

RETENDER NOTICE

Tender No. KUCC/2020/38

Date: 14/02/2020

Sealed competitive tenders are invited from firms for the implementation of Wi-Fi bridging between S H campus, Palayam and University Library. The detailed requirements, terms and conditions are stated below.

Last date and time for submission of bid : 28/02/2020 5.00 PM

Date & time of opening of bid : 29/02/2020 11.00 AM

Hard copies of Quotations to be submitted to the office of The Director
Computer Centre
University of Kerala
Palayam, Thiruvnanthapuram - 34
Phone: 0471 2305801

For technical details contact
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INTRODUCTION

University of Kerala is setting up Wireless bridging system between S H campus and University Library. This is an alternative solution to wired networking at the time of unavailability of this network. Networking infrastructure being the core component forming the backbone of all information transport, invite quotation for providing their expert and competent services for carrying out Supply, Installation, Testing and Commissioning of Wireless bridging system at its campus. Structured Networking system required for Wi-Fi Points. This Networking Infrastructure should act as a reliable platform for all above mentioned converged service. Quotations are requested for the item(s) in complete accordance with the documents/attachments as per guidelines appearing in the document.

SCOPE OF WORK

1. The scope of the work includes Supply, Installation, Testing and Commissioning of the solution and on-site training to authorised person.
2. The bidder shall be responsible for providing all materials, equipment and services specified herein or otherwise which are required to fulfill the intent of ensuring operability, maintainability, and reliability of the complete equipment covered under this tender within bidder's quoted price. The quantities for the passive components mentioned in the tender are the estimates. The bidder may quote and include in their bill of quantities any components, which they deem are necessary for successful implementation of the project.
3. All products being quoted should be compatible and seamlessly integrated with the existing networking infrastructure in University. The bidders are requested to visit the site before submitting the bid.
4. Quantities mentioned in the tender are indicative and therefore may vary as per actual requirements.

5. Each product should come with a comprehensive on-site warranty including labour and spares for three years starting from the date of commissioning and acceptance.

6. The existing OFC/Switches must be used wherever possible. The Connectivity to University Library and S H campus can be used existing switches and network are working has to be connected with the bridging network. The firm shall be responsible to submit documentation of the work.

BOQ

Sl No	Item	Unit	Qty
1	Professional-standard 23dBi Directional outdoor Antenna for Wireless Transmission	Nos	2
2	STP CAT6 cable	Box	1
3	PoE Adapter, 10/100/1000BaseT	Nos	2
4	2 " GI Pol fixing Antenna		
5	HDPE Pipe 32mm	Mtrs	10
6	20 mm PVC conduit with all accessearies	Mtrs	165
7	Fixing and Alignmting of Antenna with all accessories	Nos	2
8	2" GI pole Errection,concreating and painting	Nos	1
9	STP CAT6 cable Laying	Box	1
10	Laying of 32mm HDPE pipe with all Accessearies	Mtrs	10
11	Laying 20 mm PVC conduit with all accessearies	Mtrs	165
12	Termination and Configuration Antenna with all accessearies	Nos	2
13	Warranty for 3 years	Nos	1

Antenna Specification

HARDWARE FEATURES

Processor	560MHz CPU or above
Memory	64MB DDR2 RAM,8MB Flash or above
Interface	1 x 10/100Mbps Shielded Ethernet Port (LAN/POE) 1 x Reset Button
Power Supply	Passive Power over Ethernet via LAN
Antenna Gain	23dBi
Antenna Beamwidth	9°(Azimuth), 7°(Elevation)
Protection	15KV ESD Protection 6KV Lightning Protection
Enclosure	Material: Outdoor PC stabilized plastic with reflector panel Weatherproof: IP65 water and dust proof design

WIRELESS FEATURES

Wireless Standards	IEEE 802.11a/n
Wireless Speeds	Up to 300Mbps (40MHz,Dynamic) Up to 144.4Mbps (20MHz,Dynamic) Up to 72.2Mbps (10MHz,Dynamic) Up to 36.1Mbps (5MHz,Dynamic)
Frequency	5.15~5.85GHz
Transmit Power	Max. 25dBm
Network Configuration	WAN: Static/Dynamic/PPPoE/L2TP/PPTP LAN: Static/Dynamic/DHCP Forwarding: ALG/UPnP/Virtual Server/Port Trigger Security: SPI Firewall/ Ping Forbidden/DoS Protection Access Control Static Routing Bandwidth Control,IP & MAC Binding

Wireless Configurations	Selectable Channel Width: 5/10/20/40MHz Auto Channel Selection Transmit Power Control Dynamic Frequency Selection(DFS) WDS Enable/Disable Security: WPA/WPA2, WPA-PSK/WPA2-PSK (AES/TKIP) Encryption, 64/128/152-bit WEP Encryption SSID Broadcast Enable/Disable Multi-SSID with VLAN Tagging(AP Mode only) Distance/ACK Timeout Setting Wireless MAC Address Filter
Management	HTTP/HTTPS Web-based management SNMP Agent(v2c),Ping Watch Dog,SSH Server
Certification	CE, FCC, IC, RoHS, IP65

Eligibility Criteria for Vendors

- 1.The bidder should be an OEM or an authorized representative of the OEM. The bidder shall furnish the OEM's authorization letter specific to this tender clearly mentioning the tender details for which the authorization is being provided.
2. The bidder shall furnish proof of being capable of providing continuous support including software upgrades availability of spares for a minimum period of 3 years from the respective OEM for the quoted items.
- 3.The bidder/system integrator (SI) should be in the Wi-Fi business for the minimum last three years. The bidder also should have their own after sales support facilities in Thiruvananthapuram. The support facilities should be fully owned by the bidder / OEM and managed by their permanent employees (company payroll) and not through franchisee(s). It is mandatory to enclose the supporting documents.
4. The offered products in the Wi-Fi solution against the supply order shall be the latest version and should be under support for next 3 years. However, if any product, which is declared end of life product by the OEM during the supply period of material,

the bidder should replace model or next higher model/version of the product without any additional cost.

5. The bidder must specify item-wise compliance to the technical specifications. This compliance should also be countersigned by the respective OEM official. The make and model of the quoted items must be clearly specified.

6. The quotation should be valid for a minimum period of 90 days.

7. The bidder has to complete the work as per the time schedule proposed. The University has the right to claim compensation for the delay in completing the work as per schedule.

Note: All the details and the supportive documents for the above mentioned items should be submitted.

Terms and Conditions

1 University does not bind itself to accept the lowest bid or any tender and reserves the right to reject any or all tenders without assigning any reason.

2 Complete technical specifications and pamphlets should be sent along with the bid. Quotations without proper technical specifications will be rejected.

3 A site survey is required to find out Radio Frequency (RF) occurring already in our University environment and its overall effect.

4 The proposed system should support RF Coverage Map to allow troubleshooting of any issue.

5 The time allowed for delivery, installation, commissioning and completion of the work shall be 6 weeks effective from the date of the issue of the purchase order.

6 The bidder shall provide OEM's authorization letter confirming that the OEM supports the bidder.

The Director
Computer Centre
S H Campus
University of Kerala
Palayam – 34
Thiruvananthapuram.