IIM Lucknow Enterprise Incubation Centre

Plot no. B-1, Sector -62 Institutional Area, Noida-201307, U.P

TENDER NO. IIMLEIC/Tender for Procurement and Implementation of Micro Data Centre Solution (Supply, Installation and Support)/014/2025-26

NOTICE INVITING TENDER FOR THE PROCUREMENT AND IMPLEMENTATION OF MICRO DATA CENTRE SOLUTION (SUPPLY, INSTALLATION AND SUPPORT

IIMLEIC Enterprise Incubation Centre is a not-for-profit organization and is established with an objective to nurture high-performance start-ups, especially in the fields of Big Data Analytics, Artificial Intelligence, Block chain Technology, Industrial IoT, Digital Healthcare, Cloud Services, Virtual Reality, and 3D Printing inviting tender from a reputed agency which is well versed in the field of creation of Procurement and Implementation of Micro Data Centre Solution (Supply , Installation and Support)

Last date and time for submission of tender	25/03/26 at 1700 hrs
Venue for opening of Technical and Financial bids	Chief Operating Officer, IIMLEIC, B-1, Sector-62 Noida–201301 (U.P.)
Earnest Money Deposit (EMD)	Demand Drafts of Rs.10,000/- (Rupees Ten thousand only) towards EMD drawn on any scheduled bank in favor of **"IIM Lucknow Enterprise Incubation Centre"** payable at **"Noida".**
Date of opening of financial bids will be intimated to the eligible vendors later on.	

Note: The EMD will be converted to security deposit for the selected bidder and will be retained till the validity of the contract.

Please go through the complete tender document. Bids complete in all respects should reach the IIMLEIC on or before the due date & time. Bids received after the due date and time is liable to be rejected.

IIM Lucknow Enterprise Incubation Centre reserves the right to accept or reject any or all tenders received at its absolute discretion without assigning any reason whatsoever.

Yours sincerely

Arunodaya Bajpai
(Chief Operating Officer, IIML-EIC)

PART-

A: ELIGIBILITY CRITERIA:

Only those firms/Proprietary Firms/Partnership Firms/Agencies which fulfill the following minimum criteria need to submit their bids along with necessary documents. Those firms who do not meet the minimum eligibility criteria and not submitting the required document will be disqualified on technical grounds.

1. The Firm/agency should have PAN, GST Registration, Office in Installation State/Location (Proof in this regard must be attached with the bid).
2. The Firm/agency should have a minimum of Three (3) years of working experience in the same kind of work as a reputed organization after registration. Out of three (3) years of working experience, the firm/Agency should have experience in Govt. Departments OR Autonomous Organization or Corporate or Section 8 companies. The Firm/agency should not have been blacklisted/debarred by Government Organization. Undertaking in this regard is to be furnished.
3. Bidders must have minimum average annual financial turnover of Rs. 10 Cr during the previous three years ending 31.03.2025 i.e. 2022-23, 2023-24 and 2024-25 duly certified by Chartered Accountant should be submitted.
4. The Bidding Firm should possess the experience of successfully handling SITC of Server/Storage.
5. The bidding firm will provide valid Bid Specific OEM authorization certificates for the sale or distribution of the product.
6. The bidding firm will provide Technical compliance on OEM Letter Head for Proposed solution and products.
7. The details regarding the provision of support during the warranty

The tender shall be accompanied by the following documents:

- Copy of certificate of work experience and other documents as specified shall be deposited in a **sealed Envelope 1** marked as **" Technical Bid".**

- Bill of quantities and other relevant commercial information(tender) duly filled and compiled with rates, amounts, totals and signed by authorized signatory shall be placed separately in a **sealed Envelope 2**. Envelope 2 shall be super scribed as "**Financial Bid**" and opened only after tenderer's eligibility to participate in the tender is successfully established and accepted by IIMLEIC.

All the envelopes shall be placed in a **large, sealed envelope** marked as "Tender for Procurement and Implementation of Micro Data Centre Solution (Supply , Installation and Support)
". The large sealed envelope shall be submitted to the Chief Operating Officer of IIMLEIC up to 05:00 PM on 25.03.2026.

B: SELECTION PROCESS: -

Tenders' documents submitted without proper information, without documentary evidence, without submission of EMD/inadequate EMD shall be summarily rejected.

The Organization/Firm/Agency having qualified in all the points of eligibility criteria and fulfilling all the relevant details of Annexure–I & II and annexure-III" and quoting BEST RATE in totality, will be treated as a successful bidder.

In case two or more organizations/Firms/agencies are quoting the same rate, in that situation the firm having the highest work experience in government office/PSU/State Government/Universities/IIM/IIT/NIT/Corporate/Section 8 Companies will be treated as a successful bidder.

