

Central University of Jharkhand
(Established by an Act of Parliament of India, 2009)



Ref no. CUJ/ITP/2023/129

Dated: 03/07/2026

Sub: Tender Enquiry for expansion of Indoor Access Point and required Lan Infrastructure for Central University of Jharkhand, Ranchi. www.cuj.ac.in

Sealed quotations are invited for Indoor Access point and required LAN infrastructure compatible with the existing ICT infrastructure for Central University of Jharkhand enclosed in the separate sheet (Annexure – 1) subject to terms and conditions given below : The quotation should be addressed to Technical Cell (I/c) , Central University of Jharkhand, Manatu, Ranchi -835222 and should reach on or before 16/07/2026 at 11:00AM.

The quotation will be opened on 16/07/2026 at 03:00PM

Technical Cell (I/c)

Central University of Jharkhand

(Established by an Act of Parliament of India, 2009)

Ref no. CUJ/ITP/2023/129

Dated: 03/07/2026

Sealed quotations are invited for the Indoor Access Point and required Lan Infrastructure for the Central University of Jharkhand (www.cuj.ac.in).

Interested vendors are requested to submit their quotations in accordance with the terms and conditions outlined in **Annexure-1**.

TERMS AND CONDITIONS

- I. Quotations without any erasures and overwriting must be submitted in sealed cover addressed to The Technical Cell(I/c) ,Central University of Jharkhand, Manatu, Ranchi, 835222 and should reach on or before 16/07/2026 at 11:00 AM. super-scribed Tender/ Enquiry No. and the due date failing which, quotation may be ignored. Tender/ quotation should be sent through Post/ Courier/ By Hand.
- II. The rate quoted should be inclusive of all taxes, and should remain valid for our acceptance for minimum period of six months from the due date of opening of the quotations.
- III. The University will not entertain requests for revision in prices once quoted for whatever reason after the tenders are opened during the period of contract.
- IV. Only IT equipment (SI) firm as mentioned in Annexure- 1 need apply Preferences will be given to the bidder nearby Ranchi.
- V. GST Registration Certificate should be attached.
- VI. All rates shall be indicated both in words and figures. Where there is difference between the rates quoted in words and figures, rate quoted in words will prevail.
- VII. The Tender Document will be single bid system consisting of Annexure-1.
- VIII. All legal disputes shall be under the jurisdiction of Jharkhand High Court, Ranchi.
- IX. The University reserves the right to accept or reject any Bid, without assigning any reason thereof. No correspondence in this regard will be entertained.
- X. Payment shall be released within thirty (30) days upon delivery of the material.
- XI. All the participating firms/agencies should attach supporting documents in favor of:
 - At least 3 years of experience in the field of LAN internet Services.
 - Registered firm/company, submit valid document.
 - Valid GST Number
 - 3 years income tax return
 - Company / proprietors PAN for Income Tax.
 - Product Compliance should be attached on OEM letter head along with datasheet.

Detailed terms and condition regarding will be elaborated in our purchase order.

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FIRM'S INFORMATION

The tenderer must submit the following information against every serial number along with relevant supporting documents

1. Name of the firm
2. Mailing address with contact Number:
3. Name of the Proprietor / Director
4. (i) Tel. No. (ii) Mobile No
- (iii) E-mail address
5. Whether the firm registered firm (Yes/No), if Yes please mentioned registration no.
- (i) GST No. (ii) PAN No.
6. Year of establishment of firm.
7. Name and designation of the person authorized to make communication with Technical Cell, CUJ, Manatu, Ranchi
8. Whether the Firm/Agency has signed each and every page of Tender/NIT (Yes/No).....
9. Any other information, if necessary

Place:

Name

Date:

Address

Bidder Signature & Seal

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Minimum Specification Criteria of the Access Point and LAN Item

