



MAHARAJA SRIRAM CHANDRA BHANJA DEO UNIVERSITY  
SRIRAM CHANDRA VIHAR, TAKATPUR, BARIPADA, MAYURBHANJ-757003  
No-440 MSCBU-19011/33/2022-STORE SEC-MSCB Date: 21-01-2023

**TENDER NOTICE**

Sealed two-bid tenders are invited from **Original Equipment Manufacturers (OEM)/Authorized Dealers/Partners**, for Supply and Installation of LAN & Wi-Fi Network Equipment for Internet, Restoration of LAN and Wi-Fi Network and Network Maintenance at MSCB University, Sriram Chandra Vihar, Takatpur, Baripada-757003, Odisha in the prescribed format as per the requirements enclosed in the schedule of items given in bid documents. Bid documents with details terms & conditions can be downloaded from MSCBU website '<https://nou.nic.in>' or can be obtained from office of MSCBU.

The tenders along with the tender cost and EMD as given in bid documents in the sealed envelope should be super scribed with Tender for "**Supply and Installation of LAN & Wi-Fi Network Equipment for Internet, Restoration of LAN and Wi-fi Network and Network Maintenance at MSCB University**" and submitted through Speed Post / Regd. Post/ Courier at the office of the Registrar, MSCBU by 5 P.M on or before 30.01.2023. **The technical bid shall be opened on 31.01.2023 at 11:00 A.M. & Price Bid shall be opened on 02.02.2023 at 11:00 A.M.** More details are available at our University Website: <https://nou.nic.in>. The authority reserves the right to accept / reject any or all tenders without assigning any reason thereof and will not be responsible for any postal delay. *No correspondence in this regard will be entertained.*

The interested bidders can inspect the site without hampering the existing setup at any time during working hours on or before 28.01.2023 on any working day at their own cost before submission of tender. No consideration shall be entertained regarding non awareness of the site conditions and constraints after submission of tender.

  
21/01/2023  
Registrar  
MSCB University

Memo 441 /MSCBU,

Dated: 21-01-2023

Copy forwarded to the P.A. to Vice-Chancellor/P.A. to Registrar/Comptroller of Finance/ Notice Boards/ Professor-in-Charge Computer Centre with a soft copy of details tender documents for information and necessary action.

  
21/01/2023  
Registrar  
MSCB University

Memo 442 /MSCBU,

Dated: 21-01-2023

Copy forwarded to Professor-in-charge of University website with request to upload the same in the University website for wide circulation and information of public.

  
21/01/2023  
Registrar  
MSCB University

**Tender Notice for Supply and Installation of LAN & Wi-Fi Network Equipment for Internet, Restoration of LAN and Wi-Fi Network and Network Maintenance at MSCB University.**

**MAHARAJA SRIRAM CHANDRA BHANJA DEO UNIVERSITY**

Sriram Chandra Vihar

Takatpur

Baripada – 757003,

Dist: Mayurbhanj

Odisha, India

Tel : +91-6792-255129

Fax : +91-6792-253908

MSCBU invites sealed offers in Two-Bid form for Supply and Installation of LAN & Wi-Fi Network Equipment for Internet, Restoration of LAN and Wi-fi Network and Network Maintenance at MSCB University.

Interested parties may download the Tender Document from University Website <https://nou.nic.in>

1. Last date of Submission of Bids: 30.01.2023 upto 5:00 P.M
2. Technical Bid Opening Date: 31.01.2023 at 11:00 A.M
3. Financial Bid opening Date: 02.02.2023 at 11:00 A.M
4. Tender fee (Non-Refundable): Rs. 500/- (Rupees Five Hundred only) in the form of a DD/Pay Order favoring The Comptroller of Finance, MSCBU, Takatpur payable at Baripada must be enclosed with the Technical Bid.
5. Earnest Money Deposit: The Bidder shall submit their quotes along with EMD of Rs. 5,000/- (Rupees Five Thousand only) or 1% of the tender value which one is higher. EMD should be in the form of DD / Bank Guarantee favouring The Comptroller of Finance, MSCB University, Takatpur, Baripada-757003 payable at Baripada. This Bank Guarantee should be valid for Bid Validity period mentioned in **Clause 1 under SECTION II.**

