

INVITATION FOR QUOTATION

TEQIP-III/2018/gbec/Shopping/27

29-Oct-2018

To,

Sub: Invitation for Quotations for supply of Goods

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

Sr. No	Brief Description	Quantity	Delivery Period(In days)	Place of Delivery	Installation Requirement (if any)
1	Alluminium Race Way	200	30	GBPIET, PAuri	YES
2	Jack panel	5	30	GBPIET, PAURI	YES
3	Keystone with I/o BOX	200	30	GBPIET, PAURI	YES
4	MMF Module for L3 Switch	12	30	GBPIET, Pauri	
5	OutDoor Access point	7	30	GBPIET, Pauri	
6	Patch Cord	300	30	GBPIET, pauri	
7	Rack with	2	30	GBPIET,	

	Accessories			Pauri	
8	Supply & laying Cat6 Cable	20	30	GBPIET, Pauri	
9	Supply & laying of OFC cable	200	30	GBPIET	
10	Switch 24 port	5	30	GBPIET, Pauri	
11	Switch With feature L3	6	30	GBPIET, PAURI	
12	Wireless Access point	55	45	GBPIET, Pauri	

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme[TEQIP]-Phase III** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.
3. Quotation,
 - 3.1 The contract shall be for the full quantity as described above.
 - 3.2 Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
 - 3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit price.
 - 3.4 Applicable taxes shall be quoted separately for all items.
 - 3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
 - 3.6 The Prices should be quoted in Indian Rupees only.
4. Each bidder shall submit only one quotation.
5. Quotation shall remain valid for a period not less than **45** days after the last date of quotation submission.

6. Evaluation of Quotations,

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

6.1 are properly signed ; and

6.2 confirm to the terms and conditions, and specifications.

7. The Quotations would be evaluated for all items together.

8. Award of contract:

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

8.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

8.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.

9. Payment shall be made in Indian Rupees as follows:

Delivery and Installation - 90% of total cost

Satisfactory Acceptance - 10% of total cost

10. All supplied items are under warranty of **36** months from the date of successful acceptance of items.

11. You are requested to provide your offer latest by **12:30** hours on **12-Nov-2018** .

12. Detailed specifications of the items are at Annexure I.

13. Training Clause (if any) **YES**

14. Testing/Installation Clause (if any) **YES**

15. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.

16. Sealed quotation to be submitted/ delivered at the address mentioned below,

17. We look forward to receiving your quotation and thank you for your interest in this project.

(Authorized Signatory)

Name & Designation

Annexure I

Sr. No	Item Name	Specifications
1	Alluminium Race Way	Metal GI , Galvanized Coating, Pre-Galvanized Metal, Hot-dip Galvanized Metal, Wall/Desk, Floor, Overhead, Vertical, 5 M
2	Jack panel	Should Be made of sheet steel 1.5 mm Should be 19" 1U straight Patch Panel, 24-port Should have integral cable management Metal shelf. Should accept Shielded as well as Unshielded jacks Should have rear cable management shelf metallic powder coated Jack panel should have option to accept different color snap in coding clips Jack panel should have zig zag jack placement or sideways orientation
3	Keystone with I/o BOX	CAT6 IO, Face Plate, Wall Box Combo with Keystone Jack, Face Plates, Wall Box, Color White Square plate, 86mmx86mm Write on labels in transparent plastic window – supplied with plate Material :ABS Plastic Face plate should have option for Hinged dust cap in different colors Face Plate dust cover should be replacable without removing patch cord INFORMATION OUTLET Category 6, EIA/TIA 568-C.2 information outlets Should accept cables from 22-24 AWG copper Should be PCB free and Tool less Material :Halogen Free Should support 950 mating cycles Jack should be optimised for 4PpoE (IEEE 802.3bt) Should support 10GBase-T applications in acc. with IEEE 802.3an up to 500 MHz and 55 m Should be Certified by independent labs like ETL/GHMT/3P/GL for compliance
4	MMF Module for L3 Switch	Transceiver shall support Multimode/Singlemode 1Gbps communication Must be from the same OEM for swiching solution Temperature: -40° C to 70° C Relative Humidity: 10% to 95% Shock: 180 m/s ² (18g), 6ms Random Vibration: 5 – 20 Hz @ 1.0 ASD w/-3dB/oct. from 20 – 200 Hz :

