without phase) (optional) oil immersion</p> <p>2. Condenser : ELWD (extra long working distance)</p>  | 3 |  |  |  |  |  |

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| <p>Vacuum and fluid delivery :In built with Positive displacement syringe pump, drive Systems with adjustable flow rates</p> <p>Program: Memory for around 50 programs including dispensing Volume (50 to 300ul/well) and multispeed microplate shaking program</p> <p>Bottles: Wash, rinse and waste (volume 4-6 liter)</p> <p>Safety devices: Aerosol cover, removable Plate carrier, spill over protection and overflow protection safety system</p> <p>Display: LCD Display with Membrane Keypad</p> <p>Power Supply: 210-240V/50-60 Hz</p> <p>MAKE :<br/>Olympus/NIKON/LEICA/ZEISS/BRUKER/KERN /Bruker/GE Healthcare Life Sciences /Thermo Fisher Scientific/BIORAD/BIOTEK/BIOBASE or Any other brand and model which is approved by ICMR for Covid-19 Testing including through PO.</p> |  |  |  |  |  |  |
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(\*- Freight – Ex Ranchi)