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QUOTATION CALL NOTICE

Sealed quotations are invited from the authorised suppliers'/dealers/ registered firms having valid GSTIN for the supply of the following articles/software.

The sealed quotation must reach the undersigned on or before dt. 27.12.25.

Articles/Software: -

1. MATLAB SOFTWARE latest version
2. Digitalization of Library Software
3. Campus Wi-Fi
4. CCTV Installation in Campus

For details specification of the above items visit our college website: www.bapujeecollege.org.in.

Sd/- Principal



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MATLAB SOFTWARE SPECIFICATIONS DETAILS

- MATLAB Software symbolic math with toolbox.

DIGITAL LIBRARY SPECIFICATIONS DETAILS

Key Components & Infrastructure: -

- **Hardware:** Servers, storage (terabytes/petabytes), network equipment.
- **Software:** Digital Library Management Systems (DLMS) like DSpace, EPrints; discovery layers; authentication tools.
- **Network:** High-speed internet, TCP/IP, HTTP, FTP protocols for client-server communication.

Content & Metadata Specifications: -

- **Content Types:** E-books, e-journals, audio, video, images, datasets, scholarly articles, learning objects, etc..
- **Formats:** Diverse (PDF, ePub, MP3, JPEG, etc.).
- **Metadata:** Dublin Core (DC), MARC, METS, MODS for organization, indexing, and discovery.

Access & User Experience (UX): -

- **Interfaces:** Web-based, user-friendly, customizable, mobile-responsive.
- **Search:** Advanced, faceted search, relevance ranking, full-text search.
- **Access:** 24/7, multiple concurrent users, remote access, federated search.

Standards, Protocols & Architecture: -

- **Interoperability:** OAI-PMH (Open Archives Initiative Protocol for Metadata Harvesting) for sharing.
- **Communication:** Z39.50 (information retrieval), HTTP, FTP.
- **Architecture:** Scalable, distributed, client-server models (e.g., Kahn-Wilensky, NSDL).

Services & Features: -

- **Discovery:** Browse, search, navigation.
- **Preservation:** Digital preservation strategies for long-term access.
- **Value-Adds:** Personalization, recommendations, analytics, collaborative tools, adaptive learning.

Management & Security: -

- **DRM:** Digital Rights Management to handle copyright.
- **Collection Management:** Development, acquisition, digital curation.

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CAMPUS WI-FI SPECIFICATIONS DETAILS

Key Technical Specifications

- **Wi-Fi Standard:** Modern campus networks use at least **802.11ac Wave 2 (Wi-Fi 5)**, with many now deploying or planning for **802.11ax (Wi-Fi 6)** for better performance in dense user environments. Wi-Fi 7 is an emerging standard with higher speeds and efficiency.
- **Frequency Bands:** Dual-band operation (2.4 GHz and 5 GHz) is standard to support both older and newer devices, with some newer systems incorporating the 6 GHz band (Wi-Fi 6E/7).
- **Data Rates:** Access points (APs) should provide an aggregate data rate of at least 1.2 Gbps for Wi-Fi 5 and significantly higher for Wi-Fi 6/7, which can reach multi-gigabit speeds.
- **Coverage & Capacity:**
 - **Indoor & Outdoor:** The network should cover all academic/administrative blocks, labs, libraries, hostels, and outdoor common areas.
 - **User Density:** APs are often deployed to support a high density of users (e.g., one AP for every 50 students or up to 255 concurrent clients per AP).
- **Network Management:** A centralized management system (cloud-based or on-premise controller) is used for configuration, monitoring, troubleshooting, and zero-touch provisioning of APs.
- **Power over Ethernet (PoE):** APs are typically powered using PoE (e.g., 802.3af standard), simplifying installation by using a single Ethernet cable for both data and power.

Security and User Experience

- **Security Protocols:** Support for strong security standards like **WPA2 Enterprise (802.1X/EAP)** and the newer WPA3 is mandatory, often integrated with RADIUS servers for user authentication.
- **Authentication:** The system should support various authentication methods, including captive portals, MAC authentication, and integration with existing directory services like Active Directory or LDAP.
- **Seamless Roaming:** The network design allows users to move between different APs and even different buildings without losing connectivity, which is crucial for real-time applications like voice calls or video conferencing.
- **Fair Usage Policy (FUP):** While aiming for unlimited data, FUPs may be implemented to manage bandwidth usage, ensuring fair access for all users.

Infrastructure Components

A complete campus Wi-Fi solution involves more than just access points:

- **Access Points (APs):** Indoor and outdoor, enterprise-grade devices that provide wireless connectivity.
- **Wireless Controller:** Software or hardware that centrally manages all APs.
- **Switches:** Layer 2/3 managed switches, often with PoE capabilities, to connect APs to the backbone network.
- **High-Speed Backbone:** A robust wired network, often using fiber optic links, to handle the aggregated traffic from all APs.
- **Gateway/Router:** Connects the campus network to the external internet service provider(s).

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CCTV SPECIFICATION DETAILS

Sl. No.	Material description
1	32 Channel NVR
2	TP LINK 8 PORT POE SWITCH 10/100 GIGA
3	TP LINK 4 PORT POE SWITCH 10/100
4	2U DVR RACK
5	4U DVR RACK
6	TOSHIBA 4TB SURVEILLANCE
7	SMP IP BULLET COLOUR AUDIO CAMERA SMART-1
8	SMP IP DOME COLOUR AUDIO CAMERA SMART-1
9	5X5 PVC BOX
10	DIGITAL RF 45 CONNECTOR
11	CAT 6 CABLE IN DOOR
12	CAT 6 CABLE OUT DOOR
13	10 MTR HDMI CABLE
14	WIRELESS MOUSE
15	1.5 MTR USB EXT CABLR
16	1.5 MM 2 CORE CABLE EINOLEX
17	SERVICE CHARGES

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