		42" (105cm) EN 300 019-2-3 v2.1.2 (2003-04), Stationary Use, Class 3.1e
5	OutDoor Access point	<p>Maximum number of configured SSIDs Value : 16 Simultaneous users Value : 250 Simultaneous users MU-MIMO Value : 3 Type : Spatial streams Value : 4 Chassis Ruggedized Design : Outdoor Environmental Parameters Humidity Range Operating : 0 - 95% (non-condensing) Max Operating Temperature : 140 °F Min Operating Temperature : -22 °F Header Compatibility : PC Interface Provided Connector Type : RJ-45 Qty : 2 Type : 1000Base-T Line Properties Line Coding Format : 16 QAM, 256 QAM, 64 QAM, BPSK, OFDM, QPSK Miscellaneous Authentication Method : Radio Service Set ID (SSID) Compliant Standards : AS/NZS 4268, AS/NZS 60950-1, CISPR 22, CSA C22.2 No. 60950-1-03, EN 300.328, EN 301.489.1, EN 301.489.17, EN 301.893, EN 50385, EN 60601-1-2, EN 60950-1, EN55022, FCC CFR47 Part 15 B, FCC Part 15 Class B, FCC Part 15.247, FCC Part 15.407, ICES-003 Class B, IEC 60950-1, IEC 60950-22, IP67, RSS-210, UL 60950-1, UL 60950-22 Encryption Algorithm : AES, IKEv2, SSL, WPA, WPA2 Networking Compliant Standards : IEEE 802.11a, IEEE 802.11ac, IEEE 802.11b, IEEE 802.11e, IEEE 802.11g, IEEE 802.11h, IEEE 802.11i, IEEE 802.11n, IEEE 802.11r, IEEE 802.11u, IEEE 802.11v, IEEE 802.11w, IEEE 802.1x, IEEE 802.3af, IEEE 802.3at, UPnP Connectivity Technology : Wireless Data Link Protocol : IEEE 802.11a, IEEE 802.11ac, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n Data Transfer Rate : 2.532 Gbps Features : 4T4R MIMO technology, Ceiling mountable, DFS support, Dynamic Channel Control, Low Density Parity Check (LDPC), Manageable, Management Frame Protection, Maximum Likelihood (ML) Detection, MU-MIMO technology, Multicast to Unicast Conversion, Packet aggregation A-MPDU, Packet aggregation A-MSDU, Pre-Authentication, Quality of Service (QoS), Space Time Blocking Code (STBC), Transmit Beam-forming (TxBF) ready, Transmit Power Control (TPC), Unscheduled Automatic Power Save Delivery (U-APSD), Wall mountable, Wi-Fi Multimedia (WMM) support, Wireless Intrusion Detection System (WIDS), Wireless Intrusion Prevention System (WIPS) Form Factor : External Network Transport Protocol : Bonjour, CSMA/CA, IPSec Power Over Ethernet (PoE) : PoE+ Spread Spectrum Method : DSSS, OFDM Type : Wireless access point Wi-Fi Bands : 2.4 GHz, 5 GHz Wireless Protocol : 802.11a/b/g/n/ac Performance Type : Forwarding performance Value : 90000 packets per second Power Device Power Consumption Operational : 30 Watt Service Support Details Full Contract Period : 1 year Support</p>

		Details Service Included : Replacement Support Details Type : Limited warranty Service & Support
6	Patch Cord	Should be Compliant with Cat.6 requirements of ISO/IEC 11801, EN 50173, EN 50168 and EIA/TIA 568.C.2 The Outer Jacket should be PVC Should be stranded bare copper Patch cord should be optimised for 4PpoE (IEEE 802.3bt) Should be unshielded Patch cord should be terminated using insulation displacement connections Option for different coding clips should be available Same Patch cords should be able to accept locking arrangement in future
7	Rack with Accessories	15 U with all the accessories
8	Supply & laying Cat6 Cable	All Copper components should be from the same OEM.OEM should submit ISO certificate for the manufacturing facilities related to all products involved in tender. All Passive Components should be RoHS (Restriction of Certain Hazardous Substances) compliant. Declaration for RoHS Compliance All Copper Components produced under Environmental protection, based on the EN ISO140001 standard There should be 25 year extended performance warranty/Application Assurance for end -to-end channel. All the components should comply with their respective specifications stated below. OEM should have its own intelligent solution CATEGORY 6 Cable Cat 6 UTP Cable Transmission frequency of 250 MHz (Minimum) Should be 4 pair Cable should be Fire Retardant Jacket: PVC
9	Supply & laying of OFC cable	Fiber components should be from the same OEM.OEM should submit ISO certificate for the manufacturing facilities related to all products involved in tender. All Passive Components should be RoHS (Restriction of Certain Hazardous Substances) compliant. Declaration for RoHS Compliance Fiber Components produced under Environmental protection, based on the EN ISO140001 standard There should be 25 year extended performance warranty/Application Assurance for end -to-end channel. components should comply with their respective specifications stated below. OEM should have its own intelligent solution
10	Switch 24 port	Layer 2 switch, Minimum of 24 ports of 10/100/1000 Base T , Switching capacity and forwarding rate Capacity in Millions of Packets per Second (mpps) (64-byte packets)- 40 Switching Capacity in Gigabits per Second

