



BANKURA UNIVERSITY

(West Bengal Act XIX of 2013- Bankura University Act, 2013)

Main Campus, Bankura Block-II, P.O.: Purandarpur, Dist.:

Bankura, Pin- 722155, West Bengal

Office of the Registrar

No: RO/BKU/ 114/2023

Date:08 /02 /2023

Tender Notice

Sealed quotations are invited from the reputed manufacturers, suppliers and vendors for purchase and installation of Wi-Fi devices.

The quotations are to be submitted to the Registrar, Bankura University, Bankura Block-II, P.O.- Purandarpur, Bankura, Pin- 722155. Last date of submission of quotation is on 14.02.2023 up to 3.00 p.m.

Eligibility criterion of participation in the tender:

- Bonafide, resourceful and reliable Vendors.
- An undertaking should be given stating thereby that the firm has not been debarred or penalized for any reasons out of work by any Government Department.
- Subletting of suppliers is strictly prohibited.
- The prospective bidders must have valid upto date clearance of Income Tax return / Professional Tax clearance certificate / P.T (Deposit Challan) / PAN Card / **GST registration certificate**.
- The prospective bidders must have valid Trade License/ Enlistment.
- The authorised Dealers/ Vendors must have authorization certificate of dealership.
- The suppliers who have been delisted or debarred by any government department shall not be eligible in any way.
- Past performance for vender will be judged (please attached three largest clients other than the Bankura University).
- Rate is to be inclusive of all taxes, transport charges and installation.
- The rates will be valid upto 30.06.2023.
- The University reserves the right to accept or reject any quotation without assigning any reason whatsoever.

Detail specifications of the items are given below:

Sl. No.	Name of the Item	Specification	Quantity
1	Purchase and installation of Wi-Fi devices	Wireless Access Point – 2 Nos CPU: AR9344 CPU core count: 1 CPU nominal frequency 600 MHz Dimensions 368x125x55mm Size of RAM 64 MB Storage size 16 MB MTBF Approximately 100'000 hours at 25°C Working ambient temperature -40°C to 70°C 2 Cooling type Passive PoE in Passive PoE PoE in input Voltage 11-30 V Wireless 5 GHz Max data rate 300 Mbit/s Wireless 5 GHz number of chains 2	1

Wireless 5 GHz standards 802.11a/n
Antenna gain dBi for 5 GHz 7.5
Wireless 5 GHz chip model AR9344
Wireless 5 GHz generation Wi-Fi 4
Certification CE, FCC, IC, EAC, ROHS IP IP54

Wireless Access Point – 1 Nos
CPU QCA9557
CPU core count 1
CPU nominal frequency 720 MHz
Dimensions 416 x 129 x 58 mm
Size of RAM 128 MB
Storage size 16 MB
MTBF Approximately 200'000 hours at 25C
working ambient temperature -40°C to 70°C
Number of DC inputs 1 (PoE-IN)
Max power consumption 66 W
Max power consumption without attachments 18 W
Cooling type Passive
PoE in Passive PoE
PoE in input Voltage 12-57 V
PoE out 802.3af/at
Max out per port output (input 30-57 V) 450 mA
Wireless 5 GHz Max data rate 867 Mbit/s
Wireless 5 GHz number of chains 2
Wireless 5 GHz standards 802.11a/n/ac
Antenna gain dBi for 5 GHz 7.5
Wireless 5 GHz chip model QCA9892
Wireless 5 GHz generation Wi-Fi 5
10/100/1000 Ethernet ports 5
Certification CE, FCC, IC, EAC, ROHS IP IP54

Wireless Access Point – 1 Nos
Interface Gigabit Ethernet (RJ-45) Port×1 (Support IEEE802.3af PoE and Passive PoE)
Power Supply • 802.3af/at PoE 3 • 24V Passive PoE (+4,5pins; -7,8pins. PoE Adapter Included)
Antenna Type 3 Internal Omni • 2.4 GHz: 4 dBi • 5 GHz: 5 dBi
Wireless Standards IEEE 802.11ac/n/g/b/a
Frequency 2.4 GHz and 5 GHz 1
Signal Rate • 5 GHz:Up to 867 Mbps
Wireless Functions • Multiple SSIDs (Up to 16 SSIDs, 8 for each band) • Band Steering • Load Balance • MU-MIMO • Airtime Fairness
• Beamforming
L3 Management Yes
Multi-site Management Yes
Management VLAN Yes

Wireless Router – 1 Nos
Standards Wi-Fi 5 IEEE 802.11ac/n/a 5 GHz IEEE 802.11n/b/g 2.4 GHz
WiFi Speeds AC1200 5 GHz: 867 Mbps (802.11ac) 2.4 GHz: 400 Mbps (802.11n)
WiFi Capacity Medium Dual-Band 4 Allocate devices to different bands for optimal performance MU-MIMO
Processor 1.2 GHz CPU 1
Ethernet Ports 1× Gigabit WAN Port
WiFi Encryption WPA
Network Security SPI Firewall Access Control IP & MAC Binding
Application Layer Gateway PPPoE PPTP L2TP
Wi-Fi Reception Sensitivity 5GHz: 11a 6Mbps:-93dBm ; 11a 54Mbps:-78dBm ; 11ac HT20 mcs8:69dBm;11ac HT40 mcs9:-

		65dBm; 11ac HT80 mcs9:-62dBm; 2.4GHz: 11g 54Mbps:-78dBm; 11n HT20 mcs7:-74dBm; 11n HT40 mcs7:-71dbm ;	
		23 AWG Pure Copper UTP 6 Cable 70° proof – 200 mtr	
		Cat6e RJ45 Faceplate & Gang Box & I/O 6E	
		<p align="center">POE Switch – 1 pc</p> <p align="center">Interface • 8× 10/100/1000 Mbps RJ45 Ports</p> <p align="center">Network Media • 10BASE-T: UTP category 3, 4, 5 cable (maximum 100m) • EIA/TIA-568 100Ω STP (maximum 100m) • 100BASE-TX: UTP category 5, 5e cable (maximum 100m) • EIA/TIA-568 100Ω STP (maximum 100m) 7 1 • 1000BASE-T: UTP category 5, 5e, 6 or above cable (maximum 100m) • EIA/TIA-568 100Ω STP (maximum 100m)</p> <p align="center">Packet Forwarding Rate 11.904 Mpps</p> <p align="center">PoE Ports (RJ45) • Standard: 802.3 af/at compliant • PoE Ports: Ports 1–4 • Power Supply: 64 W</p> <p align="center">Mac Address Table 4K</p> <p align="center">Jumbo Frame 16 KB</p> <p align="center">Switching Capacity 16 Gbps</p>	
		Installation & Configuration	

Sd/-
Dr. Saurabh Dutta
Registrar (Addl. Charge)
Bankura University

Memo No. RO/BKU/ 114 /1(5)/23

Date: 08/02/2023

Copy Forwarded to:

1. The Finance Officer, Bankura University.
2. System Administrator, Bankura University with a request to upload the notice in the university website
3. Central Store, Bankura University
4. Office Notice Board.
5. Guard file

Sd/-
Dr. Saurabh Dutta
Registrar (Addl. Charge)
Bankura University