C. EARNEST MONEY DEPOSIT:

Demand Drafts of Rs.10,000/- (Rupees Ten thousand only) towards EMD drawn on any scheduled bank in favor of **"IIM Lucknow Enterprise Incubation Centre"** payable at **"Noida".**

D. GENERAL TERMS & CONDITIONS

GENERAL RULES AND DIRECTIONS:

1. Any person who submits a tender shall fill up the rates in the BOQ. Tenders, which propose any alteration in the Work specified in the Schedule of Quantities or in the time allowed for executing the Work or which contain any other conditions of any nature, including conditional rebates, shall be liable to be summarily rejected.

2. Being an Item Rate Tender, only rates quoted shall be considered. Rates quoted by the vendor in item rate tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words.

3. The IIMLEIC shall have the right of rejecting all or any of the tenders and shall not be bound to accept the lowest or any other tender.

4. In the case of any tender where unit rate of any item/items appear unrealistic, such tender shall be considered as unbalanced and in case the tenderer is unable to provide satisfactory explanation, such a tender shall be liable to be disqualified and rejected.

5. Upon acceptance of the tender, the name of the accredited representative(s) of the tenderer, responsible for taking instructions from the IIMLEIC.

6. GST or any other tax applicable in respect of the supply shall be payable by the Vendor and IIMLEIC shall not entertain any claim whatsoever in respect of the same.

E. GUIDELINES FOR BIDDERS

1. The Bidder/Tenderer should address their complete bids in all respect in a sealed envelope to the Head Operations, IIMLEIC Noida Campus B-1, Institutional Area, Sector-62 Noida 201307 UP.

2. The bidder/Tenderer shall not tamper/modify the tender form including the downloaded price bid template in any manner. In case if the same is found to be tampered with/modified in any manner, the tender will be completely rejected and EMD would be forfeited.

3. The complete bidding document shall remain valid for 60 days (Sixty Days) after the date of bid opening. The bid valid for a shorter period shall be rejected by the IIMEIC as non- responsive. In exceptional circumstances, the IIMLEIC may request the consent of the bidder for an extension to the period of bid validity. A bidder accepting the request and granting an extension will not be permitted to modify his bid.

4. This bidding document should be duly signed and stamped by the authorized person agencies/firms/Dealer on each page as proof to confirm the acceptance of the entire Terms & Conditions of Tender. Tender with Conditional offer/offers which are not in conformity to the prescribed document will be summarily rejected.

5. The rates should be mentioned in figures as well as in words. (Erasing/overwriting should be avoided/duly attested by the tenderer.) Taxes, however, should be indicated separately. In case, nothing is mentioned, it will be assumed that all taxes are included in the rates quoted.

6. At any stage, if it is found that the documents and certificates submitted by the bidder/tenderer agencies/firms/Dealer are found forged or have been manipulated, the supply shall be canceled. Further, the IIMLEIC can also take action as appropriate under the extant laws.

7. The submission of tender will bind the tenderer to acceptance of all the Terms & Conditions specified herein and in addition to the conditions of the contract. If the bidder withdraws his bid during the period of bid validity, the EMD shall be forfeited and the firm may be blacklisted.

8. IIMLEIC will not provide any Manpower or any Tools, Vehicle, Cartage to perform the contract. The contractor has to bear it at his own cost.

9. The vendor will be fully responsible for the complete safety norms of his Engineers/workers/staff during the performance of their duty in the IIMLEIC. In case of any mishap/accident, the contractor will take full responsibility relating to pay compensation/medical care to his Engineers/workers/staff.

10. Since the supply/jobs are specialized in nature, the Vendor/contractor should deploy the skilled/duly trained/qualified Engineer/technician. In case any un- skilled found the contract shall deem the canceled.

11. If the bidder/tenderer fails to supply the products within 07 days of receipt of the letter of acceptance or extended period by IIML-EIC, the supply shall be withdrawn and EMD deposit will be forfeited

F. PAYMENT TERMS: -

a. Payment will be made two tranches First 50% will be made after the successful supply of

the material or Product. And Second 50% will be made after completion of work.

b. Bill to be made in the name of IIM Lucknow Enterprise Incubation Centre.

G. CONCILIATION/ARBITRATION/APPLICABLE LAW & JURISDICTION:

1. If any dispute(s) or difference(s) of any kind whatsoever arising between the parties, the parties hereto shall negotiate with a view to its amicable resolution & settlement through a Committee appointed by IIMLEIC.

2. In the event no amicable resolution or settlement is reached between the parties within 30 days after receipt of notice by one party, then the disputes or differences as detailed above shall be referred to & settled by IIMLEIC.