1. Indoor Access Points (Type-1 for High-Density Environments)		
Make :		Model :
Sl.No	Technical Specification	Compliance Yes / No
1	Access Point shall support 4X4 MIMO on 2.4GHz, 4X4 MIMO on 5GHz	
2	Access Point shall be able to powered up using PoE/PoE+/UPoE (.af/.at/.bt)	
3	Access Point shall support assurance, packet capture, RF sensing capabilities	
4	Access Point shall support application visibility and control	
5	Access Point shall support encrypted traffic visibility	
6	Access Point should have BLE radio/Zigbee to support use cases of location, asset tracking and analytics, from Day1.	
7	Access Point shall be able to leverage current Access Point mount kit/cable Conduit	
8	Access Point shall have dedicated radio/chipset for spectrum monitoring capabilities, WIPS and off channel RRM without compromising and using the client serving radios.	
9	If required, Access Point should support dual 5Ghz mode for high density scenarios.	
10	Access Point shall provide console-based connectivity that uses standard interfaces such as RJ45/serial USB connection/special SSID for initial config and during disconnected network situations. If serial USB connection is supported by the AP model (10nos of min 3ft serial USB cable to be provided atno extra cost).	
11	Access Point should have 1 x 1Gbps, 2.5Gbps Multigigabit Ethernet (RJ45).	
12	Access Point should have a USB port for future requirements.	
13	Must Support min. PHY data rate upto 5Gbps or more	
14	Must support a minimum of 23dBm of transmit power in both 2.4Ghz and 5Ghz radios. And should follow the local regulatory Norms.	

15	Must support AP enforced load-balance Between 2.4Ghz and 5Ghz band.	
16	Must incorporate radio resource management for power, channel and performance optimization	
17	Must have -96 dB or better receiver sensitivity.	
18	Must support Proactive Key Caching and/or other methods for Fast Secure Roaming.	
19	Must support Management Frame Protection.	
20	Must support the ability to serve clients and monitor the RF environment concurrently.	
21	Same model AP that serves clients must be able to be dedicated to monitoring the RF environment.	
22	Must be plenum-rated.	
23	The solution should have high availability of controllers to avoid the single point of failure. In case both controllers fail, APs should have the capability to serve the clients by converting them to FAT/IAP/Bridge mode automatically or with manual configuration changes.	
24	Must support telnet and/or SSH login to APs Directly for troubleshooting flexibility.	
25	802.11e and WMM	
26	Must support QoS and Video Call Admission Control capabilities.	
27	Must support downlink and uplink OFDMA	
28	Must support TWT & BSS coloring	
29	Peak integrated antenna gains of minimum 4dBi on 2.4GHz, and minimum 5dBi on 5GHz	
46	OEM must have IPR for OS registered in India	

2. 16-Port 1G PoE Network GIGA Switch with SFP port.

SN	Technical specification	Compliance (Yes/ No)
1	Should have 16 ports 10/100/1000 Mbps Base T supported PoE/PoE+.	
2	Should have support for 4 (Four) ports (2x1G SFP and 2x1G RJ45) Based Gigabit ports.	
3	Should have at least 56 Gbps switching fabric.	

4	The switch should have LED: System, Link /ACT, PoE, Speed and LED power saving option.	
5	Should support at least 16K entries in the MAC table.	
6	Packet forwarding rates 17 million PPS	
7	Should Support 4000 minimum VLANs.	
8	The Switch should have minimum 370 Watt PoE/PoE+ Budget. Switch should support Dynamic Power Allocation (per port), Static Power Allocation (per port), Setting PoE Port Priority (low, high, critical) and Persistent PoE,	
9	Should have AC Power Supply 100 to 240 V AC with 50 to 60 Hz and equipped with 3 pin plug.	
10	Should support HOL Blocking and Prevention,	
11	Should support port mirroring and jumbo frame.	
12	Should support following for min. 32 Groups :	
	i) IGMP Snooping, MVRP	
	ii) IGMP v1/v2/v3 awareness Snooping,	
	iii) IGMP Snooping Queried.	
	iv) MLD v1/v2, UDLD and Duplicate Address Detection (DAD)	
	v) Secure Boot, DHCP/BootP.	
13	Should support ERPS, RSTP, MSTP spanning-tree root guard, Port Fast and BPDU Guard/Filter or similar functionalities.	
14	Switch should support :	
	i) Minimum 6 KV Surge protection.	
	ii) PTP (IEEE 1588v2) and NTP.	
	iii) Switch should support Dying Gasp,	
	iv) RMON v1/v2, SNMP v1/v2/v3 and time-domain reflectometer (TDR)	
	v) Out-of-Band Management (OOBM),	
15	Should support following security features viz.:	
	i) Command Line Interface (CLI) and Web Management (HTTPS).	
	ii) Broadcast/Multicast/Unicast Storm Control,	
	iii) Telnet, SSHv2, SNMP v1/v2/v3, sFlow/ NetFlow/ JFlow., TFTP, SCP, Port and VLAN Mirroring and Traceroute	
16	Switch should support following SNMP traps or Syslog	
	i) Interface UP & Down	
	ii) Optical power SFP threshold alarms	
	iii) STP Topology Changes and New root bridge	
	iv) LLDP table changes	
	v) Threshold alarms for Temperature.	
17	Switch should comply to following Temperature performance parameters :	
	i) Operating Temperature - min -5 to 50 °C (23 to 122 °F)	
	ii) Storage Temperature - min -0 to 70 °C (-40 to 158 °F)	
18	It should be IPv6 Compliant and should be capable of working on IPv6 without any additional hardware/software	
19	It shall support MAC address notification to allow administrators to be notified of users added to or removed from the network.	

