



Indian Institute of Technology Jodhpur

N.H. 62, Nagaur Road, Karwar, Jodhpur - 342030, Rajasthan (India)

☎ 0291-280 1252 | ✉ office_cse@iitj.ac.in

Website: Department: <https://www.iitj.ac.in/computer-science-engineering> |

IITJ: www.iitj.ac.in

INDIAN INSTITUTE OF TECHNOLOGY JODHPUR

Request For Technical Information and Pro Forma Quotations

For Procurement of Thin client setup with a central server

1. Introduction

The Indian Institute of Technology Jodhpur (IIT Jodhpur) intends to procure a **Thin client setup with a central server** for academic and research purposes.

Before initiating the formal procurement process, the Institute invites **Technical Information And Indicative Pro Forma Quotations** from eligible Original Equipment Manufacturers (OEMs) or their authorized representatives.

2. Purpose

The objectives are to:

- Obtain technical information from prospective OEMs/authorized representatives.
- Obtain indicative Pro forma quotations for estimating the procurement cost.

3. Disclaimer

This document is issued **only for obtaining technical information and indicative Pro Forma quotations**.

Submission of information under this proposal:

- shall **not** be treated as a financial bid;
- shall **not** constitute any commitment on the part of IIT Jodhpur to procure the equipment;
- shall **not** confer any right upon the participating firm for award of any future contract;
- shall **not** automatically qualify the responding firm for participation in any future tender.

The Institute reserves the right to modify the technical specifications, estimated cost, procurement methodology, or procurement timeline based on its requirements.

4. Equipment Details

- Name of Equipment: **Thin client setup with a central server**



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- Quantity: As per the item-wise indicative schedule below.

Technical Specifications & Broad Functional Requirements

Category	Broad Functional & Technical Requirements
Central VDI Server Architecture	Compute: Dual-socket, latest-generation (or immediately preceding generation) 64-bit enterprise server processor platform; minimum 32 Cores / 64 Threads per processor; PCIe Gen5 support mandatory. Memory: Minimum 768 GB latest-generation DDR5 ECC Registered RAM (sized for up to 100 concurrent virtual desktops), scalable to 2 TB; at least 25% of DIMM slots must remain unpopulated for future expansion. Storage: Enterprise mixed-use NVMe SSDs (endurance $\geq$ 1 DWPD, current-generation PCIe interface) in hardware RAID (RAID 10/5/6); minimum usable capacity 16 TB; at least 25% of drive bays must remain free for future expansion. Availability: Redundant, hot-swappable 80-Plus Platinum (or higher) certified PSUs sized for full accelerator load; redundant hot-swappable cooling fans.
GPU Acceleration Subsystem	Accelerators: Minimum 2 $\times$ data-centre-class GPU accelerator cards of the latest commercially available generation, with a minimum of 24 GB high-bandwidth VRAM per card (48 GB aggregate); passive / server-grade cooling design. Virtualization: Native support for hardware-level GPU partitioning / virtual GPU sharing, enabling a single physical GPU to be securely shared across multiple concurrent virtual desktops; support for full GPU passthrough for compute-intensive research workloads (AI/ML training and inference, computer vision, simulation). Expandability: Server chassis must provide a minimum of 2 additional vacant double-width PCIe Gen5 x16 slots beyond the 2 populated GPU slots, each with power provisioning of at least 300 W, to accommodate future state-of-the-art accelerator cards without chassis or PSU replacement.
System Sizing & Capacity	Virtual Desktops: The composite system must be sized to host a minimum of 100 provisioned virtual desktops, with at least 80 powered on concurrently for standard productivity workloads. GPU Sessions: Of the concurrent sessions, a minimum of 12 must be able to run GPU-accelerated workloads simultaneously with a dedicated 8–16 GB VRAM slice each from the central pool, in addition to the dedicated 8–16 GB local GPU on every workstation. Physical Seats: 25 physical seats provided by the compact workstations; additional access endpoints (software thin clients, laptops, BYOD devices) may be added later at no hardware cost, connecting through the broker.