		<p>(Gbps)- 55 Standard 802.1d Spanning Tree support Fast convergence using 802.1w (Rapid Spanning Tree [RSTP]), enabled by default 8 instances are supported Multiple Spanning Tree instances using 802.1s (MSTP) Port grouping Support for IEEE 802.3ad Link Aggregation Control Protocol (LACP) ? Up to 8 groups ? Up to 8 ports per group with 16 candidate ports for each (dynamic) 802.3ad link aggregation VLAN Support for up to 4096 VLANs simultaneously Port-based and 802.1Q tag-based VLANs MAC-based VLAN Management VLAN Private VLAN Edge (PVE), also known as protected ports, with multiple uplinks Guest VLAN Unauthenticated VLAN Dynamic VLAN assignment via RADIUS server along with 802.1x client authentication CPE VLAN IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, IEEE 802.3ad LACP, IEEE 802.3z Gigabit Ethernet, IEEE 802.3x Flow Control, IEEE 802.1D (STP, GARP, and GVRP), IEEE 802.1Q/p VLAN, IEEE 802.1w RSTP, IEEE 802.1s Multiple STP, IEEE 802.1X Port Access Authentication, IEEE 802.3af, IEEE 802.3at, RFC 768, RFC 783, RFC 791, RFC 792, RFC 793, RFC 813, RFC 879, RFC 896, RFC 826, RFC 854, RFC 855, RFC 856, RFC 858, RFC 894, RFC 919, RFC 922, RFC 920, RFC 950, RFC 1042, RFC 1071, RFC 1123, RFC 1141, RFC 1155, RFC 1157, RFC 1350, RFC 1533, RFC 1541, RFC 1624, RFC 1700, RFC 1867, RFC 2030, RFC 2616, RFC 2131, RFC 2132, RFC 3164, RFC 3411, RFC 3412, RFC 3413, RFC 3414, RFC 3415, RFC 2576, RFC 4330, RFC 1213, RFC 1215, RFC 1286, RFC 1442, RFC 1451, RFC 1493, RFC 1573, RFC 1643, RFC 1757, RFC 1907, RFC 2011, RFC 2012, RFC 2013, RFC 2233, RFC 2618, RFC 2665, RFC 2666, RFC 2674, RFC 2737, RFC 2819, RFC 2863, RFC 1157, RFC 1493, RFC 1215, RFC 3416 All switches are wire speed and nonblocking</p>
11	Switch With feature L3	<p>Minimum of 24 ports of 10/100/1000 Base T with 4 X shared 100/1000BASE-X unpopulated SFP Support 1000SX, 1000 LX, 1000BX, 10G SR/LR, and 100 FX interfaces Switch should support 2x 1/10Gbps SFP+ in additional and exclusive to above required ports which can be upgraded with License to use 10G if required Switch should support 802.3 at poe+ Standard on all Base T ports with 380W PoE Power Budget Should have USB port for Image backup and storage should have dedicated and Exclusive stacking ports with stack bandwidth of 40 GBPS and minimum 8 units per stack support, any license or cables to be required needs to be provided on day 1 have Redundant Power Supply support and variable speed fan to adjust to varying weather conditions in</p>