**SECTION I: INVITATION FOR BIDS (IFB)**

**Sub:** Supply and Installation of LAN & Wi-Fi Network Equipment for Internet, Restoration of LAN and Wi-fi Network and Network Maintenance at MSCB University

**1. Scope of Work & Technical specifications:**

Detailed scope of work and technical Specifications is as per enclosed **Annexure I**

**2. Eligibility Criteria for bidders:**

The eligibility criteria for pre-qualification of bidders are as under:



- i. The Tenderer(s) must submit the exclusive tender specific authorization from the Registered Company/OEM. In case the Tenderer(s) should not submit the exclusive authorization letter from the manufacturer failing which the offer will be summarily rejected. The certificate so furnished should clearly incorporate the firm name and address from where after sales services shall be rendered. In absence of such authorization, the Bid is liable to be rejected.
- ii. The OEM must have India presence for last 10 years.
- iii. Products to be offered should be new, unused and of current design, not declared obsolete or not declared to become obsolete in next 2-years.
- iv. The bidder should be an organization / company in operation with office and Service Support Center for the last Three years as on 31st Dec 2022 in Odisha preferably in 300 kms range of Baripada, to ensure satisfactory service support after sales.
- v. The bidder must have at least three years of experience in AMC Services support of computer hardware & peripherals, networking Equipment and other IT Equipment in any Government / PSU / Corporate / Banking Sectors / Reputed private sector in the state of Odisha starting from 2018. The documentary proof for the same must be enclosed. In absence of supporting documents, the bid is liable to be rejected.
- vi. Execution of job has to done by single vendor only no third party transfer will be allowed
- vii. The bidder should be a registered firm with GST. The bidder should furnish the registration certificate, PAN No. details, along with the tender paper. Enclose copies supporting documents. In absence of such certificate, the Bid is liable to be rejected.
- viii. The bidder's firm must have audit reports, balance sheets etc for company's financial soundness as required may be furnished for three years from 2018 to 2022 (must be certified by CA failing which the bid is liable to be rejected).
- ix. The bidder should not be black listed in any of the Govt. Organization. Undertaking in this regard must be submitted.
- x. The bidder's firm having ISO 9001 / MSME/Start up registration certificates are preferred.
- xi. Before submission of the tender, please verify the eligibility criteria and ensure fulfilling all the terms and conditions.

### **3. Bid Submission:**

The offer must be submitted in two parts sealed separately as Part-I (Technical Bid) and Part-II (Price Bid) in separate sealed envelopes. Both the bids shall be enclosed in another sealed envelope super scribing:

**“Offer for Supply and Installation of LAN & Wi-Fi Network Equipment for Internet, Restoration of LAN and Wi-Fi Network and Network Maintenance at MSCB University.”**



and the address of the firm should be mentioned in the sender side of the envelope with phone number.

**Tender Notice No. :**

**Due date & time :**

**3.1 Part – I (Technical Bid) shall contain:**

- Technical bid with full details including description of make & model of materials so as to enable technical assessment of the proposal.
- An Undertaking / Authorization certificate as mentioned under Eligibility Criteria.
- **Company Profile (as per PROFORMA I) along with all the supporting documents as desired.**
- Non-Refundable Tender fee of Rs. 500/- (Rupees five hundred only) in the form of DD / Pay Order favouring Comptroller of Finance, MSCB University, payable at Baripada. Quotations without Tender Fee shall be rejected.
- Refundable Earnest Money Deposit (EMD): Offers without Earnest Money Deposit will be rejected.
- The warranty services are required at MSCBU, Takatpur, Baripada. A certificate of warranty as specified in the technical specification should be provided by the OEM in original.
- The detailed technical specifications with Make & Model, Compliance Statement must be as per the technical specifications (as per **Annexure-I**) which needs to be supported by relevant product brochure etc. Without proper Compliance Statement the bid is liable to be rejected.
- Acceptance to the terms and conditions laid down in the tender document. Any deviation in the general terms and condition will lead to the rejection of the bid.