3. All matters connected with this Tender document shall be governed by the Indian Law both substantive & procedural for the time being in force & shall be subject to the exclusive jurisdiction in Noida (UP).

I have read all the terms and conditions of this document. I hereby accept all the mentioned Terms & Conditions of the above contract of IIMLEIC Noida Campus.

Date: (Signature of the Bidder, with Official Seal)

(ON LETTERHEAD OF THE BIDDER) UNDERTAKING

Tender No. IIMLEIC/Tender for Procurement and Implementation of Micro Data Centre Solution (Supply , Installation and Support)/014/2025-26

Date:18/03/2026

Technical Bid

ANNEXURE- "I"

Sr.No.	PARTICULARS	DETAILS TO BE FILLED BY THE ORGANISATION/FIRM/AGENCY
1.	Name of the Organization /Firm/Agency	
2.	Address of the Organization /Firm/Agency	
3.	Name of the Managing Director/ Director/ Owner/Proprietor (authorize a person who signs this tender document). E-mail address Phone No/Mobile No.	
4.	GST No. of the Organization/Firm/ Agency. (Attach a photocopy).	
5.	PAN No of the Organization/ Firm/ Agency. (Attach a photocopy).	
6	Total Work Experience (in months) in relevant filed as on (31st March 2025).	
7.	Does the firm have prior work experience minimum of Three (3) years as on (31st March 2025) in the business of IT Infrastructure/Server and Storage.	
8.	Does the firm have at least three-year work experience in government office/PSU/Corporate Offices/Sector 8 companies.	

9.	**Please attach work completion report along with Work Orders.**	
10.	Does your firm have ever been Blacklisted? (if NO) Attach certificate (Self-declaration) on company letterhead, as per **Annexure-III**.	

List of corporate

11.	**Description**	**Financial Years**		
		2022-23	**2023-24**	**2024-25**
	Gross Annual Turnover (attached Audited Balance Sheet)			

Place: (Signature of the Contractor or His authorized signatory)

Date: (Name with Official Seal/Stamp)

(ON LETTERHEAD OF THE BIDDER) UNDERTAKING

Tender for Procurement and Implementation of Micro Data Centre Solution (Supply, Installation and Support)/014/2025-26

Date :18/03/2026

ANNEXURE- "II"
FINANCIAL DETAILS

1) Technical Specification for Smart Rack Infrastructure

Single Rack Smart Solution for Data Centre to support 7kW IT Load with N+N Redundancy:

1. Introduction

This proposal outlines a complete Data Center Infrastructure Solution including Smart Rack Enclosure, Power Backup System, Enterprise Servers, and Storage Systems designed to deliver high availability, reliability, and efficient IT operations for modern IT workloads such as virtualization, databases, AI/ML applications, and enterprise software.

The proposed solution ensures optimized power management, environmental monitoring, secure rack infrastructure, and high-performance computing and storage to support enterprise workloads and mission-critical applications.

Our objective is to deliver a robust, energy-efficient, and scalable data center environment that ensures high availability and seamless business operations.

2. **Scope of Solution**

2.1 Smart Rack Enclosure

The **Smart Rack Enclosure** provides a secure and intelligent infrastructure for housing critical IT equipment such as servers, storage devices, and networking components.

Components

- Smart Rack Cabinet (42U) with Accessories
- Intelligent Rack PDU's
- Environmental Sensors (Temperature, Humidity, Smoke, Leakage, Door Sensors etc..)
- Environmental Monitoring System
- Cooling System (N+N)
- Rack Based Fire Detection & Extinguishing System
- Rack Door Access Control System
- Power Distribution Boards & Cabling Works
- Rack Mountable UPS with External Battery Bank & ATS.

Features

- Real-time rack monitoring
- Power usage monitoring
- Temperature & humidity alerts
- Remote management capability
- Secure enclosure with access control
- Structured cable management