		<p>campus Each switch should have 128 Gbps or more with non blocking architecture and Forwarding rate of 95 Mpps Should be equipped with minimum 1Gb RAM and 1Gb flash Should have LED indicator for per port status , FAN, PSU and Management Status Hardware and software configuration have for IPv6 from day one Should have 16 K MAC Address, 4 K active Vlans 802.1D spanning Tree and PVST+, 802.1w, 802.1s , Should have BPDU Guard feature on edge port Should have Port based VLAN, MAC based VLAN, private vlan and MVR Should have Both Local and Remote port mirroring Should have Layer2 ping, layer2 traceroute and Multicast Traceroute for Fault Diagnostics Should have 8 Hardware QOS Queues per port Should have traffic rate limiting with Configurable bandwidth granularity of 8 KBps Should have Link Layer Discovery Protocol (802.1ab) to allow auto recognition of third party network devices and LLDP MED for auto configuration Should have MAC address tracking and notification for mac address addition , or movement in the Network Should have minimum 250 Static routes Should be upgradeable to support L3 routing protocols like OSPF , RIP Should have Configurable multicast session limit per port Local authentication database for RADIUS Authentication for 802.1x login Should have MAC security – Lockdown & Limit and MAC address tracking with syslog & snmp notification Should have SSH-2, SCP, SFTP for secure management Should have dynamic arp inspection , DHCP snooping Should have ASIC based traffic flow analysis based on Netflow/ sFlow/ Ipfix Should have minimum 1 K ACL entry support Should have scheduled archiving / uploading of configuration and system log to a central server Telnet server , ssh server, Ping and traceroute over Ipv6 Should have L2 Traceroute, L2 Ping and Multicast Traceroute Web, Console and CLI management Dual firmware and configuration rollback Inbuilt Web based bandwidth utilization monitoring Dedicated Out of Band Ethernet management Port OEM should have 24x7 TAC support with NBD shipment of replacement hardware included in the offer OEM should have atleast 2 supply depots in India</p>
12	Wireless Access point	<p>Access Point (AP) with two integrated, independant radio units 802.11 a/b/g/n/ac and Integrated or External Antenna Include Wall mounting and Ceiling mounting Bracket as per requirement AP should have Kensington Slot or equivalent to improve physical security of the device; AP shall not be configurable to work independent of controller to reduce</p>

		<p>incentives to theft of the device 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM with OFDM 802.11ac Packet aggregation: A-MPDU, A-MSDU 802.11ac Very High-Throughput (VHT): VHT20/40/80 802.11ac Advanced Features: LDPC, STBC, Maximum Likelihood (ML) Detection 802.11n: BPSK, QPSK, 16QAM, 64QAM with OFDM 3x3 MiMO , Minimum 3 X Spatial Steam supporting upto 1.3Gbps Data Rate on 5Ghz and 450 Mbps Data rate on 2.4Ghz 2x 10/100/1000BaseTX Ethernet Port; should support LACP on 2 ethernet ports to create 2 Gbps link to switching infrastructure AP should be plenum rated Simultaneous backward compatible Dual-Band Transmit Power Maximum Supported upto EIRP of 26dbm as per GOI regulation Supports Transmit-Beamforming for high reliability and performance for voice / video / data Supports LDPC to minimize WLAN Overhead Supports STBC to optimize signal consistence Multicast to unicast Conversion on AP Real time RF management of interference detection per channel, automatic channel switch , interference reaction and channel release after interference situation is cleared Must support optional manual TX power setup in 3db steps per frequency band. Video und Voice-over-IP support with roaming Roaming and minimum five Qos Profiles according to IEEE 802.11e. Pre standard Legacy applications and clients must be also prioritized. Packet Encapsulation via CAPWAP tunnelling protocol Centralized and automatic configuration and Management in L2- and L3 environments Supports min. 16 SSID per AP Identification, containment and control for protocols like Bonjour,LLMNR,UPnP Onboard Encryption supports Wired Equivalent Privacy (WEP), WPA (WiFi Protected Access) and WPA2 (IEEE 802.11i, AES), IPSec, IKEv2 Security architecture compliant to IEEE 802.1x for WLAN Clients Radius-Support with PreAuthentication and Pairwise Master Key (PMK) Caching providing roaming transition < 50 ms Support for Opportunistic Key Caching Support of X.509 Certificates Supports VoWLAN with SVP,WMM, 802.11e User based and Rule based Rate limit SSID based Traffic prioritization Supports layer3 roaming day 1 Supports feature set and power save mode of VoWLAN Phones Supports optimized roaming by defined disassociation of VoWLAN phones based on bandwidth thresholds. Supports branch office mode: APs can act controller independant as local Bridges with up to 4K VLAN IDs Supports Access lists on the AP IEEE 802.11h DFS and TPC Support Upgradeable for future standards as far as the requirements are met by hardware. Simultaneous bridging at AP and tunnelling into the controller an the same</p>
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		SSID Supports per client session access control Supports IPv6 Detects and classifies RF interference (Spectrum Analysis & Fingerprinting of interfering frequencies such a bluetooth, microwave etc) without impact to packet forwarding Integrated WIDS and WIPS function without impact to packet forwarding Client Load Balancing between AP's Support Airtime fairness and Application based Filtering natively on Access Points
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FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: _____

To:

Sl. No.	Description of goods (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
Total Cost							

Gross Total Cost (A+B): Rs. _____

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. _____ (Amount in figures) (Rupees _____ amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of ————— months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: _____

Address: _____

Contact No: _____