**If the technical offer contains any price information, the offer will be summarily rejected.**

**3.2 Part –II (Price Bid) should contain Only Price Details in the prescribed format as per Annexure-II with proper seal and signature of authorized person. Prices should be given in INR in both figures and words.**



#### **4. Opening of Technical & Price Bid**

Only the technical bids will be opened on 31.01.2023 at 11:00 A.M. Interested bidders may attend the technical bid opening as per the schedule. Price Bids of only the short-listed / technically qualified bidders will be opened in presence of the bidder or their authorized representative on 02.02.2023 at 11:00 A.M. or at the time & date, to be informed later.

The outer cover super scribing in which these sealed covers (i.e. Part I & II) are to be placed should be addressed and reach to the

The Registrar,  
MSCB University  
Takatpur  
Baripada-757003  
Odisha, India.



## **SECTION II: INSTRUCTION TO BIDDERS (ITB)**

### **1. Bid Validity**

Bids shall be valid for minimum 90 Days from the date of opening of technical bid. A bid valid for a shorter period shall not be considered. MSCBU-Baripada may ask bidders to extend the period of validity.

### **2. Delivery & Installation:**

The complete delivery and installation as per our present requirement must be completed at MSCBU, Baripada within 30 days **from the date of P.O.** to meet the time lines. However, separate order may be placed for additional quantities on the same rates on "As and When Required" basis within the Bid Validity period as above. MSCBU-Baripada reserves the right to increase or decrease the Bill of Material as per the requirement without any change in the rates quoted.

Installation and Commissioning shall include the following:

- a) Installation and Testing of the Equipment, Machineries etc. should be supplied by the tenderer.
- b) It will be the responsibility of the tenderer to provide all necessary spares and consumables, softwares (if any) which may be required during installation and commissioning, at no extra cost to purchaser.
- c) The tenderer is to bring their own testing and measuring instruments required for installation, testing, commissioning, which can be taken back after completion.
- d) The tenderer should provide all necessary raw materials for running of the machine during commissioning.
- e) In case the procured items/Equipment directly or indirectly need Computer softwares or in case the items are themselves softwares, those softwares must be Supplied in form of CD/DVD. In case of items/equipment from OEMs, OEM CD must be Supplied. Otherwise the software CD must be written into a CD/DVD/PENDRIVE and to be supplied. In case of Pre-Installed softwares, appropriate Recovery Software CD must be supplied

### **3. Documentation**

Detailed **technical manuals, handbooks, drawings, Warranty card and Factory Quality Assurance checklist, test results** and any other certifications mentioned in the technical specifications shall be supplied along with the consignment.

Supplied manuals/handbooks must cover detailed technical specifications and installation, operation, maintenance and System Safety procedures.

For Experimental setups, **details of theory, procedure and methods of taking measurements etc. should be provided in the form of hand books for each experiment.**

The receipts for taxes paid, if any, for the supplied materials should also be submitted

#### **4. Product Specifications & Compliance Statement**

The bidder should quote the products strictly as per the tender specifications and only of desired / preferred brands. Complete technical details along with brand, specification, technical literature etc. highlighting the specifications must be supplied along with the technical bid. The compliance statements should be supported by authentic documents. **Each page of the bid and cuttings / corrections shall be duly signed and stamped by the authorized signatory. Failure to comply with this requirement may result in the bid being rejected.**

5. In case of any discrepancy between rates mentioned in figures and words, the latter shall prevail. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected.

6. Materials must be properly packed against any damage and insured up to the destination. The material should be directly supplied to MSCBU, Baripada. All the expenses involved in shipping the equipment to MSCBU, Baripada shall be borne by the Bidder. All aspects of safe delivery shall be the exclusive responsibility of the Bidder. MSCBU, Baripada will have the right to reject the component/Equipment supplied, if it does not comply with the specifications at any point of installation/inspection.

7. MSCBU, Baripada reserves the right to divide / split the order between more than one technically qualified bidder to meet the **Technical Requirements and Delivery Schedule**.