Sl. No.	Specification	Description of Items
1	Single Rack Smart Solution	The Smart Rack should be of minimum 42U to enable maximum utilization of space within the Rack and provide scope for future expansion. Total minimum usable "U" Space requirement is **35U** for mounting IT Hardware. It should be used to mount and house all servers/network/storage devices in the Smart Rack. The Rack must be designed to meet the safety requirements of the modern data center. Both the front and rear door should be designed to give active high performance closed loop cooling system with swing handle & key lock system, cable entry should be entered via the roof plate and via the bottom gland plate without affecting the climatic conditions inside the Rack with **IP54 Ingress Protection**.
1.1	Racks should include following accessories:	• Server / Storage / Network Rack of Size: 800W x 2000H (42U) x 1200D (mm) – 1no • The Rack frame should be made of multi-folded sturdy steel profile structure. Frame profile – CRCA (IS 513), Cladding parts – Mild steel (CRCA) • The rack frame should be of welded frame construction with load bearing capacity of min 1500Kgs. (TUV certified as IEC 61587-1:2022) • 2 pairs of 42U 19" L Type angles at Front & Rear with "U" Marking • Top & Bottom cover with fixed & sliding cable gland plate with foam insert at rear side of the Racks for cable entry. • Base Plinth of 100mm height • Front Door with Toughened Glass of **min 6mm thickness** with door stiffeners, Rear Sheet Steel Double Door with door stiffeners & swing handle. • Vertical High Density Cable Manager with Split Hinged Doors and 4U Cable Loops – 2nos / Rack at Front side for cable management. • Rear Cable Trough on LH & RH side with provision for fixing PDU's • Automatic Door Opening System (For Front Door) with Gas Spring Fixing Arrangement. • Set of Side Panels (2000H x 1200D) - 1 set • Side by Side Baying Kit • Earthing studs to be provided for body earth • Captive Hardware (pack of 50 no's) - 1 pack / Rack • Blanking Panel 1U, ABS Material (Tool Less) - 20nos / Rack • Horizontal Cable Organizer 1U with loops on Front – 2nos / Rack • Copper Earth Rail 12x6x400 with screws and insulators– 1no / Rack • Component shelf 720mm deep – 1no/ Rack • Status Based LED Light – 1no/ Rack • Surface Finish: **Nano Ceramic Pre-treatment with Pure Polyester Powder Coating** with Structured Finish. RAL: 9005 Color shade with minimum 80 microns thickness.

2	Certification and Standards	The OEM should have ISO 9001: 2015, ISO 14001-2015, ISO 45001:2018 certifications to ensure industry best practices are followed and complying to EIA 310 and IEC 297 standards.
3	Door Access Control System via Biometric Reader	• Standalone Biometric Reader cum Controller to open Front Door of each Rack – The installation, testing and commissioning of Reader, Controller with 3nos of **Electro-Mechanical Door locks** per Door, cabling, etc. – 1 Sets/ Rack. • Electro Magnetic (EM) locks should not be used to avoid magnetic interference to IT Equipment's inside the Smart Rack. • The Access Control Reader should be integrated with Environmental Monitoring System for Monitoring & Control. Additional Access Door Controller should be avoided.
4	Precision Air- conditioning System with Redundancy - 7kW (N+N) – 2 Nos	**In-Rack Closed Loop Precision Air Conditioning Module of 7kW Cooling Capacity with N+N Redundancy – 2Nos** The Cooling System (Split Type) should be designed to support "front-to-back" air routing for the 19" installations. DX Type Close Coupled (In-Rack) Air-conditioning system with high CFM & Sensible Cooling Indoor and Outdoor units. Cooling capacity should support an Average Minimum Density per Rack of 7kW & should ensure an energy-efficient dissipation of heat. The cold air distribution shall be lateral, uniform from 1U to 42U in front of the 19" equipment for efficient cooling and there shall be no loss of vertical "U" space inside the 19" Rack while mounting the equipment. The Cooling Unit Modules of 7kW each are to be mounted inside the Cooling Cabinet adjacent to the IT Racks to ensure that there is no loss of additional space in the IT Rack. i.e. each Cooling Cabinet of 400mm wide should be equipped with 2nos of Cooling unit Modules of 7kW each in N+N topology. **In-Rack Precision Air Conditioner should have following Features:** • Cooling System should be DX type with Cooling Capacity System with Fixed Scroll Technology in N+N Topology with R-410A refrigerant. • Compressor should be part of Outdoor Unit with fan speed controller & integrated with Hot Gas Bypass system. • Inbuilt heater. • Cooling Rack Size (Maximum) : 400W x 2000H x 1200D (mm) with 100H Base Plinth, Top Cover with Roxtec module, Bottom cover, Front & Rear Plaint Door with 3-point lock with swing handle, depth rails top & bottom & accessories. • 7kW Cooling Unit Module with 2nos of EC Fans for maximum efficiency and minimum power consumption in each Module supporting a total of 1200CFM. The flow characteristics of the heat exchanger are optimised for the lowest possible pressure losses on the air side. This should minimise the energy consumption of the fans. • Each Cooling Module should have separate control & power module with Sequencing controller. • SS condensate tray with inbuilt Drain Pump for condensate drain. • External ODU unit should house the Compressor, compatible with the