20	The switch shall be designed for continuous operations.	
21	The switch, including 24/7 phone, email, and chat support from your TAC team, along with 3-year warranty covering hardware and Software replacement.	
22	The LAN switch shall support a console port or auxiliary/Ethernet port for the purpose of local and remote configuration and diagnostics.	
23	802.1x: Port security, Single and Multiple Authentications, MAB	
24	The Switch Should not be Bound to any License for any feature; the entire asked feature set should be available from day one.	
25	Vendor should provide printed technical catalogues/brochures for the quoted model containing technical specifications and features.	

3. Cat6 UTP (305 mtr)

S.No	Parameter	Specification	Compliance (Yes/No)
1	Type	CAT6A U/UTP LSZH Cable, 23 AWG solid bare copper, Unshielded Twisted 4 Pair, Category 6A, confirming to ANSI- TIA 568.2-D for Category 6A & ISO/IEC 11801 for Class Ea.	
2	Pair Separator	+ Shape Spline	
3	Packing	Box of 305 meters	
4	Cable Outer Diameter	7.2 ± 0.3 mm	
5	Minimum Bening radius	8 X cable diameter	
6	Conductor Resistance	≤ 93.8 Ω/km	
7	Pulling Force	100 N	
8	Operation Temperature Range	-20 °C to +70 °C	
9	Flame Properties	Flammability Test: IEC 60332-1	
		Acid Gas Emission Test: IEC 60754-1	
		Smoke Density Test: IEC 61034	
10	Regulatory Compliances	Should be ETL channel performance verified on a 04- Connector channel or more, tested upto 635Mhz or more with an MTPL Plug as per ANSI/TIA- 568.2-D	

		(Part Code to be mentioned in report and should be submitted along with bid) and UL Listed (Relevant Document to be shared)	
		Compliant as per RoHS Directive 2011/65/EU and (EU) 2015/863	
		OEM should be an ISO9001, ISO 14001	
		and ISO	
		45001 should have its Manufacturing units, Components and Finished Goods Warehouse & R&D labs in India. All Related documents to be submitted.	
		OEM factory test reports must be	
11	Test Reports	provided.	

Contact Matrix:

University Contact Points	Vendor Contact Points
Technical Representative (Day-to-day coordination): Sr. Technical Assistant, Technical Assistant niraj.kumar@cuja.ac.in , sandeep.singh@cuja.ac.in	Helpdesk / Service Desk: Name: Contact No/e-mail:
Nodal Officer: System Analyst systemanalyst@cuja.ac.in	Technical Lead / Engineer Name: Contact No/e-mail:
Higher Authority: PIC(Technical Cell) technical.incharge@cuja.ac.in	Senior Authority Name: Contact No/e-mail:

For any queries you may contact email ID technical.incharge@cuja.ac.in

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Financial Bid

NIT Reference No: -

To,
The Technical Cell(I/c) ,
Central University of Jharkhand,
Manatu, Ranchi, 835222

Sl.No.	Item Description	UoM	Quantity	Unit Price Including GST	Total Amount including GST
1	Indoor Access Points (Type-1 for High-Density Environments)	Nos.	8		
2	16-Port 1G PoE Network GIGA Switch with SFP port.	Nos.	3		
3	Cat6 Cable UTP (305 Mtr)	Box	3		
4	RJ-45 (100 Piece)	Box	1		
5	UPS(600 VA)	Nos.	3		
6	Installation and Labour cost	Lot	1		
7	Miscellaneous expenses	Lot	1		
Grand Total =					
In Words :					

Bidder Seal & Signature

Name :

Authorized Signatory :

Address :

Date :

Place :