8. Earnest Money is liable to be forfeited and bid is liable to be rejected, if the bidder withdraw or amends, impairs or derogates from the tender in any respect within the validity period of the tender.

9. The Earnest Money of all the unsuccessful bidders shall be returned as early as possible but within the Bid Validity period but not before 30 days from the date of Purchase Order. No interest will be payable by MSCBU on the Earnest Money Deposit. The Earnest Money of successful bidder shall be returned after successful performance of the equipment.

10. If any equipment or part thereof is lost or rendered defective during transit, the supplier shall immediately arrange for the supply of the equipment or part thereof, as the case may be, at no extra cost.

11. The rates should be quoted in Indian Rupees for delivery at the Site **BOTH IN FIGURES & WORDS**. All prices shall be fixed and shall not be subject to escalation of any description during the bid validity period.

12. **The price should be inclusive of all taxes strictly as per the format of Annexure-II. The offers which are not as per the format will be rejected.**



**13. Penalty:**

If the delivery, installation and commissioning is not carried out in time as specified in other part of the tender document, the tenderers/manufacture will be charged @ 1 % (one per cent) per week of the total value of the concerned machine / equipment.

**14. MSCBU-Baripada** reserves the right to accept / reject the offers or cancel the whole tender proceedings without assigning any reason whatsoever. Offers through Email / Fax, etc and open offers shall not be accepted. Late / Delayed offers shall not be accepted under any circumstances. Incomplete offers shall be rejected outright. In case the specified date for the submission of offers being declared as a holiday for MSCBU-Baripada, the bid-closing deadline shall stand extended to the next working day up to the same time.

**15.** Any attempt of negotiation direct or indirect on the part of the Tenderer with the authority to whom he has submitted the tender or authority who is competent finally to accept it after he has submitted his tender or any endeavour to secure any interest for an actual or prospective bidder or to influence by any means the acceptance of a particular tender will render the tender liable to be rejected.

**16.** The prospective bidders requiring any clarification about the contents detailed in the tender document may notify to MSCBU-Baripada in writing at MSCBU's address. Clarifications received till 72 hours before the closing date / time of receipt of bids will be responded.

**17.** The items/equipment supplied must be supported by the bidder's technical support engineers. The support must be available 24 hours in a day, seven days a week and 365 days a year. Also provide toll free number / web / email so that it should be possible to contact the Principal Bidder's (OEM's) support Centre.

**18. Unsatisfactory Performance**

The Parties herein agree that MSCBU-Baripada shall have the sole and discretionary right to assess the performance(s) of the Bidder components(s), either primary and or final, and MSCBU-Baripada, without any liability what so ever, either direct or indirect, may reject the system(s) component(s) provided by the Bidder, in part or in its entirety, without any explanation to the Bidder, if found unsatisfactory and not up to level of the acceptance of MSCBU-Baripada.

**19. Disclaimer**

This Tender / Request for Proposal (RFP) is not an offer by MSCBU-Baripada, but an invitation for bidder's response. No contractual obligation whatsoever shall arise from the RFP process.

**20. Declaration:**

The bidder would be required to give certificate as below in his commercial bid.

**21. Solving Disputes:**



The Institution & the Tenderers shall make all efforts to resolve amicably by direct informal negotiation on any disagreement or dispute arising between them under or in connection with this contract.

All disputes arising out of the contract shall be referred to courts under the jurisdiction of the Baripada only.

**The selection for procurement of Equipment will be based on quality and performance along with cost. In this context decision of technical committee nominated by MSCB University is final based on documentary evidence or actual physical verification.**

***The above terms and conditions except those otherwise agreed upon shall form a part of the Purchase Order.***

## **22. Force Majeure**

Notwithstanding the provisions of GCC clauses 22 and 23 , the supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that its delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure.

For purposes of the clause, "Force Majeure" means an event beyond the control of the supplier and not involving the supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

If a Force Majeure situation arises, the supplier shall promptly notify the purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

## **23. Termination for insolvency**

If the supplier becomes bankrupt or otherwise insolvent, the purchaser may terminate the contract by giving written notice to the supplier, without any compensation to the supplier, provided, the such termination will not prejudice or affect any right of action or remedy which has accrued and / or will accrue thereafter to the purchaser.

