भारतीय प्रौद्योगिकी संस्थान इंदौर
सिमरोल, खंडवा रोड, इंदौर, पिन- 453552

Indian Institute of Technology Indore
Simrol, Khandwa Road, Indore- 453552

GeM Bidding Document
For
Supply, Installation and Commissioning of Tissue Culture/Cell and Molecular Biology Lab Facility

Document to be submitted online on GeM
for
(Technical & Financial Bid as per Schedule of requirement)

अनुभाग-1 /SECTION - I

विशेष नियम एवं शर्तें / SPECIAL TERMS AND CONDITIONS

1. Any bidder from a country sharing a land border with India will be eligible to bid in this tender only if the bidder is registered with the Department for Promotion of Industry and Internal Trade (DPIIT) as per vide Ministry of Finance OM No. 6/18/2019-PPD dated 23rd July 2020 and its subsequent amendments.
2. Benefits to Micro and Small (MSEs)/Start-Up will be applicable under PP Policy 2012 and its subsequent amendments for MSEs as per guidelines issued by Ministry of MSME.
3. The Public Procurement (preference to Make in India) will be applicable under Order 2017, DIPP, MoCI Order no. P-45021/2/2017-B.E.II dated 15th June 2017 and its subsequent amendments.
4. **Payment: No advance payment will be made in any case.** Payment will be released through bank NEFT/RTGS transfer after supply, installation testing, inspection & commissioning of the item(s) and if found satisfactory with regard to quality, quantity and specifications ordered. The payment will be released after statutory deductions within 30 days. For the payment, the firm has to submit Supplier's Invoice indicating, inter alia description and specification of the goods, quantity, unit price, total value; challans(s), manufacturer's guarantee certificate; bank details/cancelled cheque, installation report, performance bank guarantee etc. to the Assistant Registrar, R&D MM Section, IIT Indore.

   The payment terms will be:-

   (i) 80% of the unit cost will be paid against delivery of the goods received in good conditions at NIT Kurukshetra, BU Jhansi, Vikram University, Ujjain & DAVV indore and accepted by the user department.

   (ii) 20% of the balance of each unit cost will be paid after Satisfactory Installation, Commissioning, Testing & Training (if required) of the IIT employees and submission of performance bank guarantee.

5. **Performance Security:**
   a. Within Fifteen days (or any other period mentioned in Tender Document or Contract) after the issue of Contract/Purchase Order by the Procuring Entity, the firm shall furnish to the IITI, performance security, valid up to **sixty days** after the date of completion of all contractual obligations by the contractor, including the warranty obligations.
   b. The **5%** amount of the order value shall be stipulated in Tender Document or Contract denominated in Indian Rupees or the currency of the contract and shall be in one of the following forms:
      I. Unless otherwise stipulated in Tender Document or Contract, Account Payee Demand Draft or Fixed Deposit Receipt is drawn on any commercial bank in India, favoring the authority mentioned in therein (or FA&CAO of the Procuring Organization, if not mentioned).
      II. Bank Guarantee issued by a commercial bank in India, in the prescribed form provided in Form X.
   c. If the contractor, having been called upon by the Procuring Entity to furnish Performance Security, fails to do so within the specified period, it shall be lawful for the Procuring Entity at its discretion to annul the award and enforce Bid Securing Declaration (in lieu of forfeiture of the Bid Security), besides taking any other administrative punitive action like 'Removal from List of Registered Suppliers' etc.

6. **BANK DETAILS**:

Account Holder	:	Registrar IIT Indore
Account No.	:	36948979864
IFSC Code	:	SBIN0030524
Bank Name	:	State Bank of India
Branch Address	:	Simrol, Khandwa Road, Tehsil- Mhow, District- Indore (M.P.)

7. **Pre dispatch Inspection (If required/asked)** - The firm should arrange the pre-dispatch inspection prior to packing & dispatching of the item if asked by the IIT Indore. The firm should share the entire details of the quoted items with original images, catalog and schematic diagrams before packing. Virtual/Online or physical inspection may be done by the IIT Indore technical committee.

8. Items should be delivered only on working days (Monday to Friday) during office hours only i.e. between 10:00 a.m. to 05:00 p.m.

9. **PRE- INSTALLATION:** Please also mention the pre-installation requirements for the equipment like ambient temperature, humidity, civil work, weather specifications, power specifications, etc. When items are provided full performance satisfaction should be demonstrated.

10. **Liquidated Damages:-** As time is the essence of an order, the date of delivery should be strictly adhered to, otherwise the delivery in full or in part may not be accepted and penalty for late delivery will be imposed @ 0.5% (Half Percent) per week subject to a maximum of 10% of the total value of supply order & beyond 10% subject to approval of IIT Indore. In case of delay in satisfactory Installation Commissioning, Testing, Inspection, Certification etc. also the same rate of penalty shall be liable. Non- Delivery of material/service may lead to forfeiture of PBG and debarment of the supplier.

11. **Delivery:** Free delivery at NIT Kurukshetra, BU Jhansi, Vikram University, Ujjain & DAVV indore(as per attached delivery schedule).

12. In case the equipment offered requires maintenance after the expiry of the warranty, please indicate the approximate cost of comprehensive and on-call basis maintenance and also the availability of local support or otherwise.

13. IIT Indore reserves the right to modify/alter/Insertion or deletion on any part of the tender document to ensure fulfillment of its material & service requirement at any stage.

14. The instructions about bidding given in this advertisement and the tender documents should be read thoroughly before bidding. IIT Indore reserves the right to accept or reject any or all quotations at any stage without assigning any reason whatsoever it may be.

15. **Breach of Terms and Conditions**: IIT- Indore reserves the right to accept or reject or cancel any or all inquiries or quotations at any stage without assigning any reason thereof. In case of cancellation of order due to Non-compliance of with Terms and Conditions and Breach of the Contract, no compensation will be paid towards the progress of order/procurement.

16. **Governing Law:** The order placed will be a contract between the supplier and the buyer and shall be governed by the laws of India and under the contract shall be taken by the parties only in Indore, M.P India to competent jurisdiction. All Domestic and International disputes are subject to Indore, M.P. jurisdiction only.

17. Please note clearly that the Bids sent through FAX, E-mail, by hand and/or by any post/courier shall not be accepted/ processed, in any case.

18. All other General Terms & Conditions will as per GeM GTC 4.0 v1.26.

19. All communications with respect to the tender shall be addressed only to:
    Assistant Registrar (R&D),

Materials Management Section
6th Floor, Abhinandan Bhawan (West Wing),
Indian Institute of Technology, Indore
Khandwa Road Simrol, Indore- 453552
Tel.: 0731660- Ext. 5552/3551
Email: rndmms1@iiti.ac.in, somms@iiti.ac.in, arrnd@iiti.ac.in

20. The Quantity mentioned above is also indicative and might change in the final order.

21. Format for Price Breakup (FORM-XI) must be uploaded at the time of Price bid submission. Non-Compliance of the above condition by the bidders will amount to non-eligibility for which tender has been floated and its bid shall be liable to be rejected summarily.

22. **General Instructions (From Packing at Supplier's factory to Installation at Purchaser's destination):**

a) Site Preparation: The supplier should inform the Institute about the site preparation, if any, needed for the installation of equipment, immediately after the receipt of the purchase order. The supplier has to state in detail the floor Space, electrical power/UPS and air-condition requirements in the technical bid. The supplier should continuously monitor the pre-installation requirements and see that everything is ready before the equipment is transferred to the site for installation.

b) Packing and Transportation: The supplier should provide the Goods with high quality packing which can prevent their damage or deterioration during transport to their final destination. The packing should be able to withstand the rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. While transferring the Goods to final destination, their packing case size and weights should be taken into consideration. Further, at all transit points, the heavy handling facilities should be used for smooth handling purposes.

c) Insurance: The Goods supplied under the Contract should be fully insured in Indian Rupees against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery. The insurance shall be obtained by the suppliers in an amount equal to "the value of the goods + the value total tax" from "warehouse to warehouse" (final destinations) on "all risks" basis including war risks and strikes.

d) Delivery and Unloading: The equipments should be delivered to NIT Kurukshetra, BU Jhansi, Vikram University, Ujjain & DAVV indore as per the delivery period mentioned in the Purchase/Contract Order. The supplier should ensure to unload all the materials (equipment and other related accessories etc.) to the installation site at NIT Kurukshetra, BU Jhansi, Vikram University, Ujjain & DAVV indore. Unloading of the goods at NIT Kurukshetra, BU Jhansi, Vikram University, Ujjain & DAVV indore is the responsibility of the supplier. No manpower will be provided by NIT Kurukshetra, BU Jhansi, Vikram University, Ujjain & DAVV indore.

e) Installation and Demonstration: Installation should be done by the supplier at free of cost within 04 weeks from the date of delivery of the item. Installation, complete interfacing of the system with its subsystems, and commissioning is to be carried out by the vendor's factory-trained engineers, followed by a demonstration of the system's performance fully to the user's satisfaction. Supplier should show the performance of the equipment as per specifications agreed based on claims made in their brochures or specification sheet.

f) Inspection: The inspection of the system will be done by an NIT Kurukshetra, BU Jhansi, Vikram University, Ujjain & DAVV indore. technical expert in the presence of the supplier's representative. In case of receipt of the material in short supply or damaged condition, the supplier will have to arrange the supplies/replacement of goods free of cost pending the settlement of the insurance case wherever applicable on FOR basis at NIT Kurukshetra, BU Jhansi, Vikram University, Ujjain & DAVV indore.

g) Warranty: The warranty period should begin from the date of successful installation, commissioning and training at NIT Kurukshetra, BU Jhansi, Vikram University, Ujjain & DAVV indore. Main equipment and all accessories must have comprehensive warranty, and warranty should cover all parts & labour work involved. Supplier will have to undertake comprehensive maintenance of the entire hardware components, software, equipment, support and accessories supplied by the supplier at the place of installation of the equipment. The supplier warrants that all the Goods are new, unused, not substandard and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the contract. The supplier further warrants that all Goods supplied under this contract will have no defect arising from design, materials or workmanship. The defects, if any, during the guarantee/warranty period are to be rectified free of charge by arranging free replacement wherever necessary. Collecting faulty Hardware from onsite and provisioning the replacement of hardware under warranty at onsite should be the responsibility of the supplier. If the supplied material is not used during the service period for replacing the faulty item, the supplier should extend the warranty period equal to the period during which material is not used.

h) Training (if required/asked): Onsite training should be provided by the supplier at free of cost to the users designated by NIT Kurukshetra, BU Jhansi, Vikram University, Ujjain & DAVV indoore on all specified capabilities of the instrument by the company person. At least 3 days training should be provided each year during the warranty period. During training the hardware, software, operation, safety procedure, handling emergency situations and maintenance of the instruments should be explained.

I) Annual Maintenance Contract (AMC) – Terms & Conditions

1. **Scope of AMC**-The AMC shall cover preventive maintenance and breakdown maintenance of the supplied equipment/system, including inspection, testing, calibration (if applicable), and replacement of defective parts (excluding consumables, unless specified).
2. **AMC Period**-The AMC shall be valid for a period of 02 years commencing from the date of expiry of the comprehensive warranty.
3. **Service Coverage-**
   - Preventive maintenance: Minimum 2 visits per year.
   - Breakdown maintenance: On-call basis upon receipt of complaint.
4. **Response Time**-The service engineer shall attend the complaint within 48 working hours/days from the time of complaint registration.
5. **Resolution Time / Uptime Commitment**-The maximum downtime per complaint shall not exceed 02 days. Penalty may be imposed for delays beyond the stipulated timeline.
   - Spare Parts- Cost of spare parts: Included (as applicable).
6. All replaced parts shall be genuine and new.
7. **Service Centre Availability-** The bidder shall have an authorized service centre / service engineer support available in Bhopal, Indore & Delhi location(s). Remote support shall be provided where feasible.

8. **Payment Terms-**AMC payment shall be made annually after satisfactory completion of services and submission of service reports.
9. **Penalty Clause-**In case of failure to meet response or resolution time, a penalty of 0.5% of AMC value per week may be levied, subject to a maximum of 10%.
10. **Termination Clause-** The AMC may be terminated by the institute with 30 days' prior notice in case of unsatisfactory service or breach of terms.

ADVISORY ON FRAUD CALLS/MESSAGE MADE IN THE NAME OF IIT INDORE

(a) This is to inform you that no officials from the IIT Indore make any telephone calls/messages/emails/whatsapp seeking personal or irrelevant information from the bidder. In case any additional documentation is required from bidder, it is sought only through the official email(s) originating from the institute domain name i.e. **@iiti.ac.in.**

(b) No tender/application/documentation fee is applicable for any type of the tenders being floated by this institute.

(c) The IIT Indore hereby advises all the bidders to refrain from entertaining any suspicious telephone calls /messages/emails/whatsapp made in the name of IIT Indore asking for money on behalf of the institute. **They are also advised not to reveal any personal information or transfer any money in response to such calls/messages/emails/whatsapp.**

(d) Moreover, they should bring such matters to the notice of the institute viz email to **mms@iiti.ac.in.**

(e) In case any bidder responds and becomes pray to any such fraudulent communication the responsibility shall not lie with this institute.

