Government Engineering College Barton Hill,
Thiruvananthapuram

No. **GECBH/1243/2024-P1**

Dated:07-09-2024

NOTICE

Quotation No: 05/2024-25

    Sealed quotations are invited for the **supply of items required to replace the existing disrupted computer network at the Central Technical Library** of this Institution specified in the schedule attached below/overleaf. The rates quoted should be for delivery of the articles at the place mentioned below the schedule. The necessary superscription, due date for the receipt of quotations, the date up to which the rates will have to remain firm for acceptance and the name and address of officer to whom the quotation is to be sent are noted below. Any quotation received after the time fixed on the due date is liable to be rejected. The maximum period required for delivery of the articles should also be mentioned. Quotations not stipulating period of firmness and with price variation clause and/or 'subject to prior sale' condition are liable to be rejected.

    The prices quoted should be inclusive of all taxes, duties, GST etc. which are or may become payable by the contractor under existing or future law or rules of the country of origin/supply or delivery during the course of execution of the contract.

    Special conditions, if any, printed on the quotation sheets of the tenders or attached with the tender will not be applicable to the contract unless they are expressly accepted in writing by the purchaser.

Superscription   : **supply of items required to replace the existing disrupted computer network at the Central Technical Library** of this Institution
Quotation No: **05/2024-25**
Due date and time for receipt of quotations: **20.09.2024; 2pm**
Date and Time for opening Quotation: 20.09.2024; 3pm
Date up to which the rates are to remain firm for acceptance: 31/03/2025
Designation and address of Officer whom the quotation is to be addressed: Principal Government Engineering College, Barton Hill

Place: Thiruvananthapuram
Date:07-09-2024

SHINY G
PRINCIPAL, EC

Detailed Specifications attached below:

Copy to
1. Sri Rajesh Kumar K, System Analyst (for publishing website)
2. Notice Board

	supply of items required to replace the existing disrupted computer network at the Central Technical Library of this Institution	
Sl.No	Description	Qty
1	24 port unmanaged switch with 2/4 SFP port. IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, IEEE 802.3z Gigabit Ethernet, IEEE 802.3x Flow Control, 802.1p priority, Energy Efficient Ethernet, 802.3af **(see Annexure A)**	1
2	Information Outlets (including Cat 6a UTP Keystone Jack (Gen II)	15
3	Cat.6a UTP, 4 Pair, 23 AWG cable, 100 Ohm impedance, Standardization ISO/IEC 11801 ed. 2.2; IEC 61156-5 2nd ed.; EN 50173-1; EN 50288-6-1; TIA 568-C.2, Data transmission frequencies of up to 250 (305 meters)	1 box
4	Face Plate	15
5	Back Box	15
6	24 port 6a patch panel fully loaded	1
7	Cat 6a patch cord (1mtr)	15
8	Cat 6a patch cord (2mtr)	15
9	9U wall mount rack, 550W 600D Rack with Glass Door, 6 Socket PDU, Hardware kit (20), Cooling Fan, Cable Organisers, Power Distribution Units, DIN Std. 10mm Sq. Slots	1
10	Network & electrical cable trunking channel PVC 50/50 CMS	20 mtr
11	Network & electrical cable trunking channel PVC – laying charge	20 mtr
12	15 node network cable laying and termination on both end, rack installation	1

Annexure - A

24 Port Unmanaged Switch

Category	Specification
Product Type	Unmanaged Switch
Series	Business Series
Port Configuration	
Total Ports	24 Gigabit Ethernet (10/100/1000 Mbps) Ports
SFP Ports	2 Gigabit SFP Ports (Combo with 2 Gigabit Ethernet Ports)
Performance	
Switching Capacity	48 Gbps
Forwarding Rate	35.7 Mpps
MAC Address Table	8K entries
Jumbo Frame Size	9216 bytes
Packet Buffer	2 Mbit
Standards and Protocols	
Ethernet Standards	IEEE 802.3 (10BASE-T Ethernet), IEEE 802.3u (100BASE-TX Fast Ethernet),
	IEEE 802.3ab (1000BASE-T Gigabit Ethernet), IEEE 802.3z (Gigabit Ethernet),
	IEEE 802.3x (Flow Control), IEEE 802.3az (Energy Efficient Ethernet)
Quality of Service (QoS)	802.1p priority based, 4 hardware queues, priority queuing and Weighted Round-Robin (WRR)
Loop Detection	Yes, helps avoid broadcast storms
Cable Diagnostics	Yes, quickly identifies and troubleshoots network cable faults
Media-dependent Interface	Automatic MDI/MDI-X (Auto-crossover for different cable types)
Power	
Power Supply	Internal, universal (100-240V, 50-60Hz)
Power Consumption	Maximum 16.34W
Environmental Conditions	
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Operating Humidity	10% to 90%, relative, non-condensing
Storage Humidity	5% to 90%, relative, non-condensing
Compliance and Certifications	

Regulatory Compliance	UL 60950, CSA 22.2, CE mark, FCC Part 15 (CFR 47) Class A
Additional Conditions	
LED Indicators	Power, Link/Activity, Gigabit, PoE (if applicable)
MTBF (Mean Time Between Failures)	524,296 hours
Accessories	
Included Accessories	Power cord, Mounting kit
Other Conditions	
Network Devices	Devices supporting 802.3 Ethernet, 802.3u Fast Ethernet, or 802.3ab Gigabit Ethernet
Cabling	Cat6a or better Ethernet cable
Weight	below 1.6 kg
Warranty Coverage	5 years