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VDI & Management Software	Hypervisor & Broker: Enterprise-grade, current-generation Type-1 hypervisor and connection broker supporting live migration, automated load balancing, and persistent / non-persistent virtual desktop provisioning; equivalent enterprise-supported open-source solutions are equally acceptable. GPU Enablement: All licenses required for GPU virtualization / vGPU sharing and passthrough must be included for the full contract period, covering a minimum of 100 provisioned virtual desktop entitlements. Security: Support for Multi-Factor Authentication (MFA), Role-Based Access Control (RBAC), and centralized Data Loss Prevention (DLP). Licensing Term: Perpetual licenses, or subscription covering the complete 5-year period, with pricing locked at the time of purchase order.
Thin Client Endpoints	Hardware: Latest-generation quad-core (or better) SoC, minimum 8 GB RAM / 32 GB flash storage, fanless design (≤ 15 W active draw). Connectivity: Gigabit Ethernet, dual-band Wi-Fi (Wi-Fi 6 or newer), multiple USB ports including at least one USB-C, dual 4K display support. OS & Support: Secure, centrally managed endpoint OS with remote shadow capability; OEM commitment to firmware and security updates for a minimum of 5 years from date of delivery.
Network & Remote Management	Interfaces: Minimum 2 × 25GbE SFP28 data ports (backward compatible with 10GbE optics) and 2 × 1GbE management ports on the server. Core Switch: 24-port SFP28 Layer-3 managed switch of the current generation, with a minimum of 2 × 100GbE uplink ports for future fabric expansion; VLAN segmentation support for isolating laboratory IoT device traffic from the VDI network. Management: Dedicated IPMI 2.0 / BMC port providing out-of-band KVM-over-IP, telemetry, and remote power control.

• 1.2 Estimated Bill of Quantities (BoQ)

S.No	Component Description	Qty
1.1	GPU-Ready High-Density VDI Central Server (Dual latest-generation 32-Core server CPUs, 512 GB DDR5 ECC RAM, 12 TB usable enterprise NVMe RAID, redundant Platinum PSUs sized for full accelerator load, 4 × double-width PCIe Gen5 x16 slots)	1



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1.2	Data-Centre-Class GPU Accelerators for Central Server (latest-generation, min 48 GB VRAM each — 96 GB aggregate; hardware GPU partitioning into 8–16 GB virtual GPU profiles; min 12 concurrent GPU-enabled sessions; full-card passthrough support; passive server-grade cooling)	2
1.3	VDI Environment, Hypervisor & GPU Virtualization Software Licensing (enterprise-tier licenses including management broker, 100 virtual desktop entitlements, and all GPU sharing / passthrough entitlements; perpetual or 5-year subscription, price locked at PO; enterprise-supported open-source stacks equally acceptable)	1 Lot
1.4	High-Performance Compact Workstation PCs (physical hardware units; latest-generation 8-Core desktop CPU, 32 GB DDR5 RAM, 1 TB NVMe SSD, discrete GPU with 8–16 GB dedicated VRAM, 2.5GbE + Wi-Fi 6, dual 4K output, compact chassis, 5-year onsite warranty; each unit also serves as a VDI access endpoint)	25
1.5	Core Networking Layer (24-Port 25GbE SFP28 Layer-3 managed switch with 2 × 100GbE uplinks, SFP28 transceivers, high-speed Cat6A / fibre patch cabling, VLAN segmentation for IoT device isolation)	1 Lot
1.6	System Integration, Deployment & 5-Year SLA Support (installation and imaging of all workstations, VDI golden image creation incl. GPU-enabled desktop pools, 8x5 next-business-day hardware support; 24x7 4-hour response on the central server)	1 Lot

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(The above requirements are indicative and may be revised after evaluation of the responses.)

5. Eligibility Criteria

Interested firms should:

- Be an Original Equipment Manufacturer (OEM) or an authorized distributor/dealer.



- Have experience in supplying similar equipment.
- Have adequate installation and after-sales service support in India.

6. Information/Documents to be Submitted

The interested firms shall submit the following (*Annexure-I*):

1. Company Profile.
2. Details of the OEM.
3. Product Brochure/Catalogue.
4. Detailed Technical Specifications.
5. Compliance with the Broad Functional Requirements.
6. List of previous users/clients with installation reports
7. Details of Warranty.
8. Details of After-Sales Service Support.
9. Authorization Letter from OEM (where applicable).
10. Any additional technical information relevant to the offered equipment.

7. Pro forma Quotation

- Interested firms are requested to submit a Pro forma Quotation (*Annexure-II*) along with their Request For Technical Information and Pro Forma Quotations response. Indicative **Pro Forma** quotation in Indian Rupees (INR), including the cost of the equipment, essential accessories, taxes, duties, freight, insurance, installation, commissioning, training, and any other associated charges. Wherever applicable, the Annual Maintenance Contract (AMC) and/or Comprehensive Maintenance Contract (CMC) charges and spare parts shall be quoted separately as additional charges.
- Expected delivery schedule and other relevant technical and commercial information.

Important Note:

- The **Pro Forma** quotation is required only for cost estimation and budget planning purposes.
- The prices quoted shall be indicative/non-binding.
- The Pro Forma quotation shall not be treated as a financial bid.
- Submission of a **Pro Forma** quotation shall not confer any right or preference in the subsequent procurement process.