**“I/We UNDERSTAND THAT THE DETAILS OF THE ITEMS/EQUIPMENTS/SERVICES AS PROVIDED ABOVE ARE SUBJECT TO CHANGE. I/WE AGREE THAT IN CASE OF ANY CHANGE IN THE QUANTITIES REQUIRED FOR ANY OF SERVICES, I/ WE WOULD BE SUPPLYING THE SAME AT THE RATES AS SPECIFIED IN COMMERCIAL BID. I /WE AGREE TO ADHERE TO THE RATES GIVEN ABOVE EVEN IF THE QUANTITIES UNDERGO A CHANGE”.**

**SIGNATURE OF THE BIDDER WITH STAMP**



## **SECTION III: SPECIAL CONDITIONS OF CONTRACT (SCC)**

### **1. Price Basis**

Price quoted should be in the prescribed format as per Annexure-II. The quoted price will be considered firm and no price escalation will be permitted during the bid validity period. Maximum educational discount as could be offered should also be mentioned.

### **2. Billing :**

Billing is to be done in the name of The Registrar, MSCB University, Takatpur, Baripada-757003. No advance payment or payment against Performa invoice will be made. Payment will be made on the basis of the actual bill of material supplied, services rendered after receipt, inspection, installation/testing of Network system and duly certified by authorized representative of MSCBU. The payment shall be made on actual measurement basis.

### **3. Payment**

- 80% of the invoice value of the items after the onsite delivery of items
- Rest 20% of the invoice value of the items after successful Installation of Supplied items, Restoration of LAN and Wi-fi Network and submission of final invoice.
- Maintenance charges to be billed quarterly.

### **4. Warranty**

The parts/whole of the LAN and Wi-Fi Network items for Internet Connectivity, Items installed for restoration should cover at least warranty for 1 year or as specified in the supplied instruments/items.

### **5. Others**

All damaged or unapproved goods shall be returned at the Tenderer risk and cost and the incidental expenditure thereupon shall be recovered from the concerned party.



**PRE-QUALIFICATION/ELIGIBILITY****PROFORMA-I****PARTICULARS OF THE BIDDERS TO BE FURNISHED IN TECHNICAL BID FOR THE PURPOSE OF PRE-QUALIFICATION:**

1	Name of Organization /Firm / Company	
2	Address & Telephone Number	
3	Year of establishment	
4	Status of the Firm (Company/Firm/Proprietary)	
5	Whether registered with the registrar of companies/registrar of firms. If so attach the copy of certificate.	
6	a)Name& Mobile Number of Directors/Partners/Proprietor	
7	Whether registered with GST. Enclose the relevant copies with clearance certificates	
8	Furnish copy of PAN, Latest Income Tax Return filed.	
9	Furnish copies of audited balance sheet & profit & loss account for the last three years certified by CA.	
10	ISO 9001 certificate	
11	MSME certificate	
12	Furnish AMC PO copy	
13	Furnish OEM authorization certificate.	
14	Undertaking document for not be a Blacklisted Firm.	

I certify that I meet the eligibility criteria described in section 2 of the technical bid.

Place:

Date:

Name, Signature & Seal of Bidder:



## **Annexure I : Technical Bid**

**Background:** 1 GBPS Internet connectivity through NKN & OFC cable connectivity is provided by BSNL in the MSCBU main campus. The campus is having LAN and Wi-fi Network. There are various issues with the existing Network Setup. Required materials like Switches, Firewalls, and access points are to be procured, restoration of Network and maintenance to be done from/by the L1 Bidder (The Firm).

### **1) Restoration of existing campus LAN and Wi-Fi network with internet and intranet facility.**

#### **Scope of Work:**

1. The Bidder can inspect the site to know the overall network setup, identify the issues pertaining to the network without hampering the existing network.
2. The firm will supply and install the network Equipment.
3. The Firm will restore the Network LAN and Wifi Network and enable Internet and Intranet by Network Configuration, Troubleshooting, Firmware Update, Cable Dressing etc.
4. Restoration period is 2-3 weeks from the date of Work order.