		Environment Friendly R410A refrigerant. The external unit (condenser) should be equipped with Permanent Magnet Electronically Commutated fan motor for stepless variation of fan speed based on ambient temperature so as to ensure that the refrigeration system pressures are balanced during all weather conditions. • Axial Condenser Fan with Fan-speed controllers & electrical panel. • Evaporator Coil should be coated with Hydrophilic Blue Fin Coating • Condenser Coil should be coated with Epoxy (Anti Corrosive Coating) • Surface Finish for Outdoor Units: GI Sheet with Pre-treatment, 1st layer of Primer Powder Coating and 2nd layer with Pure Polyester Powder Coating with Textured Finish. RAL: 9005 Color shade with minimum 80 microns thickness. **Parameters for the PAC units:** a. Supply air temperature: 22 ± 2 deg C b. Maximum return air temperature: 35 deg C c. Ambient temperature: 45 deg C d. Humidity: 40-65 RH **Configuration:** Supply, installation, testing and commissioning of DX Type Air conditioning units designed specifically for high sensible heat ratio with cooling technique to match the low latent loads of systems to be installed in the integrated cabinet for effective and uniform distribution of cooling. It shall be specifically designed for service from the front and rear of the unit. The unit shall be capable to be mounted between the racks or at the end of row. **Compressor:** The compressor shall be of the high efficiency compliant with **Fixed Scroll Compressor**. Each compressor shall have in- built overloads, HP and LP controllers and mounted on vibration isolators. The compressor shall be suitable for operation with R410A refrigerant. The compressor should be placed in outdoor unit to ensure that the vibration from Compressor does not affect the IT Racks over a period and there is less noise and vibration in the Data Centre. **Refrigeration Circuit:** The refrigeration system shall be of the direct expansion type, and each unit must incorporate independent evaporator coil circuit. Thermostatic expansion valve is to be provided, sight glass and filter drier, shut off valves, shall also be provided. **Evaporator Coil (Direct Expansion Type):** The evaporator coil shall be constructed of rifled bore copper tubes and louvered aluminium fins, with the frame and drip tray fabricated from heavy gauge steel. The evaporator coil must be minimum four rows deep to handle high temperatures across the coil ranging from air inlet of 30 Deg C to 37 Deg C and maintain a leaving temperature with delta of minimum 10 Deg C and maximum 15 Deg C, further since the application

		are high sensible loads the evaporator must be designed accordingly. The coil with hydrophilic or varnish coating will be preferred to prevent any water carry if used without sensible loads only as a primary cooling solution. Drip trays are an option bust recommended to be provided as standard option and must be double angled for condensate flow and easily removable for cleaning. The construction of the drip pan must be of stainless steel/aluminium or galvanized steel as per manufacturer's recommendation. The distance between the fins should as per 12 fpi and the face velocity shall not be more than 2.5 m/sec. (Or equivalent as per OEM standard). **Fan and Motor (ELECTRONICALLY COMMUTATED DRIVES):** Fan must be provided with direct drive backward curved fans each running with DC drive electronically communicated motors, the fans should be aligned and balance statically and dynamically. The fan speed must be controlled based on the hot aisle return air Temperatures and must have automatic speed control without manual intervention. Only direct drive fans with electronically commutated motors are acceptable. **Service Area:** The unit shall be serviceable from the front and back via an aisle space of maximum 1 mtr. **Air Filtration:** The units shall be provided with washable synthetic air filters with metal frames which can be removed from the unit and taken out of the server area for cleaning and can be installed back into the unit without requiring any shut down of the unit. Filtration level shall be microvee filters of 90% - 10 microns. Filter clog pressure switch is to be provided to ensure maintenance and upkeep of the equipment and to ensure no reduction in unit capacity resulting from reduced airflow. **Electrical Panel:** Control cabinet to be as per OEM design, with grounding lug, overload relays, circuit breakers and cover interlock, and fusible control circuit transformer or as per OEM standard meeting basic all required safety features mentioned for critical operations. The construction of the unit electrical panel must be such to also provide space for microprocessor controller and without opening of any panels from the front of the unit the microprocessor panel must have direct access for operation. Return air T/H sensor shall be part of standard supply of the unit. The electric panel provided for the unit must be equipped with main incoming power isolation switch, additionally the unit must be provided with under voltage / over voltage / phase reversal / single phasing protection. The electrical panel must also be providing with relay block for common alarm. **Micro Processor Controller:** Each floor Mounted Evaporator unit must be equipped with individual microprocessor controls with individual display and sensors to comply with below specifications. In addition to precise control of temperature and humidity, the system shall