Assistant Registrar(R&D)
MM Section, IIT Indore

सहायक कुलसचिव (अनुसंधान एवं विकास सामग्री प्रबंधन विभाग)
Assistant Registrar (R&D-Materials Management Section)

अनुभाग-2 / SECTION- II

आवश्यक योग्यता मानदंड/Essential- Qualification Criteria

भाग – 1 /PART - I

LIST OF DOCUMENTS TO BE UPLOADED WITH TECHNICAL BID

Sl. No.	Details	Supporting Document Should be Submitted
1.	Bidder Information	**As per enclosed FORM – V**
2.	The Bidder should be OEM/ Authorized - Distributors/ Dealers/ Firms and should have the existence of firm for a minimum period of 5 years.	Valid certificate of Incorporation/ Registration of the firm.
3.	Bidder should submit a valid manufacturers authorization (in case bidder is not an OEM) and warranty support declaration from the OEM specific to this tender for list of items mentioned in **Annexure "A".**	The same should be on the Letterhead of the concerned OEM. In case of Authorized- distributor/ dealer/ firm, a copy of the valid authorization certificate shall be enclosed. ***(As per FORM – I)*** ***Note- Offer submitted without proper authorization shall be liable to be rejected summarily.***
4.	**Udyam Certificate if bidder claim MSEs should be as per GeM_GTC Clause 04, Point no (xiii), m, (i)** **Note-** Exemption for MSME's under this clause shall be given to only those bidders who are OEM and have a valid UDYAM certificate with major activity as "Manufacturing". *(Traders/Authorized dealers shall not be eligible for any exemption).*	Self-certified copies of documents.
5.	**Startup Certificate if bidder claim as a startup to this tender item.**	Self-certified copies of documents.
6.	**WORK EXPERIENCE:** The Vendors/Bidders should have prior work experience of at least 50% of the items specified in Annexure 'A', in accordance with the following parameters. Three similar completed work costing not less than **Rs. 33,00,000/-** in last 3 (Three) financial years for any Govt./Semi Govt./Centrally Funded Technical Institutes (CFTI) which includes IITs, IISERs, IIMs, NITs, IIITs, IISc and IIEST, CSIR Institutes, Central Universities and /or DAE Institutes (NISER, TIFR). **OR** Two similar completed work costing not less than **Rs. 44,00,000/-** in last 3 (Three) financial years for any Govt./Semi Govt./Centrally Funded Technical Institutes (CFTI) which includes IITs, IISERs, IIMs, NITs, IIITs, IISc and IIEST, CSIR Institutes, Central Universities and /or DAE	Work orders and satisfactory completion valid certificates issued by respective buyer organization of the above order in support of experience to be enclosed. **Without submission of completion certificate the experience will not be considered.** **The valid certificate should be in Letter Head of the concerned government organization with authorized signatory.**

	Institutes (NISER, TIFR). **OR** One similar completed work costing not less than **Rs. 77,00,000/-** in last 3 (Three) financial years for any Govt./Semi Govt./Centrally Funded Technical Institutes (CFTI) which includes IITs, IISERs, IIMs, NITs, IIITs, IISc and IIEST, CSIR Institutes, Central Universities and /or DAE Institutes (NISER, TIFR). **Note:** Similar work means supply, installation and commissioning of Tissue Culture / Cell and Molecular Biology Laboratory facility.	
7.	List of other Govt. Departments, Public Sector units and Central Autonomous Bodies for which the bidder is supplying material or having the similar type of contracts and a valid certificate regarding the satisfactory performance of the contract of at least 50% of the items specified in Annexure 'A'	**As per enclosed FORM VI**
8.	Bidder Acceptance of Tender Document	**As per enclosed FORM VII**
9.	The bidder should not have been blacklisted by any Government / Semi Government / Board /Corporations /Autonomous Body/ PSU. An undertaking/declaration in this regard should been closed. If any such matter i.e. of blacklisting /suspension is subjudice, even then the concerned firm shall be technically disqualified. *"If any one or more Partner/ Directors of any debarred/blacklisted agency promotes or forms a new contracting firm or a sister-concern firm of the said debarred/blacklisted agency, then it shall also be considered as a debarred /blacklisted firm".*	**As per enclosed FORM IV**
10.	The quoted products should not be under end of sales or end of support in next 05 (five) years from the date of submission.	**As per enclosed FORM XII**
11.	**Make In India*-** Class-I or Class-II Local Supplier.	A Self-Declaration Certificate regarding "Class-I or Class-II Supplier" for the tendered item as per the **Form-II** - is to be submitted.
12.	**FINANCIAL TURNOVER:** The Bidder Annual Financial Turnover should more than **Rs. 1,10,00,000/-** during the last three financial years namely 2022-23 2023-24 and 2024-25. **And** In case of OEM, the Average Annual Turn Over should be **Rs. 4,40,00,000/-** during the last three financial years namely 2022-23 2023-24 and 2024-25. The Vendors / Bidders should not have incurred	As per enclosed **FORM VIII** and Attach a separate neatly typed sheet on the letter head of Registered Chartered Accountant OR enclose copies of audited Balance Sheet and Profit & Loss Statement for the previous 3 financial year as specified in bid document and further details if required may be asked from the contractor after opening of technical

	any loss during the last 3 (Three) financial years upto 31st March, 2025. Profit after Tax should be positive for the above-mentioned period.	bids. There is no need to upload entire voluminous balance sheet.
13.	Price Reasonability Certificate (To be submitted on Firm/Company Letterhead)	**As per enclosed FORM XIII**
14.	Undertaking (To be submitted on Firm/Company Letterhead)	**As per enclosed FORM XIV**
15.	**CATALOGUE**: Firm should share the item wise catalogue for items of the offered product along with the technical bid.	Make and model no. of item must be mentioned along with detailed specification
16.	**Solvency Certificate required of ₹ 88 Lakhs for bidder.**	The certificate should be on the letter head of the bank. This certificate should have been issued within 6 months from original date of the submission of tender.
17.	**Integrity Agreement:** Signed Copy of the agreement should be submitted on the firm's letter head.	As per enclosed FORM XV.

Note:-

1. Non-Compliance with any of the above conditions/points by the bidder will amount to non-eligibility for which tender has been floated and its bid shall be liable to be rejected summarily.

_____

(Signature of the Tenderer/Owner)
Name:
Date:
Official Seal

Annexure "A"

Sr. No.	Item Description	Qty	Unit Price in INR (₹)	GST in INR (₹)	Total Price in INR (₹)
A.	**Description of Cell and Molecular Biology Laboratory Equipment**				
1.	BSL-2 Biosafety Hood - VU - NITK-DAVV	3			
2.	CO_2 incubator - VU-NITK-DAVV	3			
3.	Inverted microscope for cell visualization (VU-NITK-DAVV)	3			
4.	Deep Freezer -80 degree refrigerator - BU -VU-NITK-DAVV	4			
5.	Centrifuge (swinging bucket, 15 ml, 50 ml, and plate) VU-DAVV	2			
6.	ELISA Plate Reader - BU	1			
7.	Nanodrop spectrophotometer - VU-DAVV	2			
8.	Water purification system - VU-NITK-DAVV	3			

अनुभाग-2 / SECTION- II

तकनीकी विशिष्टता / Technical Specification

भाग – 2 /PART - II

(Bidder should submit compliance matrix along with Technical Bid)

Item details and technical specifications as mentioned below: **Supply, Installation and Commissioning of Tissue Culture/Cell and Molecular Biology Lab Facility.**

SPECIFICATION	Qty	Complied Yes/No	Deviation if any
1. BSL-2 Biosafety Cabinet –(VU/NITK/DAVV) - 03 No.			
• The Bio-safety cabinets should be 4 feet wide with the front window must be a 10" sash opening and steel with a smart coat interior			
• 7" touch screen graphical user interface displays safety and performance data and maintenance data including the total accumulated operating hours of the unit, the total UV work hours and the UV bulb install date, the filter running time, estimated residual lifetime of the HEPA filter, and the filter install date.			
• The Bio Safety Cabinet must include DC motors.			
• The motor must automatically adjust the airflow speed without the use of a damper to ensure continuous safe working conditions, even without maintenance adjustments.			
• Cabinet must use a pressure sensor (rather than an anemometer) to detect pressure drop across the supply filter, rather than in just one point across the downflow.			
• Clear visual and audible alarms are emitted from the device if the downflow, inflow, or other parameters like blower failure, Incorrect window position are not at rational settings and the operator is at risk of exposure to biohazardous materials.			
• The front of the cabinet must be angled 10° to help minimize glare.			
• The cabinet noise level must be less than <63 dB(A) for a 4-foot cabinet.			
• Cabinet with lights on and fan at operating speed should consume less than 200 watts or less			
• The cabinet must automatically reduce the fan/blower motor speed to 30% when the front window sash is in the closed position to ensure reduced energy consumption when the cabinet is not in use.			
• Programmable UV light enables timed sterilization to run to be preset before work commences. UV light must be programmable to allow for specific exposure times from 0 to 24 hours.			
• The Bio Safety Cabinet should include LED light with a power of >120 fc with Brightness level adjustment			
• The Cabinet should have provision to fit taps for Vacuum, Water, and Non-combustible gas			
• The Biosafety Cabinet should be NSF certified with a listing on the NSF website.			
• The Biosafety cabinet should incorporate a HEPA filter of the class H 14 EN 1822 or better and have a minimum efficiency of 99.995% at 0.3 µm particle size.			
• Ventilation System Exhaust and Inflow air volume approx 300-350 CFM			
• The cabinet should be provided with a fixed / adjustable Height Stand, UV Light and one set of detachable arms rests, and one / two electrical outlets.			
• The Drain Pan of the BSC should be made of Stainless Steel. The drain pan should not be painted, or powder coated.			
• Cabinet should be CE, UL certified and declaration of MOC should be provided.			
• Port provision for clean and safe routing for vacuum tubing and cables through the side of the BSC for improved organization and work efficiency.			
• Cabinet should include Rear cover kits for flat and smooth enabling easy cleaning for clean room suitability			
2. Western Blot Transfer System (Protein Blotting) -BU – 01 No.			
• The system should be an integrated transfer device designed for rapid and efficient semi-dry western blot transfers. It should be suitable for high-throughput laboratory applications.			
• The semi-dry blotter system must include the Integrated Power Supply and Capable of delivering high current for rapid protein transfer.			
• The system should have LCD touch screen for easy operation, Preprogrammed transfer methods.			
• The System should have ability to customize programs based on specific protein			

requirements.			
• The Default run time should be between 5–10 minutes.			
• The system should have Capability of simultaneous transfer of one or two mini-size gels or one midi-size gel.			
• Cassettes should be interchangeable and compatible with the main blotter station.			
3. Southern/Northern Blot System (DNA/RNA Blotting) – BU – 01 No.			
A. Vertical Electrophoresis & Blotting System			
Electrophoresis Unit			
1. Type: Small vertical electrophoresis unit suitable for DNA/RNA and protein analysis.			
2. Gel Size: Approximately 8.3 × 7.3 cm (W × L).			
3. Well Options: 10-well, compatible with 1.0 mm & 1.5 mm gel thickness.			
4. Complete System Should Include:			
6 combs (varied wells)			
10 sets of glass plates			
Spacers (1.0 & 1.5 mm)			
Sandwich clamps			
Casting clamp assembly			
Sample loading guide			
5. Application Flexibility:			
Same system must support Western blotting via compatible wet transfer module supplied in the quote.			
6. Electrophoresis Module:			
Leak-proof buffer chamber			
High-clarity gel running plates			
Safety lid with interlock preferred			
B. Horizontal/Submarine Gel Electrophoresis Unit			
1. Tray Size: Approximately 7 × 10 cm.			
2. Cell Dimensions: Approx. 12 × 26 × 6.5 cm (W × L × H).			
3. Base Buffer Volume: Around 270 mL.			
4. Accessories:			
Mini gel caster			
Suitable comb sets (5–20 wells)			
UV-transparent gel tray			
C. Semi-Dry Blotting System			
1. Type: Semi-dry electrotransfer system for fast blotting of DNA/RNA/protein.			
2. Electrodes:			
Spring-mounted platinum-coated titanium anode			
Stainless steel cathode plate			
3. Current Rating: Up to 3000 mA.			
4. Features:			
No buffer tank or gel cassette required			
Even pressure distribution			
Overload and overheating protection			
D. Vacuum Blotter System (Includes)			
Compatible vacuum pump			
Vacuum regulator			
Base with vacuum stage			
Porous vacuum plate			
Reservoir sealing O-ring			
Sealing frame			
Assorted window gaskets			
Transparent lid			
1. Power Requirement: 220–240 V, 50 Hz.			
2. Applications: DNA/RNA blotting, nucleic acid transfers			
E. Gel Dryer (Optional/Preferred)			
1. Drying Capacity: Multiple (≥2) gels simultaneously.			
2. Each drying frame should hold 1 gel.			
3. Uniform heating, adjustable temperature preferred.			