### **2) Maintenance of campus LAN and Wi-Fi network with deployment of Manpower onsite**

#### **Scope of Maintenance**

- A) Maintenance of exiting LAN / Wi-Fi network for minimum one year with deployment of one network engineer post restoration of the network.
- B) The Firm will deploy one experienced full time Network Engineer onsite by paying him/her required salary/accommodation/allowances.
- C) He/She (Network Engineer) will report to the Director, Computer Centre, MSCB University
- D) He/She will be working during the official day and time. Bio-metric attendance of the engineer will be maintained in the University.
- E) In special case he/she can work during the holiday as per the planning/requirement of Director Computer Centre/Authority of MSCB University.
- F) He/She will be responsible for making network and Wi-Fi live all the time.
- G) Along with the network services for network related issues, he/she will provide day to day IT Services by trouble shooting computer equipment such as laptops, desktops, printers, projectors of the University and take corrective actions.
- H) He/She will frequently checkup all the department network and perform Preventive Maintenance.
- I) He/She will send the Weekly status report to Director, Computer Centre/ Authority of MSCB University.
- J) The Firm will be responsible for over the overall monitoring, management and maintenance of LAN and Wi-fi Network for the Organization and Firmware, update of Routers/Switches /Firewalls and taking remedial action in case of problems by coordinating with the Internet Service Provider and OEM.



K) He/She will abide by the rules and regulations imposed by the University from time to time.

L) MOU will be signed between the University authority and selected firm for maintenance of the existing LAN/Wi-fi network for a period of one year w.e.f. the date of repair/restoration of the system.

**3) Supply and Installation of the Network Equipment**

**TECHNICAL SPECIFICATION OF NETWORK EQUIPMENT**

<b>Item 1: 24 port Giga L2 Managed Stackable switch</b>	<b>Compliance Yes/No</b>	<b>Remarks</b>
<b>Make: D-Link Model : DGS-1510-28X</b>		
Layer-2 Managed Switch having 24x10/100/1000BaseT Ports & 4x10G SFP+ slots.		
Switching Capacity should be at least 128Gbps		
Packet Forwarding Rate should be at least 95Mpps for 64-byte packet size		
The switch should have non-blocking architecture & wire-speed performance under fully loaded condition from first day		
The switch should have smart fan with sensor IC that provides different fan speed based on different temperature.		
The switch should have support for 10G port based physical stacking with at least 6 units per stack & stacking bandwidth of 40Gbps.		
The switch should have support for virtual stacking with at least 32 units per stack & stacking bandwidth of 20Gbps		
<b>The Switch should have following L2 features from first day</b>		
1. MAC Address Table size: At least 16000, support at least 512 static MAC		
2. Flow Control: IEEE 802.3x in full duplex, back pressure in half duplex & HoL blocking prevention		
3. Jumbo Frame Support (at least 9K bytes)		
4. IGMP v1 v2 snooping with at least 512 IGMP snooping groups, Per VLAN IGMP Snooping, host based IGMP snooping fast leave, IGMP snooping querier.		
5. MLD snooping with at least 512 MLD snooping groups, Per VLAN MLD Snooping, host based MLD fast leave, MLD snooping querier.		