		include the following features: - • Seamless integration into BMS systems. • A liquid crystal graphical display-including unit function via icons, displaying control conditions and trend logging of temperature and humidity conditions. • Ability to adjust fan speed in both cooling and heating modes. • Coded security access for set point parameter adjustment. • Programmable stage delays, to minimize inrush currents. • A Comprehensive alarm system, Alarms shall be memorized and displayed in the order in which they occur to aid fault diagnosis. • Programmed set points and parameters shall be held in a non-volatile memory, therefore being safeguarded upon power failure. • In built Sequencing of all the units. • All the units shall be fitted with the RS485 Serial Card, used to interface the controller to the RS485 network (Modbus Protocol) **Control Type:** The controls shall be a microprocessor programmable logic controller. The controls shall have separate indication of operating modes (cooling, heating and dehumidifying), alarm conditions (temperature high, loss of sensor, compressor HP & LP, wet floor, no air flow). The display and indication shall be visible on the front without removing any external panels. Local and remote alarms will be triggered if an alarm condition is reached. **Alarms:** The alarm should operate with the audible signal. Following alarms should be available: • Loss of Sensor • Compressor High / Low Pressure • Wet floor sensor • No Air flow. • Filter clogs • Temperature high / low • Humidity high / low The control should have an auto-restart feature which will return the unit to normal operation resumption of mains power. The unit controller must have option of dual set point for energy saving i.e. customer must have the option to set two independent set points for the unit based on operational requirements and energy saving concepts. OR as per OEM standards meeting above requirements. **Display:** In normal operating mode the screen should display unit number, temperature and relative humidity set points and actual, operating status. The unit must have a min 7" LCD display on controller with user friendly menus and minimum two-level password protections. RS485 interface port for BMS compatibility with Modbus RTU protocol is required
5	Intelligent Rack Metered Vertical iPDU's – 2nos / Rack	• **32A iPDU's :** Single Phase Vertical iPDU, 24 Outlet: C13-18 Nos, C19-06 Nos, 1.77" LCD display, 2 X 16A HyMag CB, Supported Protocols: HTTP, SNMP v1, Telnet, Modbus TCP, IPV4, Network port - 10/100mbps, 6 Sq mm, 3C, 2-meter power cable with Nema L6-30P

		Industrial plug top. • **UPS O/P DB:** Single Phase 32A PDU, with NEMA Socket - 1 no. & C13 Sockets - 2 nos., with 32A MCB & PG-16 cable gland. Colour: RAL 9005
6	Emergency Exhaust System	The Smart Rack should be equipped with emergency exhaust fans mounted on the rear door of Server / Network Rack to ensure that in case the temperature gets too high, the front door opens, and the exhaust fans start to operate automatically to ensure that the hot air inside the Smart Rack gets exhausted – 2nos / Rear Door of IT Racks.
7	Low Side Works	Low Side Works for Air-Condition System - **15mtrs distance between each indoor & outdoor for each 7kW Cooling Unit.**
8	Electrical Power Distribution System	• Provisioning of structured power distribution system. • The 3-Phase commercial conditioned 440V/50Hz Raw power supply will be provided by user near Smart Rack at the Distribution panel along with required capacity MCB or better. • Raw Power DB: Rack mount Raw Power Distribution Panel with incomer breaker, outgoing breakers for Cooling Units, UPS System, Rodent Repellent, Enclosure Light etc. – 1 set. • Rack Mountable 1U, 16A ATS – 1no • Electrical Low Side Works with Cabling & Termination. • Supply and Installation of Cable Trough of size : 300W x 60H mm with Cover Lid & necessary accessories for fixing. – 16 Mtrs
9	10kVA Rack Mount UPS with External Battery Bank to Support back-up time of 60min at 7kW IT Load with Redundancy (N+N).	• 10kVA/kW UPS should have true online double conversion topology. UPS system should be highly space optimized 19" Rack Mountable (2U). • All systems should have redundant UPS design, which are appropriate when using dual power corded equipment. • The UPS should have built in Modbus / SNMP card for remote monitoring. • External Battery Bank to Support back-up time of 60min at 7kW IT Load. The bidder scope should include Initial installation, testing & commissioning with start-up.
10	Environmental Monitoring System with Alarm Beacon	The Smart Rack should be equipped with a Remote Monitoring System with e-mail alerts for notifications. The central monitoring system should be integrated with min 7" Touch Screen HMI Controller 1no for each Smart Rack and should not consume any "U" space of Smart Rack and should monitor various sensors. **<u>The following parameters to be Monitored & Controlled by HMI Console:</u> -** **Cooling Units:** • Cooling Unit Switch – On/OFF • Sequencing Control • Real time Monitoring of Supply Air Temperatures (Pre-set & Actual) • Real time Monitoring of Return Air Temperatures (Pre-set & Actual) • Real time Monitoring of Return Air Humidity (%) • Indoor Unit (Evaporator) Real time Fan Speed (%) • Indoor Unit (Evaporator) Fan Speed (%) Set point • Compressor - On/Off Status on HMI • Compressor Set point for: Hysteresis / On Delay / Off Delay