8. Presentation/Demonstration

The Institute may invite for a technical presentation or product demonstration. The



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date and venue shall be communicated separately.

9. Submission :

Interested firms may submit their Proforma Quotations on or before the due date in sealed cover or through email (as applicable).



The envelope/email should be superscribed as:

"Request For Technical Information and Pro forma Quotations for Procurement of Distributed Computing setup with edge and fog Devices"

8. Important Dates

Activity	Date
Publication	29-07-2026
Last Date for Submission	07-08-2026
Technical Presentation (if required)	To be informed
Clarification Meeting (if required)	To be informed

10. General Terms & Conditions

1. This **Request For Technical Information and Pro forma Quotations** is issued only for obtaining technical information and **Pro Forma** estimates.
2. The Institute reserves the right to accept or reject any or all responses without assigning any reason.
3. Submission of an **Request For Technical Information and Pro forma Quotations** does not create any contractual obligation.
4. The Institute may seek additional information, technical clarifications, demonstrations, or presentations from any participant.
5. The Institute may modify the technical requirements based on the responses received.
6. The final technical specifications may be prepared by the User Committee after evaluating all **Request For Technical Information and Pro forma Quotations** responses.
7. The subsequent procurement, if any, shall be carried out through an appropriate procurement method in accordance with the GFR 2017 and applicable procurement rules.
8. Participation in this **Request For Technical Information and Pro forma Quotations** does not automatically entitle any firm to participate in or receive any preference during the subsequent tender process.

11. Contact Details

Name:

Designation:

Department: CSE

Email:



Annexure-I

Request For Technical Information and Pro forma Quotations Response Format

1. Name of the Firm:
 2. Registered Address:
 3. Name of OEM (if applicable):
 4. Contact Person:
 5. Email:
 6. Phone:
 7. Product Name and Model:
 8. Brief Technical Description:
 9. Compliance with Broad Functional Requirements:
 10. List of previous users/clients with installation reports:
 11. After-Sales Service Details:
 12. Any Additional Features:
 13. Remarks (if any).
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Annexure-II

Format for Pro Forma Quotation

Indicative Pro Forma quotation in Indian Rupees (INR), including the cost of the equipment, essential accessories, taxes, duties, freight, insurance, installation, commissioning, training and any other associated charges.

Sl. No.	Description	Qty	Amount (INR)
1	GPU-Ready High-Density VDI Central Server (Dual latest-generation 32-Core server CPUs, 512 GB DDR5 ECC RAM, 12 TB usable enterprise NVMe RAID, redundant Platinum PSUs sized for full accelerator load, 4 × double-width PCIe Gen5 x16 slots)	1	
2	Data-Centre-Class GPU Accelerators for Central Server (latest-generation, min 48 GB VRAM each — 96 GB aggregate; hardware GPU partitioning into 8–16 GB virtual GPU profiles; min 12 concurrent GPU-enabled sessions; full-card passthrough support; passive server-grade cooling)	2	
3	VDI Environment, Hypervisor & GPU Virtualization Software Licensing (enterprise-tier licenses including management broker, 100 virtual desktop entitlements, and all GPU sharing / passthrough entitlements; perpetual or 5-year subscription, price locked at PO; enterprise-supported open-source stacks equally acceptable)	1 Lot	
4	High-Performance Compact Workstation PCs (physical hardware units; latest-generation 8-Core desktop CPU, 32 GB DDR5 RAM, 1 TB NVMe SSD, discrete GPU with 8–16 GB dedicated VRAM, 2.5GbE + Wi-Fi 6, dual 4K output, compact chassis, 5-year onsite warranty; each unit also serves as a VDI access endpoint)	25	
5	Core Networking Layer (24-Port 25GbE SFP28 Layer-3 managed switch with 2 × 100GbE uplinks, SFP28 transceivers, high-speed Cat6A / fibre patch cabling, VLAN segmentation for IoT device isolation)	1 Lot	
6	System Integration, Deployment & 5-Year SLA Support (installation and imaging of all workstations, VDI golden image creation incl. GPU-enabled desktop pools, 8x5 next-business-day hardware support; 24x7 4-hour response on the central server)	1 Lot	
16	Essential accessories (if any)		
17	Taxes & duties (GST etc.)		



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Sl. No.	Description	Qty	Amount (INR)
18	Freight & insurance		
19	Installation, commissioning & training		
20	Any other associated charges		
21	Grand Total (Indicative)		

Warranty Period: _____

AMC / CMC Charges (after warranty):

Delivery Period: _____

Authorized Signatory

Name: _____

Designation: _____

Company Seal & Signature