F. Power Supplies (High Voltage + High Current)			
1. High Voltage Power Supply			
1. Output Rating: Up to 5000 V / 500 mA / 400 W.			
2. Modes: Constant Voltage/Current/Power with automatic crossover.			
3. Programmability:			
Time, voltage, current with stored methods preferred			
4. Timer: Fully adjustable 1 minute to 99 hours 59 minutes.			
5. Safety:			
Overload protection			
No-load detection			
CE certified			
2. High Current Power Supply			
1. Output Rating: Up to 500 V / 2.5 A / 500 W.			
2. Jacks: 4 pairs of recessed banana jacks, in parallel.			
3. Operating Modes: Constant voltage/current with automatic crossover.			
4. Timer: 1 minute–99 hours 59 minutes.			
5. Functions: Pause/Resume, programmable steps.			
6. Compliance: CE certified.			
G. General Requirements			
1. Universal Applications: Suitable for submerged horizontal and vertical gel electrophoresis and blotting.			
2. Compatibility: All modules must be compatible and interoperable.			
3. User Documentation: Operating manuals, installation guides, and compliance certificates (CE).			
4. Benchtop Fermenter 3-5lit (BU) -01 No.			
Material of Construction:			
• All wetted parts must be minimum SS 304. SS 316 is preferable.			
• All non-wetted parts must be SS 304			
Fermentation Vessel (Jacketed)			
• Jacketed Vessel capacity: with a working volume of 3-5 liter			
• Spare vessel of equal capacity			
• Operating pressure min. 1.5 kg/cm2 for Vessel and Jacket			
• Design pressure min, 3 kg/cm2 for Vessel and Jacket.			
• Operating Temp. 121 C for Vessel and Jacket			
• Operating pressure 130 C for Vessel and Jacket			
• Glass ports for viewing			
Bottom agitation system			
• Magnetic coupling 50 to 500 rpm,			
• Geared motor with variable speed control and RPM indicator.			
Aeration system			
• Autoclavable Bacterial filters of 0.2 micron, air inlet /outlet with air sparger			
Ports on the fermenter vessel (top)			
• Pressure Gauge,			
• safety valve,			
• Air in/ vent with filters,			
• Minimum two dosing ports			
• Ports for pH and temperature			
• Min. 2 spare ports for additional sensors			
Jacket's nozzles with			
• Steam inlet /outlet			
• cooling water in/out			
• Thermostat supply in /out with spare minimum two spare nozzles			
Mounted Control Panel			
• PH control system			
• Temperature controller with heating and cooling arrangement.			
• Minimum two dosing pumps			
• Ability to modify control schema and run with external control			

Sensors			
• Autoclavable pH electrode			
• Autoclavable temperature sensor			
• Air flow sensor			
• Agitator speed indicator			
Steam Generator			
• Electrically operated boiler with all safety features			
• Minimum 6 kg /hr steam			
• Material of construction SS 304/SS316.			
Skid mounting:			
• Mounting for all above items			
• Material of construction: minimum SS 304 frame			
5. CO_2 incubator - VU-NITK-DAVV – 03 No.			
• CO2 incubator with interior chamber volume of 184 L			
• HEPA air filtration system for Class 100 (ISO Class 5) cleanroom-like conditions within only 5 minutes of a door opening.			
• High uniformity of +0.3°C @ 37°C with direct heat temperature control system with 6-sided heating,			
• Unique 140°C high temperature sterilization system,			
• Accurate TC CO2 detector, providing reliable, long service life CO2 measurement and control, is located directly within the culture chamber			
• Microprocessor PID temperature Control with control of 0.1°C and temperature range: +5°C above ambient to 55°C			
• Microprocessor CO2 Control with control of 0.1% and range: 0-20%			
• Tracking Alarm, user programmable for temperature and Co 2 function.			
• Relative humidity range of ambient to >90% with water pan design			
• Corrosion resistant, stainless-steel interior with mirror polish finish simplifies routine cleaning protocols			
• Fan assisted active airflow to prevent sample desiccation			
• Heated dual pane inner glass security door facilitates quicker recovery to desired setpoint			
• Convenient reversible door swing simplifies installation and space management			
• Four standard SS 304 shelves with maximum capacity of 23 shelves			
6. Inverted Fluorescence Microscope for cell visualization (VU-NITK-DAVV) 03 No.			
• The system should be a single compact integrated unit including microscope, digital camera, computer, modular high- power fluorescence lighting system and LCD display.			
• The LCD display is 10.1 in. with 1920 x 1200 pixel resolution and a touchscreen and all UI elements and instrument applications can be operated/performed using touch.			
• The system includes independent high output LED illumination cubes (light cubes) with integrated hard coated fluorescence band-pass excitation and emission filters for each cube.			
• The system includes a condenser with 60 mm working distance and a 4-position turret with one clear aperture and 3 phase annuli.			
• The system is capable of fitting and operating in standard laminar flow hoods and bio-safety cabinets.			
• The system is capable of being decontaminated with hydrogen peroxide and/or UV under a standard protocol.			
• The condenser includes a white light LED for transmitted illumination.			
• The fluorescence LED light cube is a single, interchangeable unit that can be easily installed, removed and exchanged and have a lifetime of at least 50,000 hours at 100% power with independent intensity controls and computer-controlled movement of each fluorescence cube.			
• The system automatically recognizes which cube is installed and adjusts the software configuration accordingly and simultaneously accommodates 2 fluorescence LED light cubes GFP & DAPI and should be supplied with DAPI.			
• The system includes an integrated high-sensitivity 3.2 MP (2064 x 1536) color CMOS sensor with 3.45 µm pixel resolution and enables the capture of images in epifluorescence, transmitted light (brightfield and phase contrast) and color.			
• The system enables images to be saved in 8-bit monochrome TIFF or PNG or 8-bit color TIFF, PNG, and JPG formats and enables real-time video to be saved in MP4 format.			
• The system enables real-time video to be saved in MP4 format.			

• Images and video can be saved, retrieved and analysed on the hard-drive, a USB device, a local network or the cloud account.			
• The system can accommodate up to 4 objectives at once and is supplied with 10x and 40x phase contrast objectives.			
• The system includes a mechanical focus wheel mechanism and includes a UI slider focus mechanism that can be controlled via mouse or touch.			
• The system can acquire two fluorescence channel images and a transmitted light image and create a merged image.			
• The system includes a fixed stage with the ability to install a optional mechanical stage accessory with a single concentric knob for x/y axis movement.			
• The system includes the software needed to acquire, review, edit and save images.			
• The system includes a Wi-Fi dongle and after successful Wi-Fi connection has been established, automatically attempt to reconnect to any previously connected networks or mapped drives after every boot until a network is disconnected			
• The system includes tools to edit image contrast independently for each channel and a histogram of pixel intensity and a scale bar. The scale-bar length can be adjusted using the touch screen or mouse and automatically updates when the magnification is changed.			
• The system includes real-time automated confluency calculation capability using a pre-trained machine learning model. No user training or manual calibration of the model is required			
• The system enables the export of confluency data as a CSV file following an auto-count.			
• The system includes a virtual keyboard and 2 USB 2.0 ports, 1 USB 3.0 port, and a Display Port.			
• The system can be connected to the local network via Ethernet using a supported USB-to-Ethernet adapter.			
7. 4° Refrigerator – NITK – 01 No.			
• Refrigerator must have (1) hinged, Toughen glass doors			
• Refrigerator must have Positive forced-air circulation			
• Refrigerator must have Automatic defrost system			
• Refrigerator must have Microprocessor based Electronic Controller with 7 Segment LED display			
• Refrigerator must have Mercury-free LED interior lighting			
• Refrigerator must have externally mounted internal light switch			
• Refrigerator must have a capacity of 335 Liters			
• Refrigerator must have set of four casters standard and installed in factory			
• Refrigerator must have digital temperature display			
• Refrigerator must have a temperature resolution to 0.1°C			
• Refrigerator must have a temperature uniformity of 1.6°C or better			
• Refrigerator must have 1 minute door open temperature recovery time of 5 minutes or faster.			
• Refrigerator must have adjustable cold and warm alarms			
• Refrigerator must have both audible and visual alarms			
• Refrigerator must have a keyed on/off power switch			
• Refrigerator must have door ajar alarm and icon			
• Refrigerator must have service alarm and icon			
• Refrigerator must have low battery alarm			
• Refrigerator must have (5) internal shelves standard			
• Refrigerator must have standard 1" access port standard			
• Refrigerator must have standard remote alarm terminals standard			
• Refrigerator must be CE Certified			
• Refrigerator must incorporate Rodent proof power cord			
• Refrigerator must use environmentally friendly SNAP & F-GAS Compliant HC refrigerants			
• Refrigerator must operate at less than or equal to 52 dba			
• Refrigerator must support a standard settable range of +1C to +8C			
• Refrigerator must include soft touch grip for full length door handles			
• Refrigerator must have Load Limit of 40kg (88.2 lbs) per Shelf			
8. Automated Glassware Washer (BU) – 01 No.			
1. General Functionality			
Automated washer capable of removing organic residues, detergents, and metal ions using			

high-temperature, high-pressure water cleaning.			
2. Construction			
Inner chamber and outer body made of **corrosion-resistant stainless steel.**			
Reinforced glass viewing window for monitoring the washing process.			
3. Capacity			
Minimum 220 L chamber capacity with **low water consumption per cycle.**			
4. Control System			
Microcomputer-based control system with **LCD / touchscreen interface.**			
Minimum **6 preset washing programs** with customization capability.			
PLC & touchscreen controls.			
5. Washing System			
Optimized **spray arms and nozzles** for high-efficiency cleaning.			
Self-cleaning program included.			
Supports **minimum 2 cleaning racks.**			
6. Temperature & Drying			
Water heating up to **99°C.**			
Independent **hot-air drying system** up to **120°C** with:			
In-built air heater			
HEPA filter			
Controlled air circulation			
Dual temperature control for water and drying systems.			
7. Safety Features			
Electronic safety door lock to prevent opening mid-cycle.			
Emergency stop switch.			
Temperature and process protection alarms.			
9. Deep Freezer -20 degree refrigerator - VU-DAVV – 02 No.			
• Refrigerator must have (1) hinged solid doors			
• Refrigerator must have Positive forced-air circulation			
• Refrigerator must have Automatic defrost system			
• Refrigerator must have Microprocessor based Electronic Controller with 7 Segment LED display			
• Refrigerator must have Mercury-free LED interior lighting			
• Refrigerator must have externally mounted internal light switch			
• Refrigerator must have a capacity of 465 Liters capacity			
• Refrigerator must have a 1-minute door opening recovery of less than or equal to 8 minutes			
• Refrigerator must have set of four casters standard and installed in factory			
• Refrigerator must have digital temperature display			
• Refrigerator must have a temperature resolution to 0.1°C			
• Refrigerator must have a temperature uniformity of 1.4°C or better			
• Refrigerator must have adjustable cold and warm alarms			
• Refrigerator must have both audible and visual alarms			
• Refrigerator must have door ajar alarm and icon			
• Refrigerator must have service alarm and icon			
• Refrigerator must have low battery alarm			
• Refrigerator must have (5) internal wire shelves			
• Refrigerator must have standard 1" rear access port standard			
• Refrigerator must have standard remote alarm terminals standard			
• Refrigerator must be CE certified			
• Refrigerator must incorporate Rodent proof power cord			
• Refrigerator must use environmentally friendly SNAP & F-GAS Compliant HC refrigerants			
• Refrigerator must operate at less than or equal to 55.1 dba			
• Refrigerator must support a standard settable range of -25C to -15C			
• Refrigerator must include soft touch grip for full door length handle			
• Refrigerator must have Load Limit of 45kg (99.2 lbs) per Shelf			
10. Deep Freezer -80°C refrigerator - BU -VU-NITK-DAVV- 04 No.			
• Ultra-low temperature freezer should be able to maintain the temperature between -50 °C degree C to -86°C degree C			