		• Condensing Pressure (PSI) • Phase Fail Alarm • WLD Alarm • Indoor Fan Failure Alarm • Outdoor Fan Failure Alarm • Compressor – HP/LP Alarm • Filter Clog Alarm • Sensor Failure Alarm **IT Rack / Enclosure's:** • Real time Monitoring of Supply / Return Air Temperatures (Pre-set & Actual) • Real time Monitoring of Supply / Return Air Humidity (%) • Fire Alarm (via Smoke Sensor) • Door Open Alarm (Front Door) • Emergency Exhaust Fans – 2nos/Rack • Biometric Access Control • WLD Alarm • Fire Cylinder / Extinguishing Alarm • Extinguishing Agent Pressure (Bar) • Sensor Failure Alarm • Automatic Door Opening System (for Front Door) • Beacon for local Audio / Visual Alarm It should provide a single interface for monitoring all components and generate alerts and warnings. In case of Emergence or in case of Utility Power failure or when the Temperature inside the Rack is going beyond the set threshold point or during cooling unit failure, to open both Front & Rear Door of Rack Automatically (without any human intervention), when the alarm is triggered.
11	Rack Based Fire Detection and Suppression system	Fire Detection and Suppression System should be equipped with discharge nozzle, 3.0 Ltr **PESO / CCOE Approved Cylinder** filled with 3 kg FK-5-1-12 UL listed Agent, fitted with solenoid Valve with manual override fitted with Pressure gauge & flexible hose, Brass adaptor to suit the solenoid valve and transducer. The system should include a manual release & abort switch. Fire detection and suppression system should not occupy any 'U' space in the IT Rack. It should have built-in smoke detection with Smoke Sensors mounted at rear of Rack. The FK- 5-1-12 suppression system cylinders must be mounted on top of Rack and provided with enough agent.
12	Rodent Repellent System	The Smart Rack should be integrated with Ultrasonic Rodent Repellent System
13	Service Support	Complete Installation, testing & commissioning of Smart Rack and the relevant components must be carried out by qualified technicians from OEM.
14	Warranty & Preventive Maintenance	• 36 months from startup or 37 months from supply whichever is earlier. • 4 Preventive Maintenance Per Year from OEM with certified technicians. • OEM Authorization Confirmation, Tender specific.
		Total Price

2) Technical Specification for Enterprise Server

Enterprise Server Infrastructure

The proposed enterprise server platform delivers high-performance computing capability for enterprise applications, virtualization, and AI workloads.

Example Server Configuration
• Form Factor: Rack Server
• Processor: Dual Intel Xeon Processors
• Memory: 1 TB DDR5 RAM
• Storage: 1.92 TB NVMe
• GPU Support: High-performance GPUs
• Network: Dual 10Gb Ethernet Ports
• RAID Controller
• Redundant Power Supply

Key Capabilities

• Virtualization platform support
• High compute performance
• GPU acceleration
• High availability architecture

Server Technical Configuration

S.No	Product Description	Qty	Unit Pirce	Total Price
1	HPE ProLiant Compute DL380a Gen12 8 Double Wide/16 Single Wide Configure-to-order Server	1		
2	Intel Xeon 6505P 2.2GHz 24-core 1210W Processor for HPE	2		
3	HPE 64GB (1x64GB) Dual Rank x4 DDR5-6400 CAS-52-52-52 EC8 Registered Smart Memory Kit	16		
4	HPE ProLiant Compute DL380a Gen12 4SFF FIO Drive Cage Kit	1		
5	HPE 1.924TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	1		
6	HPE ProLiant Compute DL380a Gen12 2DW Captive Riser FIO Kit	1		
7	NVIDIA L40S 48GB PCIe Accelerator	1		
8	Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T Adapter for HPE	1		
9	HPE 96W Smart Storage Lithium-ion Battery with 260mm Cable Kit	1		
10	HPE MR416i-o Gen11 x16 Lanes 8GB Cache OCP SPDM Storage Controller	1		
11	Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE	1		
12	HPE 2400W M-CRPS Titanium Hot Plug Power Supply Kit	4		
13	HPE C19 - C20 250V 16Amp 2.5m IN FIO Power Cord	4		
14	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	1		
15	HPE Compute Cloud Management Server FIO Enablement	1		

16	HPE ProLiant Compute DL380a Gen12 OCPA Cable Kit	1		
17	HPE ProLiant Compute DL380a Gen12 NVMe to Tri-Mode OCP FIO Cable Kit	1		
18	HPE ProLiant DL380a Gen12 GPU 16-pin Cable Kit	1		
19	HPE ProLiant Compute DL380a Gen12 Ball Bearing Rail Kit	1		
20	HPE ProLiant Compute Localization FIO Kit	1		
21	HPE ProLiant Compute DL380a Gen12 4 Double Wide FIO Configuration	1		
22	HPE Compute Ops Management Standard 3-year Upfront ProLiant SaaS	1		
23	HPE Installation Service	1		
24	HPE Proliant DL/ML Install SVC	1		
25	HPE 3Y Tech Care Essential Service	1		
26	HPE iLO Advanced Non Blade Support	1		
27	HPE HPE DL380a Gen12 Support	1		
			Total Price	

3) Enterprise Storage System

The storage solution provides scalable and high-speed data storage designed to support databases, virtualization, backups, and enterprise applications.

