



INDIAN INSTITUTE OF TECHNOLOGY JODHPUR

Request For Technical Information and Pro Forma Quotations

For Procurement of Distributed Computing setup with edge and fog Devices

1. Introduction

The Indian Institute of Technology Jodhpur (IIT Jodhpur) intends to procure a **Distributed Computing setup with edge and fog Devices** 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.



Indian Institute of Technology Jodhpur

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

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4. Equipment Details

- Name of Equipment: **Distributed Computing setup with edge and fog Devices**
- Quantity: As per the item-wise indicative schedule below.

Sl. No.	Category	Description	Qty
1	Integrated Edge Computing Cluster	4 Servers with each GPU-capable, 25GbE switch, shared NVMe storage, Kubernetes/OpenStack	1 Package
2	Edge AI Nodes	NVIDIA Jetson Orin AGX/NX developer kits	8
3	IoT Network	LoRaWAN gateways, BLE Mesh, Zigbee, Z-Wave, Wi-Fi Mesh	1 Package
4	Drone Mapping	Enterprise mapping drone with RTK + multispectral/3D mapping accessories	2
5	Sensors	Weather, air quality, vibration, water, energy, occupancy	1 Package
6	Embedded Cluster	Raspberry Pi 5 cluster	10
7	Cybersecurity & Monitoring	Network TAP, IDS appliance, monitoring server	1

- Broad Functional Requirements (The essential functions or capabilities that the equipment should have, without mentioning a specific make, model, or brand):

SN	Category	Minimum Specification
1	Integrated Distributed Edge Computing & AI Cluster	Package comprising four (03) GPU-capable compute servers, one high-speed managed network switch, shared storage, rack, necessary accessories, installation and commissioning. Minimum specifications for each server: • Latest generation Intel Xeon Scalable or AMD EPYC processor with minimum 32



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		physical CPU cores • Minimum 128 GB ECC DDR5 RAM (expandable to at least 512 GB) • Minimum one professional AI GPU with at least 20 GB GPU memory • Minimum 2 × 2 TB enterprise NVMe SSD • RAID support • Dual redundant hot-swappable power supplies • Remote management (IPMI/iDRAC/iLO or equivalent) • Minimum two 15 Gbps Ethernet interfaces Shared Infrastructure: • Layer-3 managed switch with minimum 50 Gbps ports • Enterprise shared storage with minimum 20 TB usable capacity • Rack enclosure, necessary interconnects, installation, configuration and testing • Support for Linux, Docker, Kubernetes, OpenStack, Ceph, virtualization and distributed computing frameworks.
2	Edge AI Development Platform	Minimum 8 embedded AI development kits • 8-core or higher ARM processor • Dedicated AI accelerator/GPU • Minimum 16 GB RAM • Minimum 256 GB SSD • Gigabit Ethernet • Wi-Fi 6 or higher • Bluetooth 5.x • USB 3.x • CSI camera interface • GPIO support • Ubuntu/Linux SDK support.
3	Heterogeneous IoT Communication Testbed	LoRaWAN: • 02 outdoor gateways • 10 sensor nodes • Network server, antennas, mounting



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		accessories, software Bluetooth Mesh: • 5 BLE Mesh nodes • BLE gateway/controller Zigbee: • 02 coordinator • 3 routers • 8 end devices Z-Wave: • 01 controller/gateway • 5 compatible smart devices Wi-Fi Mesh: • 06 Wi-Fi 6 (or higher) APs with centralized management General: • Secure communication • IPv4/IPv6 • MQTT/CoAP/REST APIs • OTA firmware updates • Linux-compatible tools • Cloud/edge integration.
4	Drone-based Digital Twin Platform	• 02 enterprise-grade multirotor UAVs • RTK/PPK positioning • 20 MP RGB camera with 3-axis gimbal • Orthomosaic & 3D reconstruction • 35 min flight endurance • Autonomous missions, obstacle avoidance, terrain following, return-to-home • 03 intelligent batteries per UAV • Charging hubs & carrying cases • 02 remote controllers • Software for orthomosaic, point cloud, DEM, DSM, 3D mesh, GIS/CAD export • Compatible with GIS, Digital Twin, edge/cloud processing.



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5	Smart Campus Sensor Infrastructure	Environmental: • 05 temperature & humidity sensors • 05 air quality sensors • 02 weather stations • 05 ambient light sensors • 05 noise sensors Infrastructure: • 05 vibration sensors • 05 occupancy/PIR sensors • 05 smart energy meters • 05 water flow/level sensors • 05 water quality sensors Agriculture: • 05 soil moisture sensors • 05 irrigation controller nodes General: • LoRaWAN/Wi-Fi/BLE/Zigbee/Modbus (as applicable) • Outdoor-rated enclosures • Cloud/edge integration • Remote firmware updates • Digital Twin compatibility.
6	Embedded Distributed Computing Cluster	• 10 embedded Linux computing boards • Quad-core or higher processors • Minimum 8 GB RAM • Gigabit Ethernet • Wi-Fi & Bluetooth • USB 3.x • GPIO • MicroSD/NVMe boot support • Cluster rack/mounting accessories • Managed Gigabit switch.
7	Cybersecurity & Network Monitoring Infrastructure	Network Monitoring Server: • Xeon/EPYC, 16 cores, 64 GB ECC RAM • 4 × 2 TB SSD/NVMe • Linux compatible



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		• Remote management • Redundant power NGFW: • L3-L7 filtering • IPSec/SSL VPN • VLAN, QoS, IPv4/IPv6 • NAT & application-aware policies Packet Capture: • 02 Network TAPs Honeypot: • Minimum 10 virtual/physical honeypots • Windows, Linux, IoT, Web, Industrial, SSH/Telnet • Centralized logging, visualization, malware collection, SIEM integration VPN: • Secure remote-access VPN gateway.
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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 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	Integrated Edge Computing Cluster	1 Package	
2	Edge AI Nodes	8	
3	IoT Network	1 Package	
4	Drone Mapping	2	
5	Sensors	1 Package	
6	Embedded Cluster	10	
7	Cybersecurity & Monitoring	1	
16	Essential accessories (if any)		
17	Taxes & duties (GST etc.)		
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