• The Freezer should have a capacity of 400-450 liters or better.			
• The Freezer should have 3 or better inner adjustable stainless-steel shelves with 2 or better inner insulated doors for better cooling.			
• The Freezer should have an alarm system with an integrated battery to take over the alarm function			
• The freezer should be able to maintain a temperature of -86°C to -50°C for more than three hours in the event of electricity failure.			
• The Freezer should use Natural /Green Refrigerant's only. CFC/HCFC-free refrigerants Power Consumption < 10.5kWh/d			
• The Freezer should have a 5-7" LCD display of a touch screen indicating the Current Temperature and voltage.			
• Touch screen should display ambient temp and data information which should be retrievable through USB.			
• The Freezer can work on an ambient temperature range between +15°C to +32°C or better.			
• Heat emission should not be more than 1500 (Btu/hr).			
• The freezer should not produce a sound more than 51dBA.			
• Freezer of 400, 2" box capacity shall control temperature to within an average peak variation from set point of +5.8 / -3.5 at a -80C set point in an empty freezer of 230V / 50Hz voltage.			
• Empty freezer of 400, 2" box capacity shall recover from door opening to -75°C set point in under 15 minutes. Supplier must provide test data verify freezer performance.			
• Freezer shall have an automatic heated pressure equalization port which allows for rapid re- entry to cabinet			
• Freezer shall have a RS485 output, dry contacts and 4-20mA output for remote monitoring purposes.			
• The Freezer should have a remote temperature monitoring option.			
• The Freezer should have four heavy-duty castors with levelling foot for easy movement and sturdy installation of the unit.			
• The external door should have a lock facility and password protection to avoid any changes in the display setting.			
• It should have a Vacuum insulation panel in addition to the PUF			
• Adjustable Door heater perimeter to avoid condensation and frosting near the door without impacting chamber temp			
11. Laboratory Homogenizer / Tissue Grinder – BU- 01 No.			
• Accommodates wide range of screw cap homogenizing tubes sizing 24 x 1.5/2 & amp; 12 x 7 ml with adaptors			
• Powerful BLDC maintenance free motor - Homogenizes the most challenging samples			
• Agitation Speed Range 0.80 m/s ~ 7.50 m/s (in steps of 0.05 m/s) and 490 rpm - 4550 rpm (in step of 30 rpm)			
• Run Time 1 second to 90 second (in 1 sec increment)			
• Pause Time 10 second to 600 second (in 1 sec increment)			
• Designed to generate lesser heat and convenient loading			
• Up to 99 programmable memory settings			
• Variable cyclic intervals for effective homogenization			
• Features an integrated lid lock for user safety, prevents lid opening during operation			
• Easy user interface with large digital display			
12. LN_2 Cryogenic Storage Dewar (with racks) BU-01 No.			
• Good quality, LN2 storage container with a capacity of 120-125 liters			
• System should have a neck diameter of 8.5 (21.5)" to minimize the evaporation rate			
• System should have Leak Proof /proven Vacuum insulation			
• The system should come with an ultrasonic level monitor to indicate the levels of LN2 and it should be factory installed.			
• Low level alarm facility should be available			
• Temperature should be maintained under minus 180 degree Celsius even when the liquid nitrogen levels are low			
• Static Evaporation Rate should not exceed 0.99 L/day			
• Static holding time of 185 days			
• The container should hold 4,000 vials of 1.2/2mL capacity			
• The System should be supplied with suitable racks to hold cryovial boxes and a cryo claw.			

• A cryo claw for easy and safe placement and retrieval of samples			
• The System should be supplied with a Wheeled cart for easy movement			
• The system should be supplied with a pair of cryogloves			
• The System should meet all international standards and CE certification			
13. Cooled Incubator – BU-01 No.			
• It should have chamber capacity of 90 ltr or better			
• Chamber internal dimensions (450 L X450 D X 450 H):mm			
• It should have Exterior construction of abrasion resistance and durable finished by heat cure epoxy coating on steel exterior(1 ~ 1.2mm thick).			
• It should have Interior construction of SS 304.			
• It should have Chamber illumination.			
• It should be supplied with Stainless steel Wire Mesh Shelves 2 nos.			
• It should have fitted with stainless steel vertical channels (CNC Press Punched) for height adjustment of trays in steps of 25mm.			
• It should have seamless round cornered internal chamber ensures easy cleaning.			
• It should have Eye level door mounted controller with flush but embossed button panel for easy setting, access and check up of operating status.			
• It should have Efficient internal circulating fan(s) with self lubricating sleeve bearings for long life and silent operation.			
• The bottom of internal chamber should be Solid and plain without any electrical fitttings.			
• It should have Digital PID temperature controller with stainless steel sheathed PT100 sensor for precise monitoring & control.			
• The controller should have timer and auto tuning and alarms.			
• The controlle r should have Seven segment LED display.			
• It should have Temperature range: +5°C to 60°C			
• It should have control accuracy ±0.5°C.			
• It should have Over temperature safety protection.			
• It should have Over current protection.			
• It should have High tempered safety glass of 5mm for internal door.			
• It should have PUF insulation			
• It should have Heavy duty PU casters for ease of movement.			
• It should have Environment friendly CFC free hermetically sealed compressor.			
• Supply Voltage: 230 V AC, 50 HZ, Single phase.			
• Manufacturer shall have provide calibration reports with NABL traceability.			
• Manufacturer shall be ISO 13485 certified & should submit photocopy for the same.			
• Local Service Setup for prompt and efficient post-sales support.			
14. Waterbath - VU-NITK-DAVV – 03 No.			
• The Digital water bath should have tank capacity of 5 ltr, with tank size approx - 300 w x 150 d x 150 h (mm).			
• The water Bath should be of double wall made up from fully stainless-steel SS 304, including bottom as per GMP standards. External body should be mat and internal with glossy finish.			
• The water bath should have inner die pressed tank with thickness of at least 0.7 mm.			
• It should have seamless tank to prevent heat loss in operation to reduce utility consumption.			
• The water bath should have over temperature audio & visual alarm to prevent media from the over heating.			
• The water bath should have dry run cut off for safety to prevent heater and chamber.			
• The water bath should be provided with fuse for electrical safety.			
• The water bath should be provided floating overshoot temperature alarm and cut off.			
• The water bath should be provided with illuminated ON /OFF switch			
• The water bath should have operating temperature range: Room temperature +5°C – 99.9°C			
• The water bath should have PID temperature controller with inbuilt soak timer (0 TO 9999 min) & with dual LED display 0.1 resolution.			
• The water bath should have control accuracy of ± 0.3°C & Uniformity of ± 0.3°C at 37°C			

• The water Bath should have externally cladded heater which enables clear bottom inside the bath for keeping samples without any obstacle.			
• The water Bath should be provided with Gable lid of stainless steel.			
• The water Bath should be supplied with calibration certificates traceable up to NABL.			
• Supply Voltage: 230 V AC, 50 HZ, Single phase.			
• The water bath should be CE certified & Manufacturer shall be ISO 13485 & should submit photocopy for the same.			
• The water bath should be ISO9001 certified from notified body & should submit photocopy for the same.			
15. Centrifuge (swinging bucket, 15 ml, 50 ml, and plate) VU-DAVV -02No.			
• Refrigerated Table Top Centrifuge			
• Centrifuge must have Max Capacity: 4x145ml			
• Centrifuge must Max Speed: 17,800 RPM & M ax RCF: 30,000xg			
• Time range 99Hours, 59 minutes plus continuous operation			
• CE marked, IVD compliant,UL listed- for safety containment			
• Supplied with Swing angle rotor which can accommodate 4x145 ml tube, 4x50 ml tube & 8x15 ml tube with minimum 4,500 RPM with 3,252 g force.			
• Centrifuge supply Swing bucket & Should accommodate 04 standard or 02 deepwell plate with minimum 4400 RPM.			
• Rotor shall be installed and removed with no tools in less than 5 seconds without any tools			
• Biocontainment sealing option ,with single hand operation .			
• Manufactured with quality materials providing broad chemical resistance with exceptional strength for durability and reliability			
• Low noise levels, including just 52 dBA at performance of 17,850 rpm/30,279 x g in refrigerated units, to ensure a peaceful laboratory			
• One-touch operation with pre-saved protocols			
• Highly visible backlit display for easy reading of parameters across the lab			
• Optional indicators at end of run, including automatic lid opening, full flashing			
• display and adjustable audible signal			
Dimensions			
• Height (lid open) 70 cm (27.5 in) x Height (lid closed) 32 cm (12.6 in)			
• Width 46 cm (18.1 in)			
• Depth 67 cm (26.4 in)			
16. Probe Sonicator – NITK-01 No.			
• Ultrasonic Power : 120W (Average)			
• Ultrasonic Frequency : 20+2 KHz			
• Sample Capacity: 2 ml - 250 ml			
• Processor Controller with time Operation: Micro Processor based Programmable Timer Two Digit Display is Provided for Selecting On Off Time and Total time of Processing Cyclic Mode			
• Probe Tips : Detachable type made of Titanium Grade 6mm Dia OR 12 mm			
• Cyclic Mode on : Maximum on time 15 Seconds no clamping off time			
• Ultrasonic Horn : Is made of Titanium Grade and is fitted with PZT Transformer			
• Ultrasonic Generator Tubing : Is Housed in a separate box. It has auto facility & amp; the required control Unit			
• Standard Accessories : Stand for Ultrasonic Probe			
• Sonicator & amp; Jack type for sample Placement.			
17. ELISA Plate Reader – BU – 01 No.			
1. Standards & Certifications			
The ELISA Plate Reader **must be CE certified**.			
The system should comply with international safety and EMC standards.			
2. Performance Parameters			
Type of Reading: Microplate (open system)			
Plate Capacity: 40–96 samples at a time			
Light Source: Long-life **LED illumination**			
Digital Light Control Technology: Required			
Linearity: Up to **3.5 OD**			
External Laser Printer Support: Yes			

External Keyboard: Supported			
Interfaces:			
RS-232			
USB			
Wi-Fi & Ethernet			
3. Reader Specifications			
Dynamic Range (OD): 0 to 4.0 OD			
Wavelength Range: 400–800 nm			
Standard Filters:			
405 nm			
450 nm			
490/492 nm			
578 nm			
630 nm			
700 nm			
Provision for Additional Filters: Minimum **2 optional filters**			
Photometric Resolution: 0.001 OD			
Photometric Accuracy:			
±1% (0–3 OD)			
±2% (3–4 OD)			
Optical Reading Channels: Minimum **8 channels**			
Reading Speed:			
10 sec (single wavelength)			
20 sec (dual wavelength)			
4. User Interface & Printing			
User Interface:			
7-inch capacitive touch LCD			
5. Analysis Modes			
Absorbance			
Cut-Off			
Multi-Standard Curve Analysis			
6. Physical & Electrical Specifications			
Weight: Approx. **5 kg**			
Power Supply: Standard AC input (95–230 V, 50/60 Hz)			
18. Small Environmental Chamber (Plant/Cell Growth) – BU -01 No.			
1. Chamber Volume			
Interior usable volume: **1.6 – 2.0 m³**.			
2. Growth Height			
Adjustable **10–45 inches (25.4–114.3 cm)**.			
3. Construction			
Exterior: wet-painted galvanized or electro-zinc plated steel.			
Interior: corrosion-resistant galvanized/galvannealed steel with reflective white powder coat.			
Double-wall insulation (~2" CFC-free).			
4. Shelving			
Minimum **2 adjustable corrosion-resistant shelves**, expandable to multitier configuration.			
5. Doors			
Full-width access door with **magnetic gasket** and **key lock**.			
Optional observation window.			
6. Mobility & Levelling			
Heavy-duty **caster wheels** with swivel + front lock.			
Adjustable levelling feet or stable mounting legs.			
7. Ventilation			
Manually adjustable **fresh air intake** from outside.			
8. Lighting System			
High-efficiency **LED lighting (linear light strips)**.			
Intensity: **up to 120 µmol/m²/s @ 6"**, dimmable 5–100%.			

Programmable via controller.			
9. Temperature Control			
4–44°C (lights on) / 2–44°C (lights off).			
Precision: ±0.5°C			
Refrigeration with **hot-gas bypass** for stability.			
High- and low-temperature alarms (audible & visual).			
10. Optional Humidity Control			
Up to **85% RH ±10%** between 15–30°C.			
Uses pan-type or ultrasonic humidifier.			
Requires demineralized water supply.			
11. CO_2 Control			
Integrated **CO_2 adder & remover** for precise CO_2 control.			
12. Controller			
Microprocessor or touchscreen controller.			
Programmable control of:			
Temperature			
Lighting			
19. Biosafety spill and decontamination kit – 01 No.			
PPE: nitrile gloves, gown, mask, shoe cover, face shield, safety goggles			
Adsorbent: Tissue roll, cotton roll			
Disinfectant: bleach solution 1:10			
Tools: forceps, tongs, dustpan, hand broom, squeegee, cleanup dusters			
Disposal: biohazard waste bags (red, white, yellow)			
Signage: biohazard spill warning sign			
Instructions: leaflet for biological lab user			
20. Cooled mini centrifuge - VU-NITK-DAVV-03 No.			
• Maximum RCF 17,000xg			
• Maximum Speed >13,200 RPM			
• Large LED display for Time, Speed and Temperature			
• Max Noise Level: 50 dBA			
• Temperature set range from -9 °C to + 40°C			
• Accelaration/Deccelaration time 8Sec/9 Sec			
• Time set range 1 to 99 min, 1 min increments			
• Toggle between RPM and RCF			
• Induction maintenance free motor			
• Wide selection of more than 5 rotors in single/same unit for future upgrade			
36x0.5ml rotor			
PCR4x8 (32x0.2ml) rotor with Click seal Biocontainment lid.			
PCR 8x8(64x0.2ml) rotor			
Dual Row without using adapters rotor 18x2 plus 18x0.5ml for simultaneous run of two different volumes			
• Supplied with 24x1.5ml/2ml rotor with click seal lid, Biocontainment certification required			
21. Nanodrop spectrophotometer - VU-DAVV-02 No.			
• The instrument should accept 1–2 µL sample volume.			
• The instrument should measure DNA, RNA, and protein concentration with A260/A280 and A260/A230 ratios.			
• The instrument should measure absorbance in the range of 0.04–30 Abs (10 mm equivalent).			
• The instrument should measure up to 1,500 ng/µL for dsDNA and 1,200 ng/µL for RNA.			
• The instrument should detect as low as 2.0 ng/µL dsDNA (1.6 ng/µL RNA).			
• The instrument should use sample-retention microvolume technology without cuvettes.			
• The instrument should have a built-in touchscreen and operate without a computer.			
• The instrument should store at least 1,000 measurements and support USB data export.			
• The instrument should complete a measurement in 5 seconds or less.			
• The instrument should have approximate dimensions of 27 × 22 × 22 cm.			
• The instrument should operate on a 100–240 V universal power supply.			