Storage Features
• NVMe
• RAID data protection
• Snapshot & backup capability
• High IOPS performance
• Data replication

Storage Benefits
• Faster data access
• Data redundancy and protection
• Scalable storage expansion
• Reliable enterprise-grade storage

Storage System Technical configuration details

S.No	Product Description	Qty	Unit Price	Total Price
1	2062 16Gb Fibre Channel SFF Storage	1		
2	3.84TB SAS 12G Read Intensive SFF (2.5in) M2 3yr Wty SSD	3		
3	16Gb Short Wave Fibre Channel SFP+ 4-pack Transceiver	1		
4	SN3600B 32Gb 24/8 8-port 16Gb Short Wave SFP+ Fibre Channel Switch	1		
5	Premier Flex LC/LC Multi-mode OM4 2 Fiber 15m Cable	8		
6	5Y Tech Care Essential Service	1		
7	2062 Support	1		
8	SN3600B 16Gb 24/8 8p FC Swch Support	1		
			Total Price	

4) Windows Server 2025 Datacenter License

Windows Server 2025 Datacenter is the enterprise edition of Windows Server used for large

data centers, virtualization, and cloud environments.

Licensing Model

Core-based licensing- Must license all physical cores on the server

S.No	Product Details	Quantity	Unit	Price
1	Microsoft Windows Server 2025 Datacentre (16 Core Base License)	1	License	
2	Additional 32 Core License Pack	1	License	
			Total Price	

After licensing all cores on the server:

• Unlimited Windows Server Virtual Machines (VMs)Works with Hyper-V or other hypervisors

• License Activation and Documentation support.

5) Installation and Commissioning and Warranty support

S.No	Product Details	Price
1	**Solution Architecture** The architecture integrates Smart Rack infrastructure, Power Backup, Servers, and Storage systems into a unified and centrally managed platform ensuring optimal performance and reliability. **Key Architecture Components:** • Smart Rack • Enterprise Servers • Storage Systems • Data Center Networking • Windows Server License support **Architecture Details:** **Implementation Plan** Phase 1 – Design & Planning • Requirement analysis • Infrastructure planning • Architecture design **Phase 2 – Deployment** • Smart Rack installation • Server installation	

	• Storage deployment **Phase 3 – Configuration & Integration** • Server configuration • Storage setup • Monitoring system integration **Phase 4 – Testing & Commissioning** • Power backup testing • Server performance testing • Final system validation **Phase 5- Support and Maintenance (5 Years)** Comprehensive support services will be provided for a period of five (5) years to ensure smooth and uninterrupted operations. Support Services Include: • Complete installation and commissioning support • 24×7 technical support assistance • Standard OEM hardware warranty • Remote and onsite support (as applicable) • Firmware and basic software support Preventive Maintenance • Four (4) preventive maintenance visits per year • Preventive maintenance coverage for 5 years • Health check of servers, storage, networking, and power systems • Performance optimization review	
Total Price		
Total Cost (1+2+3+4+5)		
@GST		
Grand Total		

Annexure-III
(ON LETTERHEAD OF THE BIDDER) UNDERTAKING

With respect my/our bid submitted against NIT No. _____date
d
_____, I / We_____Partner / Sole Proprietor (Strike out which is not applicable) of (Name & Address of Firm)_____to hereby declare and solemnly affirm:-

a) That the individual/ firm/ Agency is /are not debarred or black-listed by any department of the Union Govt./State Government or an Autonomous IIMLEIC.

b) That no partner or shareholder, directly or indirectly connected with the applicant has been debarred or blacklisted by any department of Union Govt./State Govt. or Autonomous IIMLEIC.

c) That the terms and conditions for FMS at IIMLEIC are acceptable to me/ us. I/We will abide by them in letter and spirit.

d) That no partner or shareholder, directly or indirectly is connected/related to any employee working in the IIMLEIC.

I/ We do hereby solemnly declare and affirm that the above declarations are true and correct to the best of my/our knowledge and belief. No part of it is false and nothing has been concealed therein. We understand that in case the information provided by us is found to be false/ incomplete at any stage, our bid/empanelment will be liable to be canceled/terminated and attract appropriate action.

Date: _____

Place:_____

STAMP & SIGNATURE OF THE BIDDER