22. Water purification system - VU-NITK-DAVV-03 No.			
• Local RO with tank and Pretreatment should be supplied with main unit.			
• It should be standalone Single stage independent system to produce Endotoxin and bacteria free ultrapure water Type 1 and Type 2 directly from potable water supply from one single system.			
• System should be capable of providing ASTM Type I (18.2 Mega ohm resistivity) Water to cater Analytical applications			
• System should be capable of providing ASTM Type II (1-10 Mega ohm resistivity) Water from potable tap water			
• Entire system should have only single cartridge except RO to avoid the consumables replacement cost			
• System has feed water acceptance level of Conductivity up to 1500 µS/cm or more, Fouling Index (SDI) > 3 and Total Chlorine less than 0.1 ppm or more			
• System should have a pretreatment kit with 1µm filter, Harness Stabilizer and Carbon			
• System should have RO Flow rate 16 Liter/hour or more			
• Type 1 water flow rate should be equal or more than 1.0 Liter/Minute			
• Reverse Osmosis module is made up of thin film composite polyamide RO membrane with rejection rate of 94 - 99%			
• System has feed water specific Purification pack before UV lamp consisting of mixed bed ion exchange resin/ micro filter / activated carbon to ensure better purification and longer life of the cartridges.			
• System should have dual wavelength 185/254 nm for UV-oxidation for reducing the content of microorganisms and their metabolites to ensure the quality of Type 1 water			
• Type 2 water available from imported external HDPE storage tank. Tank stored Water is recirculated through High Purity Cartridge to maintain purity and avoids stagnancy.			
• System should have to fed with imported Pre treatment water as to take the excessive care.			
• More than 30 liters imported PE tank/reservoir with auto cutoff level sensors. Stored water level can be adjusted as lab needs change			
• Production rate of Purified Water @ 16 liters/hr. or more			
• System should have the pre treatment from the same manufacturer.			
Quoted system must have at least 250 installations in India including Government Institute of national importance			
Ultra-Pure (Type I) water:			
Resistivity..... 18.2 Mega Ohms.cm @ 25 Degree C.			
TOC ..... < 5 ppb			
Bacteria ..... < 0.01 cfu /ml or better			
Particulates (.22 micron)..... < 1 /ml			
Flow rate .....≥ 1.0 Ltr/Minute.			
Ultra-Pure (Type II) water:			
Resistivity..... > 1 Mega Ohms.cm @ 25 Degree C.			
TOC ..... < 30 ppb			
Production rate..... ≥ 16 Liter/hr.			
23. UV Transilluminator - White light – DAVV-01 No.			
• The instrument should have dual-LED light sources (blue and white LED).			
• The instrument should have an emission wavelength of ~470 nm (blue LED) with amber filter option (~580 nm).			
• The instrument should allow three-level adjustable light intensity.			
• The instrument should have a gel viewing area of 12 × 18 cm.			
• The instrument should operate on 100–240 V power supply.			
• The instrument should have input current 2.0 A (amperage).			
• The instrument should have dimensions 18.5 × 22 × 3.0 cm (L × W × H).			
• The instrument should have automatic power-off after 5 minutes of use.			
• The instrument should use LED lighting (no UV) to improve safety for eyes and skin compared with UV transilluminators.			
24. Hot air Oven – DAVV – 01 No.			
• It should have Chamber capacity of 90 ltr or better			
• It should have Internal dimensions (450 L x 450 D x 450 H): mm			
• It should have Exterior construction of abrasion resistance and durable finished by heat cure epoxy coating on steel exterior			

• Chamber should be at least 1 mm thickness.			
• Oven Interior construction must be of stainless steel 304 grade.			
• It should have door construction having double tempered sandwich glass window to enable user for easy viewing of samples while in operation.			
• It should be provided with special "Incoloy sheathed spread" out shaped heater for uniformity and efficient heating			
• Oven should be provided with Impellor type Aluminium blower for internal circulation for better uniformity.			
• It should be provided with Non contact type door switch for auto cut off when door opens.			
• It should be provided with SS Wire Mesh Shelves 2 nos, with adjustable height in steps of 25 mm.			
• It should have Seamless round cornered internal chamber ensures easy cleaning.			
• It should have Solid and plain bottom without electrical items.			
• It should have Digital PID temperature controller with PT100 sensor for precise monitoring & control			
• Controller should be Equipped with timer, auto tuning and alarms.			
• Controller should have Seven segment LED display.			
• Oven Temperature range: +50˚C to 250˚C			
• Control accuracy ±0.5ºC			
• It should have independent Over temperature safety protection.			
• It should have Over current protection.			
• Oven should be CE certified			
• Supply Voltage: 230 V AC, 50 HZ, Single phase			
• Manufacturer shall have provide calibration reports with NABL traceability.			
• Manufacturer shall be ISO 13485 certified & should submit photocopy for the same.			
• Manufacturer shall be ISO 9001 certified from EU notified body & should submit photocopy for the same.			
25. Vortex Mixer – DAVV – 02 No.			
• Adjustable speed from 300 to 4200 RPM & amp; timer setting			
• Digital display - Shows speed and time alternatively at every 5 secs			
• Unique programmable pulse mode function - User enabled run time and off time setting			
• 3 way switch (On/Off/Touch) with Power On LED			
• Orbital diameter of 4 mm			
• Can be used in hoods & amp; cold rooms			
• Sticker indicator of permissible speed for various attachments			
• Dimensions (W X D X H) 205 x 136 x 138.5 mm			
• Speed Setting 300-4200 RPM			
• Timer Setting 0-999 mins (min/sec display)			
• Pulse mode Yes, Programmable Pulse			
• Max Load Capacity 500 gm			
• Weight 2.8 kg			
• Optional Attachments: Universal platform for attaching either - microplate / microtube / flask attachments			
26. Rocker – DAVV-01 No.			
• It should have a Tumbling movement of 7°			
• Speed ranges from 15-120RPM, speed can be set in steps of 5RPM			
• Shaker with programmable mode to save protocols			
• It should have spiked rubber mat for 15 and 50 ml tube placement and sticky mat for placing culture plates			
• It should have Digital display with speed and time parameters can be viewed			
• Should have Brushless Dc motor for long maintenance free life			
• It should have pulse mode option			
• It should have timer range from 1min till infinity mode			
• It should have option for stacker			
• Its permissible load capacity should be 5Kg			
• Platform dimension to be 300 x 250mm			

• Should have the feature to save the last run protocol			
27. Icematic Machine – DAVV – 01 No.			
Minimum Ice Flake Manufacturing Capacity (in Kg/24 hrs) 120			
Design			
No of door-One			
Cooling Method-Air cooled			
Type of Insulation-PUF			
Compressor Details-AC Reciprocating Compressor			
Material			
Body material - Stainless Steel 304			
Storage bin material - Stainless Steel 304			
Cooling Coil Material - Copper			
Instrument Features and Facilities available in Ice Flake Machine			
Water Inlet, Water Drain Pipe, ON/OFF Switch, Digital display, Automatic low water cut off, full ice storage cut off			
CAPACITY AND DIMENSION			
Minimum Stainless Steel - 304 Sheet Thickness (in mm):0.8			
Minimum ABS Plastic Sheet Thickness at any			
Point(in mm) : 2.0			
Ice Flake Storage Capacity(in kg) 40			
Overall length(mm) : 611			
Overall width(mm) : 500			
Overall Height(mm) : 950			
Minimum Insulation Thickness (in mm) : 10.0			
Flake Ice Thickness (in mm) : 1.5 to 2.5			
Performance			
Ambient Temperature upto 450C			
Maximum Storage Chamber Temperature 80°C			
Production Start Time (Within Minute) 10			
Power Connection Electrical Operated			
Power Consumption (watt) 220			
Support Voltage Single phase 230 V			
Finishes and Colour Finish Polished			
28. Gradient - PCR – DAVV – 01 No.			
• The instrument should have a 96-well, 0.2 mL VeriFlex block.			
• The instrument should have a temperature range of 0–100 °C.			
• The instrument should have a thermal accuracy of ±0.25 °C.			
• The instrument should have a thermal uniformity of <0.5 °C.			
• The instrument should have a maximum ramp rate of 3.5 °C/sec.			
• The instrument should have a 5-inch touchscreen display.			
• The instrument should have USB, Wi-Fi, and Ethernet connectivity			
• The instrument should operate on 100–240 V power supply.			
• The instrument should weigh approximately 5.9 kg.			
• The instrument should have dimensions of 39 × 19 × 20 cm.			
• The instrument should store more than 1,000 PCR programs.			
29. Microwave oven – 01 No.			
• Steam Clean: Yes			
• Disinfect: Yes			
• Deodorizer: Yes			
• Auto Defrost: Weight Defrost			
• Solo Mode: Yes			
• Mode: Yes (Convection/Microwave/Grill)			
• Fermentation: Yes			
• Auto Cook Menus: 125 Standard Menus			
• Dry Roast: Yes			

• Temperature Setting: 10 (110 - 200)			
• Power Levels: 10			
• Keep Warm: Yes			
• Power Save: Yes			
B. **Description of Accessory Equipment for Cell and Molecular Biology Laboratory:**			
1. Pipette sets - BU-VU-NITK-DAVV – 04 sets			
• Range - 0.2-2µL			
• Range - 2 20µL,			
• Range - 20-200µL			
• Range - 100- 1000µL			
2. Multi-channel pipette – 01 No.			
• Should be Light weight, Least RSI (Repetitive Strain Injury)			
• Advanced volume gearing mechanism- Modular volume adjustment mechanism prevents sudden change in the volume setting.			
• Fully Autoclavable			
• Piston should be made up of rust free Polyether Imide.			
• Separate soft touch tip ejector			
• Ergonomic design			
• In lab calibration and easy maintenance - Easy to open (No special tool required)			
• Extremely light weight reduces the risk of Repetitive strain injury			
• Super blow out piston with volumes of 50 ul and below volumes ensures delivery of micro size drops.			
3. Hot plates and stirrer -BU-VU-NITK-DAVV—4 No.			
• Plate Size: 7 x 7 inch ceramic			
• Temperature: Ambient to 500°C			
• Stirring: 100-1500 rpm			
• Display: Digital LED display			
• Safety: Hot top indicator light			
• Plate Material: Chemical resistant ceramic			
• Stir Bar: PTFE coated magnetic			
• Power: 230V AC, 600W			
4. Precision weighing balance BU-VU-NITK-DAVV – 04 No.			
• Capacity: 220g or 320g			
• Readability: 0.1 mg (0.0001g)			
• Repeatability: ±0.1 mg			
• Linearity: ±0.2 mg			
• Pan Size: 90 mm diameter			
• Calibration: Internal motorized			
• Display: Large LCD with backlight			
• Draft Shield: 3 sliding doors			
• Connectivity: RS232, USB			
• Verification: Class I certified			
5. **Cryobox Storage System (Racks + Boxes)**			
Cryo Box-100			
• Stores vials at the lowest of temperatures. Designed in a way to arrange, orient, identify and access vials with ease. PC Autoclavable.			
• Places : 100			
• Capacity ml : 1 &1.8ml			
• Available in Red, Blue, Green, Yellow.			
Cryo Box Rack			
• Polycarbonate moulded racks for multi-tiered storage of cryo boxes.Vertical construction saves precious bench space.			
• Material: PC			
• Dimensions : 14x14x30 [L x B x H cm]			
• Places : 4 boxes			
6. **Weighing balance - VU-DAVV – 02 No.**			
• 200g / 0.001g (1mg)			

• Internal calibration			
7. 37 degree plate incubator - BU-NITK-02 No.			
• It should have Chamber capacity of 90 ltr or better			
• It should have Internal dimensions (450 L x 450 D x 450 H): mm			
• It should have Exterior construction of abrasion resistance and durable finished by heat cure epoxy coating on steel exterior			
• It should have Interior construction of stainless steel 304.			
• It should have Chamber thickness of at least 1mm.			
• It should be provided with Frameless tempered safety glass inner door enables easy monitoring without variation in temperature.			
• It should have Special Quartz tube enclosed heaters for safety and efficient heating			
• It should be provided with SS Wire Mesh Shelves 2 nos, adjustable height in steps of 25 mm.			
• It should be provided with Seamless round cornered internal chamber ensures easy cleaning.			
• It should have Eye level door-mounted controller for easy access and check operating status.			
• It should have Internal circulating fan.			
• It should have Solid and plain bottom without electrical.			
• It should have Digital PID temperature controller with PT100 sensor for precise monitoring & amp; control			
• Controller should be Equipped with timer, auto tuning and alarms.			
• Controller should have Seven segment LED display.			
• Incubator Temperature range: ambient +5˚C to 70˚C			
• Control accuracy ±0.5°C			
• It should have independent Over temperature safety protection.			
• It should have Over current protection.			
• Inner glass door should of High tempered safety glass of 5mm.			
• Incubator should be CE certified			
• Supply Voltage: 230 V AC, 50 HZ, Single phase			
• Manufacturer shall be ISO 13485 certified & should submit photocopy for the same.			
• Manufacturer shall be ISO 9001 certified from notified body & should submit photocopy for the same.			
• Manufacturers must provide calibration reports with NABL traceability.			
8. Shaker incubator - VU-DAVV -02 No.			
• Micro-Processor Based			
• Single Controller			
• All in One Display - Graphic LCD 128 x 64			
• Motor Type- Brushless			
• RPM-Range- 10-300			
• RPM Control- Digital POD			
• Temperature Range- Ambient +5°C to 60°C			
• Temperature Accuracy - 0.1°C			
• Alarms: Over-temperature protection			
• Capacity (No. of 250 ml Flasks) - 16 Flasks			
• Interior Body- SS 304			
9. pH meter BU - VU-NITK-DAVV-04 No.			
• Range: pH 0-14 with 0.001 resolution			
• Accuracy: ±0.002 pH			
• Temperature: -5 to 110°C			
• Compensation: Automatic/Manual ATC			
• Electrodes: Glass combination electrode			
• Display: Large LCD with backlight			
• Calibration: 1-5 point capability			
• Memory: 1000 data points			
• Interface: USB, RS232			
• IP Rating: IP54			
10. Dry heat bath BU-VU-DAVV – 03 No			

• Dry heating block with temperature range from Ambient +5° to 120° with a temperature accuracy of +/- 0.3°C			
• Uniform temperature distribution across the block with an uniformity of +/- 0.1° C			
•2 heating blocks with long timer range from 1 min to 99 hours 59 mins and infinite mode			
• Large and clear display shows critical parameters and all set values in one glance without any toggle			
• User programmable feature allows the user to set upto 99 user-defined programs.			
• Aluminium made blocks			
• Corrosion resistant stainless-steel instrument top and heating wells.			
• Safe temperature protection provides exceptional safety and ensures risk-free operation.			
• PT-1000 temperature probe and thermometer well for accurate measurement of temperature.			
• Should have block for 28 x 1.5 ml, 12 x 15 ml, 5 x 50 ml, Hybrid block (32 x 0.2 ml + 20 x 0.5 ml + 9 x1.5/2ml)			
11. Digital Vortex Mixer – BU-01 No.			
• Adjustable speed from 300 to 4200 RPM & timer setting			
• Digital display - Shows speed and time alternatively at every 5 secs			
• Unique programmable pulse mode function - User enabled run time and off time setting			
• 3 way switch (On/Off/Touch) with Power On LED			
• Orbital diameter of 4 mm			
• Can be used in hoods & cold rooms			
• Sticker indicator of permissible speed for various attachments			
• Dimensions (W X D X H) 205 x 136 x 138.5 mm			
• Speed Setting 300-4200 RPM			
• Timer Setting 0-999 mins (min/sec display)			
• Pulse mode Yes, Programmable Pulse			
• Max Load Capacity 500 gm			
• Weight 2.8 kg			
• Optional Attachments :Universal platform for attaching either - microplate / microtube / flask Attachments			
12. SDS-Page unit - VU-DAVV-02 No.			
• The instrument set should include 2 hand-cast stations, glass plate sets, gel combs, gel spacers, and polymerization reagents.			
• The instrument should allow manual casting of polyacrylamide gels.			
• The instrument should provide leak free plate sealing using a load and lock mechanism.			
• The instrument should include a tilt design casting stand to minimize spillage.			
• The instrument should be compatible with mini gel electrophoresis tanks.			
• The bundle should include all necessary reagents for gel casting.			
13. Benchtop Magnetic Pellet Mixer – BU-01 No.			
Mixing Capacity- 0.5 L to 5 L (benchtop models); larger models for industrial use can reach 100 L or more			
Speed Range-100 - 1500 RPM, with some models offering up to 3000 RPM			
Speed Control- Stepless (analog knob) or digital display (LED/LCD)			
Plate Material- Stainless steel, ceramic-coated aluminum, tempered glass, or acrylic glass			
Plate Dimensions- Typically between 100x100 mm and 180x180 mm			
Motor Type- DC motor or brushless DC (BLDC) motor			
Power/Voltage-100-240 V AC, 50/60 Hz; Power consumption around 5W for basic models, up to 630W for heated versions			
Safety Features- Hot surface warning, over-temperature protection, IP protection class (e.g., IP42)			
14. Agarose Gel unit - VU-DAVV-02 No.			
• Gel Size: 10 x 10 cm or larger			
• Tank Material: Polycarbonate or acrylic			
• Comb Options: 8, 12, 15 well combs			
• Buffer Volume: 300-500 ml			
• Safety Lid: Interlocking lid design			
• Casting: Integral gel casting system			
• Compatibility: Horizontal electrophoresis			

• Voltage: 50-300V			
• Current: Up to 400mA			
• Power Supply: External compatibility -included			
15. Power pack -VU-BU-DAVV-03 No.			
• The instrument should have a 4.3inch LCD touchscreen.			
• The instrument should operate in constant voltage, constant current, or constant power modes.			
• The instrument should have maximum output of 300 V, 500 mA, and 120 W.			
• The instrument should provide four output terminals for running multiple gels simultaneously.			
• The instrument should include safety protections for overcurrent, overvoltage, and load changes.			
• The instrument should operate on 230 VAC power.			
16. Transfer apparatus for Western BU-VU-DAVV-03 No.			
• The system should be an integrated transfer device designed for rapid and efficient semi-dry western blot transfers. It should be suitable for high-throughput laboratory applications.			
• The semi-dry blotter system must include the Integrated Power Supply and Capable of delivering high current for rapid protein transfer.			
• The system should have LCD touch screen for easy operation, Preprogrammed transfer methods.			
• The System should have ability to customize programs based on specific protein requirements.			
• The Default run time should be between 5–10 minutes.			
• The system should have Capability of simultaneous transfer of one or two mini-size gels or one midi-size gel.			
• Cassettes should be interchangeable and compatible with the main blotter station.			
17. **Autoclave BU-VU-NITK-DAVV – 04 No.**			
• Inner & Outer chamber made of SS (Lid- S. Steel lined) is tightened by radial			
• Locking/Wing Nut & fitted with a PID Based Automatic temperature & amp;			
• Pressure controller with LCD Display of time and temperature programmable by user which enables automatic purging of stale air, sterilizing hold time & automatic exhaust of pressure fitted with audio alarm/ buzzer at the end of cycle.			
• Working Temperature Up to 121C & amp; Operating Pressure up to 15-20			
• PSI (Adjustable), Workable on 220 / 230 volts A.C.			
• Height x Dia: 500mm x 300mm			
• Height x Dia : 20 & quot; x 12& quot;			
• Capacity (Approx.) : 40 Ltr			
• Load.: 2.0 KW			
• Radial Locking			
18. Vacuum Pump – NITK-01 No.			
• Excellent suitability for HPLC & Filtration applications.			
• Supplied complete with Vacuum Gauge & Regulator.			
• Max Flow Ltrs./Min.: 15			
• Max Vacuum Inches of Hg: : 27			
• Max Pressure PSI: 35			
• Approx. Weight 4.10 Kg			
• Motor : 1/16 HP			

Schedule of BOQ & Delivery location-

A. Description of Cell and Molecular Biology Laboratory Equipment								
S.No	Name of Equipment	Qty	Delivery Location				Complied Yes/No	Deviation if any
			VU	NITK	DAVV	BU		
1	BSL-2 Biosafety Hood - VU - NITK-DAVV	3	1	1	1			
2	Western Blot Transfer System (Protein Blotting) -BU	1				1		
3	Southern/Northern Blot System (DNA/RNA Blotting) - BU	1				1		
4	Benchtop Fermentor 3-5lit (BU)	1				1		
5	CO_2 incubator - VU-NITK-DAVV	3	1	1	1			
6	Inverted microscope for cell visualization (VU-NITK-DAVV)	3	1	1	1			
7	4 degree Refrigrator - NITK	1		1				
8	Automated Glassware Washer (BU)	1				1		
9	Deep Freezer -20 degree refrigerator - VU-DAVV	2	1		1			
10	Deep Freezer -80 degree refrigerator - BU -VU-NITK-DAVV	4	1	1	1	1		
11	Laboratory Homogenizer / Tissue Grinder - BU	1				1		
12	LN_2 Cryogenic Storage Dewar (with racks) BU	1				1		
13	Cooled Incubator - BU	1				1		
14	Waterbath - VU-NITK-DAVV	3	1	1	1			
15	Centrifuge (swinging bucket, 15 ml, 50 ml, and plate) VU-DAVV	2	1		1			
16	Probe Sonicator - NITK	1		1				
17	ELISA Plate Reader - BU	1				1		
18	Small Environmental Chamber (Plant/Cell Growth) - BU	1				1		
19	*Biosafety Spill & Decontamination Kit - BU*	1				1		
20	Cooled mini centrifuge - VU-NITK-DAVV	3	1	1	1			
21	Nanodrop spectrophotometer - VU-DAVV	2	1		1			
22	Water purification system - VU-NITK-DAVV	3	1	1	1			
23	UV Transilluminator - White light - DAVV	1			1			
24	Hot air Oven - DAVV	1			1			
25	Vortex Mixer - DAVV	2			2			
26	Rocker - DAVV	1			1			
27	Icematic Machine - DAVV	1			1			
28	Gradient - PCR - DAVV	1			1			
29	Microwave oven - DAVV	1			1			
B.	**Description of Accessory Equipment for Cell and Molecular Biology Laboratory:**							
1	Pipette sets - BU-VU-NITK-DAVV	4	1	1	1	1		
2	Multi-channel pippets - BU	1				1		
3	Hot plates and stirrer -BU-VU-NITK-DAVV	4	1	1	1	1		
4	Precision weighing balance BU-VU-NITK-DAVV	4	1	1	1	1		
5	Cryobox Storage System (Racks + Boxes) BU	1				1		
6	Weighing balance - VU-DAVV	2	1		1			
7	37 degree plate incubator - BU-NITK	2		1		1		
8	Shaker incubator - VU-DAVV	2	1		1			
9	pH meter BU - VU-NITK-DAVV	4	1	1	1	1		
10	Dry heat bath BU-VU-DAVV	3	1		1	1		
11	Digital Vortex Mixer - BU	1				1		
12	SDS-Page unit - VU-DAVV	2	1		1			

13	Benchtop Magnetic Pellet Mixer - BU	1				1		
14	Agarose Gel unit - VU-DAVV	2	1		1			
15	Power pack -VU-BU-DAVV	3	1		1	1		
16	Transfer apparatus for Western BU-VU-DAVV	3	1		1	1		
17	Autoclave BU-VU-NITK-DAVV	4	1	1	1	1		
18	Vacuum Pump - NITK	1		1				
Technical support- The firm must have a strong technical support team and/or an authorized service center available in Indore, Bhopal, and Delhi, capable of attending to and rectifying technical issues within 24 hours								

Note:

A. **The bidder should submit his acceptance against each column as YES/NO and if No, the bidder should specify the deviation.**

B. **Valid proof of the document in support of the claim to be enclosed with the technical bid.**

C. **All communications with respect to the tender shall be addressed only to:**

Assistant Registrar (R&D),
Materials Management Section
6th Floor, Abhinandan Bhawan (West Wing),
Indian Institute of Technology, Indore
Khandwa Road Simrol, Indore- 453552
Tel.: 0731660- Ext. 5552/3551
Email: rndmms1@iiti.ac.in, somms@iiti.ac.in, arrnd@iiti.ac.in

(Signature of the Bidder, with Official Seal)

अनुभाग-2 / SECTION- II

अमूल्यंकित तकनीकी बोली / UNPRICED TECHNICAL BID

भाग – 3 /PART - III

(Bidder should provide the following details on Letter head)

Supply, Installation and Commissioning of **Tissue Culture/Cell and Molecular Biology Lab Facility (with Heating Capacity)**

TENDER NO.: IITI(MM)/BSBE/147/PRJ/HJ/2025-2026 Date:

Name of the Bidder _____

Sr. No.	Item Description	Qty	Make	Model	HSN Code	GST %	Country of Origin
A.	**Description of Cell and Molecular Biology Laboratory Equipment**						
1.	BSL-2 Biosafety Hood - VU - NITK-DAVV	3					
2.	Western Blot Transfer System (Protein Blotting) -BU	1					
3.	Southern/Northern Blot System (DNA/RNA Blotting) - BU	1					
4.	Benchtop Fermentor 3-5lit (BU)	1					
5.	CO_2 incubator - VU-NITK-DAVV	3					
6.	Inverted microscope for cell visualization (VU-NITK-DAVV)	3					
7.	4 degree Refrigrator - NITK	1					
8.	Automated Glassware Washer (BU)	1					
9.	Deep Freezer -20 degree refrigerator - VU-DAVV	2					
10.	Deep Freezer -80 degree refrigerator - BU -VU-NITK-DAVV	4					
11.	Laboratory Homogenizer / Tissue Grinder - BU	1					
12.	LN_2 Cryogenic Storage Dewar (with racks) BU	1					
13.	Cooled Incubator - BU	1					
14.	Waterbath - VU-NITK-DAVV	3					
15.	Centrifuge (swinging bucket, 15 ml, 50 ml, and plate) VU-DAVV	2					
16.	Probe Sonicator - NITK	1					
17.	ELISA Plate Reader - BU	1					
18.	Small Environmental Chamber (Plant/Cell Growth) - BU	1					

19.	*Biosafety Spill & Decontamination Kit - BU*	1					
20.	Cooled mini centrifuge - VU-NITK-DAVV	3					
21.	Nanodrop spectrophotometer - VU-DAVV	2					
22.	Water purification system - VU-NITK-DAVV	3					
23.	UV Transilluminator - White light - DAVV	1					
24.	Hot air Oven - DAVV	1					
25.	Vortex Mixer - DAVV	2					
26.	Rocker - DAVV	1					
27.	Icematic Machine - DAVV	1					
28.	Gradient - PCR - DAVV	1					
29.	Microwave oven - DAVV	1					
B.	**Description of Accessory Equipment for Cell and Molecular Biology Laboratory**						
1.	Pipette sets - BU-VU-NITK-DAVV	4					
2.	Multi-channel pippets - BU	1					
3.	Hot plates and stirrer -BU-VU-NITK-DAVV	4					
4.	Precision weighing balance BU-VU-NITK-DAVV	4					
5.	Cryobox Storage System (Racks + Boxes) BU	1					
6.	Weighing balance - VU-DAVV	2					
7.	37 degree plate incubator - BU-NITK	2					
8.	Shaker incubator - VU-DAVV	2					
9.	pH meter BU - VU-NITK-DAVV	4					
10.	Dry heat bath BU-VU-DAVV	3					
11.	Digital Vortex Mixer - BU	1					
12.	SDS-Page unit - VU-DAVV	2					
13.	Benchtop Magnetic Pellet Mixer - BU	1					
14.	Agarose Gel unit - VU-DAVV	2					
15.	Power pack -VU-BU-DAVV	3					
16.	Transfer apparatus for Western BU-VU-DAVV	3					
17.	Autoclave BU-VU-NITK-DAVV	4					
18.	Vacuum Pump - NITK	1					

Sl No.	Other Terms & Conditions		Compliance Yes/No
1.	**Payment terms**	Please refer Section-I Point-4	
2.	**Delivery Period**	Within **10 weeks** from the date of Purchase/GeM Contract Order and also refer Section-I Point-22 (d)	
	Delivery location	As per mentioned below schedule of item, location and contact detail. As Annexure "B"	
3.	**Installation**	Please refer to Section-I Point-22 (e)	
4.	**Warranty**	Onsite **03 years** warranty from the date of successful Installation, commissioning, testing and training, **05 years** Warranty for Compressor and also refer Section-I Point-22 (g)	
5.	**Annual Maintenance Contract**	Onsite AMC for **two (02) years** after expiry of the warranty period, commencing from the date of completion of the warranty and also refer Section-I Point-22 (i)	
6.	**Charges**	Freight, unloading, insurance, delivery and any other kind of charges will be borne by the vendor/firm/supplier.	
7.	**Service Support**	Bidder should provide onsite service support.	
8.	**Training**	Onsite training should be provided by the firm free of cost by the expert engineer	
9.	Photographs and catalogues related to material/items should be enclosed in the technical bid and Dimensions of material/item, weight and space requirements should also be submitted in technical offer.		

Annexture "B"

Name of the item	UserId	Name	Address	State	City	Zip
Tissue Culture/Cell and Molecular Biology Lab Facility (Equipment's)	hamendrasingh999@yahoo.com	Dr. Hamendra Singh Parmar	**-DAVV** Devi Ahilya Vishwavidyalaya	MP	Indore	452001
Tissue Culture/Cell and Molecular Biology Lab Facility (Equipment's)	kdresearch@rediffmail.com / dswvvujain@gmail.com	Dr. Kamlesh Dashora / Dr. Alka Vyas	**VU-** Vikram University, Ujjain	MP	Ujjain	456010
Tissue Culture/Cell and Molecular Biology Lab Facility (Equipment's)	lavkush@bujhansi.ac.in	Lavkush Dwivedi	**BU-** Bundelkhand University, Jhansi	MP	Jhansi	284128
Tissue Culture/Cell and Molecular Biology Lab Facility (Equipment's)	kuldeepkumar@nitkkr.ac.in / amilanjosenit@nitkkr.ac.in	Dr. Amilan Jose.D & Dr. Kuldeep Kumar	**NIT-** National Institute of Technology, Kurukshetra	HR	Kurukshetra	136119

प्रपत्र -1 / FORM-I

निर्माता का अनुज्ञा और वारंटी समर्थन पत्र

MANUFACTURER'S AUTHORIZATION & WARRANTY SUPPORT DECLARATION
(ON OEMs Letter head)

Date: _____

Tender No / GeM bid no: **IITI(MM)/BSBE/147/PRJ/HJ/2025-2026**

To,
The Registrar
Indian Institute of Technology Indore

We,_____ [name of Manufacturer], who are official manufacturers of [Insert type of goods manufactured] having factories at [insert full address of Manufacturer's factories], do hereby authorize [insert complete name of Bidder] to submit a bid the purpose of which is to provide the following goods, manufactured by us [insert name and or brief description of the goods], and to subsequently negotiate and sign the contract.

We hereby extend our full guarantee, warranty, availability of spare parts and AMC support in accordance with the Terms and Conditions of Contract with respect to the Goods offered by the above firm.

Authorized representative of the Manufacturer	Authorized representative Bidder
Signature:	Signature:
Name:	Name:
Address:	Address:
Mobile No:	Mobile No:
Email ID:	Email ID:

प्रपत्र -2 / FORM-II

स्थानीय सामग्री के लिए घोषणा

Declaration of Local content

(To be given on Company Letter Head - For tender value below Rs.10 Crores)
(To be given by Statutory Auditor/Cost Auditor/Cost Accountant/CA for tender value above Rs.10 Crores)

Date: _____

To,
The Registrar
Indian Institute of Technology Indore

Sub: Declaration of Local content

Tender No: _____

Name of Goods & Services: -
_____

1. Country of Origin of Goods being offered: _____

2. We hereby declare that items offered has ____% local content **(Please provide exact %)**.

3. Details of location at which local value addition will be made / made: (Complete address to be mentioned)
_____
_____

"Local Content" means the amount of value added in India which shall, be the total value of the item being offered minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

"*False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law."

Yours Faithfully,

_____
(Signature of the Tenderer/Owner)
Name:
Date:
Official Seal

प्रपत्र -3 / FORM-III

डीपीआईआईटी पंजीकरण के लिए घोषणा पत्र

Declaration for DPIIT Registration (on OEM's Letter Head)

CERTIFICATE BY BIDDER- DPIIT REGISTRATION

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, / if from such a county, has been registered with the Competent Authority (copy of the Registration Certificate enclosed).

I hereby certify that his bidder fulfils all requirements in this regard and is eligible to be considered.

_____

(Signature of the Tenderer/Owner)
Name:
Date:
Official Seal

प्रपत्र -4 / FORM-IV

स्वच्छ छवि/कोई कानूनी कार्रवाई नहीं होने के संबंध में घोषणा पत्र

DECLARATION REGARDING CLEAN TRACK/NO LEGAL ACTION

(to be provided on letter head of the firm)

I hereby certify that the above firm namely _____ is neither blacklisted by any Central/State Government/Public Undertaking/Institute nor any criminal case registered / pending against the firm or its owner/ partners anywhere in India preceding three years from the date of publishing of tender.

I also certify that the above information is true and correct in any every respect and in any case at a later date it is found that any details provided above are incorrect, any contract given to the above firm may be summarily terminated and the firm blacklisted.

Date:

Authorized Signatory

Name:

Place:

Designation:

Contact No.:

प्रपत्र -5 / FORM-V

बोलीदाता सूचना प्रपत्र

BIDDER INFORMATION FORM

Sl		Details
1	Company Name	
2	Registration Number	
3	Manufacturer /Distributor for the quoted product	
4	Registered Address	
5	Name of Partners /Director	
6	City /Postal Code	
7	Company's Establishment Year	
8	Company's Legal Status (tick on appropriate option)	1) Limited Company 2) Undertaking 3) Joint Venture 4) Partnership 5) Others (In case of Others please specify)
9	Company Category	1) Micro Unit as per MSME 2) Small Unit as per MSME 3) Medium Unit as per MSME 4) Ancillary Unit 5) SSI 6) Others (In case of Others please specify)
10	Contact Name Email Id MOBILE NO.	
11	**BANK DETAILS**	Name of Beneficiary : A/c. No. CC/CD/SB/OD: Name of Bank : IFSC NO. (Bank) : Branch Address and Branch Code:
12	Vendor's PAN No. (Should be attached)	
13	Vendor's GST No. (Should be attached)	

प्रपत्र -6 / FORM-VI

पिछली आपूर्ति आदेश सूची प्रारूप

PREVIOUS SUPPLY ORDER LIST FORMAT

Order placed by *{Full address of Purchaser]*	Order No. and Date	Description and quantity of ordered equipment	Value of order	Contact Person along with Telephone no., Fax no. and e-mail address.

Note: The Evaluation Committee may seek additional information from the existing users at IIT Indore or from any other Institutes, these feedbacks will be considered for technical evaluation.

_____

(Signature of the Tenderer/Owner)
Name:
Date:
Official Seal

प्रपत्र -7 / FORM-VII

निविदा शर्तों की स्वीकृति हेतु
ACCEPTANCE OF TENDER TERMS

(To be given on Company Letter Head)

Date: _____

To,
The Registrar
Indian Institute of Technology Indore

Sub: Acceptance of Terms & Conditions of Tender IITI(MM)/BSBE/147/PRJ/HJ/2025-2026

Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely: _____as per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein and I have no objection for any of the content of the bid document. The rates quoted by me/us are valid and binding on me/us for acceptance till the validity of bid.

3. I / We hereby unconditionally accept the tender conditions of above-mentioned tender document(s) / corrigendum(s) in its totality / entirety.

4. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.

5. I / We do hereby declare that we have quoted our firm rates inclusive of taxes if not mentioned extra.

6. I/We agree to hold this offer open until **180 days** and shall be bound to supply/commission/install/test the equipment and dispatch the same within the specified period.

7. **I/We agree that in case if we fail to deliver the goods/complete the work/supply within the stipulated time, then institute has full power to compound the liquidity damages or forfeit the Bid Security/Security Deposit or any necessary action as deemed fit can be taken by the IIT Indore.**

8. The articles shall be of the best quality and of the kind as per the requirement of the institution. The decision of the IIT Indore, India (herein after called the said officer) as regard to the quality and kind of article shall be final and binding on me. Should the said officer deem it necessary to change any article on being found of inferior quality, it shall be replaced by me/us free of cost in time to prevent inconvenience.

9. I/We declare that no legal/financial irregularities are pending against the proprietor/partner of the biding firm or manufacturer.

10. I/We undertake that the items supplied are as per Demonstration/Catalogue/technical literature description.

11. I/We undertake that the quoted rates are not higher than that approved in any other Govt. institutions in India for the same items during the current Financial Year.

12. I/we do hereby confirm that the prices/rates quoted are fixed and are at par with the prices quoted by me/us to any other Govt. of State/Central//Institute/Department/PSUs. I/we also offer to supply the Equipment/stores at the prices and rates not exceeding those mentioned in the price bid.

13. I/We do hereby confirm that I/we aware about the provisions of "Make in India"/startup initiatives and directives regarding Price Preference Policy to Make in India Registered Bidders and I/We undertake for following the same as per directions of IIT Indore in respect of this E-Bid Enquiry.

14. I/we have necessary infrastructure for the maintenance of the equipment and will provide all accessories/spares as and when required.

15. I/we also declare that in case of change of Indian Agent or for any other change. Merger, dissolution solvency etc. in the organization of our foreign principles, we would take care of the Guarantee/Warranty/Maintenance of the machinery/equipment and have provided written confirmation for the same.

16. I/we undertake to get the equipment repaired/replace within 48 hours of the receiving of the complaint from the institute failing which a penalty of @ 1% of the cost may be recovered from the Bank Guarantee before releasing the same to us after completion period.

17. I/we undertake, If as a result of post payment audit any over payment is deducted in respect of any Supply/work done by our Agency or alleged to have been done by our Agency under this bid, it shall be recovered by the IIT Indore from our Agency.

18. I/we undertake, If any under payment is discovered, the amount shall be duly paid to our Agency by the IIT Indore.

19. I/we undertake that we shall liable to provide all the relevant records copies during the concurrency period of Contract or otherwise even after the Contract is over, whenever required by IIT Indore.

Yours Faithfully,

_____

(Signature of the Tenderer/Owner)
Name:
Date:
Official Seal

प्रपत्र -8 / FORM-VIII

वार्षिक कारोबार की घोषणा और

इनकम टैक्स रिटर्न

DECLARATION OF ANNUAL TURNOVER AND INCOME TAX RETURN

(To be submitted on Firm/Company Letterhead)

To,
The Registrar
Indian Institute of Technology Indore

Date :

Sub: NIT No.- IITI(MM)/BSBE/147/PRJ/HJ/2025-2026

Dear Sir,

I/we hereby declare that, our firm's Annual Turnover as follows, and I/we have also supported an Audited Accounts for your references:

F.Y. 2022-23	F.Y. 2023-24	F.Y. 2024-25

And, I/we hereby declare that, our firm had filed Income Tax Returns for last 3 years i.e. F.Y. 2022-23, 2023-24 and 2024-25. Supported by copy of ITR of three years.

_____

(Signature of the Tenderer/Owner)
Name:
Date:
Official Seal

प्रपत्र -9 / FORM-IX

प्रश्न प्रारूप/ QUERY FORMAT

Name of the Firm:_____

Contact Person:_____

Address: _____

Email ID:_____

Contact No.:_____

Sl. No	Reference of the Clause No. of the Tender Document	Query/Clarification/ Deviation sought	Clarification/Response from IIT Indore
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

प्रपत्र -10 / FORM-X

परफॉरमेंस सिक्योरिटी प्रारूप

PERFORMANCE SECURITY FORMAT

To,

.....

WHEREAS ..... (name and address of the supplier) (hereinafter called "the supplier") has undertaken, in pursuance of contract no. ..... Dated .....to supply (description of goods and services) (hereinafter called "the contract").

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee:

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of ..... (amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We further undertake to pay the Purchaser any money so demanded notwithstanding any dispute or disputes raised by the supplier(s)/vendor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the supplier(s)/vendor(s) shall have no claim against us for making such payment.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the ..... day of ....., 20.....

(Signature of the authorized officer of the Bank)

Name and designation of the officer
Seal:
Name & address of the Bank
Address of the Branch:
Phone No.:
E-mail ID:.

प्रपत्र -11 / FORM-XI

Format for Price Breakup/Financial Document

for

Supply, Installation and Commissioning of Tissue Culture/Cell and Molecular Biology Lab Facility

Name of the Bidder/ Bidding Firm / Company: _____

Sl. No.	Item	Qty.	Unit Price in INR (₹)	GST in INR (₹)	Total Price in INR (₹)
a)	Supply, Installation and Commissioning of **Tissue Culture/Cell and Molecular Biology Lab Facility**	04 No.			

Sr. No.	Item Description	Qty	Unit Price in INR (₹)	GST in INR (₹)	Total Price in INR (₹)
A.	**Description of Cell and Molecular Biology Laboratory Equipment**				
1.	BSL-2 Biosafety Hood - VU - NITK-DAVV	3			
2.	Western Blot Transfer System (Protein Blotting) -BU	1			
3.	Southern/Northern Blot System (DNA/RNA Blotting) - BU	1			
4.	Benchtop Fermentor 3-5lit (BU)	1			
5.	CO_2 incubator - VU-NITK-DAVV	3			
6.	Inverted microscope for cell visualization (VU-NITK-DAVV)	3			
7.	4 degree Refrigrator - NITK	1			
8.	Automated Glassware Washer (BU)	1			
9.	Deep Freezer -20 degree refrigerator - VU-DAVV	2			
10.	Deep Freezer -80 degree refrigerator - BU -VU-NITK-DAVV	4			
11.	Laboratory Homogenizer / Tissue Grinder - BU	1			
12.	LN_2 Cryogenic Storage Dewar (with racks) BU	1			
13.	Cooled Incubator - BU	1			
14.	Waterbath - VU-NITK-DAVV	3			
15.	Centrifuge (swinging bucket, 15 ml, 50 ml, and plate) VU-DAVV	2			
16.	Probe Sonicator - NITK	1			
17.	ELISA Plate Reader - BU	1			
18.	Small Environmental Chamber (Plant/Cell Growth) - BU	1			
19.	*Biosafety Spill & Decontamination Kit - BU*	1			
20.	Cooled mini centrifuge - VU-NITK-DAVV	3			
21.	Nanodrop spectrophotometer - VU-DAVV	2			
22.	Water purification system - VU-NITK-DAVV	3			
23.	UV Transilluminator - White light - DAVV	1			
24.	Hot air Oven - DAVV	1			
25.	Vortex Mixer - DAVV	2			
26.	Rocker - DAVV	1			

27.	Icematic Machine - DAVV	1			
28.	Gradient - PCR - DAVV	1			
29.	Microwave oven - DAVV	1			
B.	**Description of Accessory Equipment for Cell and Molecular Biology Laboratory**				
1.	Pipette sets - BU-VU-NITK-DAVV	4			
2.	Multi-channel pippets - BU	1			
3.	Hot plates and stirrer -BU-VU-NITK-DAVV	4			
4.	Precision weighing balance BU-VU-NITK-DAVV	4			
5.	Cryobox Storage System (Racks + Boxes) BU	1			
6.	Weighing balance - VU-DAVV	2			
7.	37 degree plate incubator - BU-NITK	2			
8.	Shaker incubator - VU-DAVV	2			
9.	pH meter BU - VU-NITK-DAVV	4			
10.	Dry heat bath BU-VU-DAVV	3			
11.	Digital Vortex Mixer - BU	1			
12.	SDS-Page unit - VU-DAVV	2			
13.	Benchtop Magnetic Pellet Mixer - BU	1			
14.	Agarose Gel unit - VU-DAVV	2			
15.	Power pack -VU-BU-DAVV	3			
16.	Transfer apparatus for Western BU-VU-DAVV	3			
17.	Autoclave BU-VU-NITK-DAVV	4			
18.	Vacuum Pump - NITK	1			

Note:

1. All Terms & Conditions will be as per NIT Document uploaded on GeM.
2. *Format for Price Breakup (FORM-XI) must be uploaded at the time of Price bid submission.*

_____

(Signature of the Tenderer/Owner)
Name:
Date:
Official Seal

प्रपत्र -12 / FORM-XII

बिक्री और समर्थन के संबंध में घोषणा

DECLARATION REGARDING SALES AND SUPPORT

(to be provided on letter head of the firm)

To,
The Registrar
Indian Institute of Technology Indore

We, M/s._____ hereby affirm that the engineers listed below are currently employed by our organization and have consistently provided service and support in their region. We attest to their professional competence, dedication, and commitment to delivering high-quality work.

Sl. No.	Name	E-mail Id	Contact No.
1	Mr.		
2	Mr.		
3	Mr.		

We, M/s._____ declare that we as original equipment manufacturers (OEMs) shall not be subjected to end of sale or end of support within the next five years from the date of submission of this declaration. This commitment aims to ensure the continuity and reliability of products and services provided by us, fostering stability and trust

We also certify that the above information is true and correct in every respect and in any case at a later date it is found that any details provided above are incorrect, any contract given to the above firm may be summarily terminated and the firm blacklisted.

_____
(Signature of the Tenderer/Owner)
Name:
Date:
Official Seal

प्रपत्र -13 / FORM-XIII

PRICE REASONABILITY CERTIFICATE

(To be submitted on Firm/Company Letterhead)

1. I/We _____ hereby certify that the prices quoted by us in our offer letter No.....are not higher than prices to any Government Department/PSU/Institution.

2. I/We further certify that I/We have not supplied or quoted for any item in offer letter at prices lower than those quoted for the relevant items to any Government/Semi-Government/ Public/Institution within the period of 90 days preceding the last date of submission of the offer.

3. I/We hereby undertake that I/We will not supply or quote for any item in offer letter at prices lower than those quoted for the relevant items to any Government/Semi-Government/ Public/ Institution/ within the period of validity of the offer.

4. I/We also undertake to bring the attention of the Authorities, any incidence of breach of any of the above paras within 30 days from the occurrence of the breach and further undertake to refund/reimburse the difference which may arise due to breach of any of the above paras and I/We also understand that the decision of Authorities, regards to the determination of quantum payable shall be final.

_____

(Signature of the Tenderer/Owner)
Name:
Date:
Official Seal

प्रपत्र -14 / FORM-XIV

(To be submitted on Firm/Company Letterhead)

UNDERTAKING

I/We hereby declared that all the Test Reports compliances as per Standard Specifications mentioned in the NIT Document No: _____ **for "Supply & Installation of** _____" will be submitted by us, if required/asked.

Further, we will provide all Statuary valid Certificates/Permissions/License/Hardware/Software as required for smooth running of the supplied EQUIPMENT including all essential requirements for installation etc..

Furthermore, I/We hereby declare that, our quoted prices against this E-Bid Enquiry are not higher then prices offered by us to any others Govt. Institutions/Other Institutions/Departments as per prevailing market prices and we are liable for passing of all the benefits of GST in terms of cost reduction on account of various tax factors to IIT Indore as per the provisions of GST Act 2017. If any time IIT Indore will get the information that we have supplied items on higher prices in comparison to other institutes on the basis of prevailing applicable prices, we are undertaking that, we are liable for refunding and depositing back such difference amount to IIT Indore from our side without any question.

I/We are also undertaken that the Department of Commerce or Ministry/any other Department has been not debarred/blacklisted our firm as per best of our knowledge, if any such debarment/blacklisting come to the notice of IIT Indore Authorities during execution of Supplies against this E-Bid Enquiry, Indore have right to reject our proposal and take appropriate action deemed fit against our firm as per prevailing applicable Rules & Regulations.

_____

(Signature of the Tenderer/Owner)

Name:

Date:

Official Seal

प्रपत्र -15 / FORM-XV

(To be printed on Supplier's letterhead)

(To be signed by the bidder and same signatory competent / authorized to sign the relevant contract on behalf of IIT Indore)

INTEGRITY AGREEMENT

This Integrity Agreement is made at ..... on this ..... day of..... 20.....

BETWEEN

The IIT Indore, represented through Jt. Registrar Material Management, IIT Indore ....., (Hereinafter referred as the 'Principal/Owner', (Address of Division) 'Principal/Owner', which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

Name and Address of the Individual/firm/Company) through .... (Hereinafter referred (Details of duly authorized signatory) to as the "Bidder/Contractor" and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

Preamble

WHEREAS the Principal / Owner has floated the Tender (NIT No.....) (hereinafter referred to as "Tender/Bid") and intends to award, under laid down organizational procedure, contract for .....at IIT Indore." (Name of work) hereinafter referred to as the "Contract". AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s).AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as "Integrity Pact" or "Pact"), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:

Article 1: Commitment of the Principal / Owner

1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles

No employee of the Principal / Owner, personally or through any of his / her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

(a) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.

(b) The Principal/Owner shall Endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.

2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PoC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

3) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PoC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article 2: Commitment of the Bidder(s) / Contractor(s)

1) It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of fraud or corruption or coercion or collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
2) The Bidder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
   a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
   b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.
   c) The Bidder(s) / Contractor(s) will not commit any offence under the relevant IPC/PoC Act. Further the Bidder(s) / Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal / Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
   d) The Bidder(s) / Contractor(s) of foreign origin shall disclose the names and addresses of agents / representatives in India, if any. Similarly Bidder(s) / Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
3) The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
4) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practices means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.
5) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal /Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

1) If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days' notice to the contractor shall have powers to disqualify the

Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. Such exclusion may be forever or for a limited period as decided by the Principal/Owner.

2) Forfeiture of EMD/Performance Guarantee/Security Deposit: If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.
3) Criminal Liability: If the Principal/Owner obtains knowledge of conduct a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal / Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.
3) If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors

1) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub-contractors/sub-vendors.
2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
3) The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6: Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 6 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority of IIT Indore.

Article 7: Other Provisions

1) This Pact is subject to Indian Law, place of performance and jurisdiction is the Head Quarters of the Division of the Principal/Owner, who has floated the Tender.
2) Changes and supplements need to be made in writing. Side agreements have not been made.
3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by Board Resolution.
4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intensions.
5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.

Article 8: Legal and Prior Rights

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

BUYER

.....

Assistant Registrar (R&D MMS), IIT INDORE
Date & Place:

WITNESSES:

1. ..... **(Indenter)**
(Signature, name and address)

2. .....
(Signature, name and address)

.....

BIDDER Signature with Seal
Date & Place:

WITNESSES:

1. .....
(Signature, name and address)

2. .....
(Signature, name and address)