6. IEEE802.1D STP, 802.1w RSTP,802.1s MSTP with at least 16 MSTP instances, Root guard or equivalent feature.		
7. The switch should be able to avoid the loop occurring in a single port connected to an unmanaged switch/hub by shutting down the corresponding port or corresponding VLAN		
8. IEEE 802.3ad & IEEE 802.1AX Link Aggregation with at least 8 ports per groups & 32 groups per switch.		
9. Port mirroring for Tx/Rx/Both. One-to-One mode, Many-to-one mode. At least 4 mirroring groups should be supported.		
10. IEEE 802.1Q VLAN, at least 4000 Static VLANs, 4000 Dynamic VLANs Groups, GVRP, Voice-VLAN, asymmetric VLAN, auto surveillance VLAN		
11. Ethernet Ring Protection Switching (ERPS) or equivalent & compatible with maximum 50milli second recovery time.		
The switch should have 802.1p support with 8 queues per port. Support strict, WRR & DRR (Deficit Round Robin) queue handling technique. trTCM, srTCM.		
The switch should support CoS based on VLAN, IP address, MAC address, Ether type, DSCP, TCP/UDP port number, 802.1p priority		
The switch should have Port-based ingress & egress bandwidth control with minimum granularity of at least 64Kbps		
The switch should have support for standard & extended Access control lists. At least 256 Access Lists & at least 768 Access Rules should be supported. Time based ACL.		
The switch should have the following security features from first day: SSHv1 v2 for IPv4 & v6, SSLv1 v2 v3 for IPv4 & v6, Broadcast/Multicast & Unicast storm control, port security feature with at least 128 MAC per port, traffic segmentation, ARP spoofing prevention, IEEE 802.1x port based & MAC based authentication, DHCP server screening, DAI (Dynamic ARP Inspection), BPDU attack protection, DoS attack prevention, Binding of IP address & MAC address with physical port, IPv6 neighbor discovery inspection. Web based Access Control; MAC based Access Control, Dynamic VLAN assignment, Guest VLAN, RADIUS & TACACS+.		

The switch should have feature to protect the CPU from protocol control packet attack.		
The switch should have feature of at least 64 static routes, default root, at least 8nos. Of IP interfaces & IPv6 Neighbor Discovery from first day		
The Switch should have following Management features from first day: Web-based GUI, CLI, Telnet Server, TFTP Client, SNMPv1v2cv3, SNMP trap, DHCP Client, SNTP, debug command, RMONv1, Syslog, ICMPv6, DHCP Relay Option 82, LLDP, LLDP-MED, Dual Image support, Physical console port for Out of band management.		
IPv4 & IPv6 Dual Stack		
The switch should have energy saving green technology based on link status & IEEE 802.3az.		
The switch should be 1U height		
All type of switches & transceivers should be from same make.		

<b>Item 2: Next Generation Firewall for upto 500 users with 3 years warranty and Subscription .</b>			
<b>Make : Gajshield</b>		<b>Model : GS245NU</b>	
		<b>Compliance (Yes/No)</b>	<b>Remarks</b>
<b>S.no</b>	<b>Technical Specification</b>		
<b>1</b>	<b>Hardware Specification</b>		
1.1	Device Should be 1RU (19 Inch Rack mountable)		
1.2	The appliance should have multi-core processor based architecture.		
1.3	The appliance should have minimum 6 x 10/100/1000 Base T Ethernet Port		
1.4	The appliance should have minimum 1 x Interface Expansion slots supported.		
1.5	The appliance should have minimum 500 GB SSD/1000 GB HDD		
1.6	The appliance should have minimum 1 x Management/Console port		
1.7	Proposed solution should have bandwidth quota and time quota for manageability of users		
1.8	The Firewall should be Network DLP compliant		
<b>2</b>	<b>License Deliverable /Description</b>		

2.1	User Identity, Next Generation Intrusion Prevention System (IPS),Zero Day Protection / Advance Malware protection, Web Security Essentials / URL Filtering ; Antivirus, URL Filter, Application Filtering, Anti-Spam, Basic 24x7 Support		
2.2	Need 3 Years / 36 Month License with H/W Warranty		
3	<b>Performance Capacity –Minimum</b>		
3.1	The appliance should have minimum Firewall throughput of 32 Gbps or higher.		
3.2	The appliance should have minimum IMIX throughput of 21000 Mbps or higher Real World Performance		
3.3	The appliance should able to handle minimum 180K new session per second or better		
3.4	The appliance should able to handle minimum 6.5 Gbps NGFW Throughput or better		
3.5	The appliance should have minimum Antivirus Throughput of 6 Gbps or better		
3.6	The appliance should have minimum IPS Throughput of 8 Gbps or better		
3.7	The appliance should have minimum Firewall IMIX Throughput of 21 Gbps or better		
3.8	The appliance should have minimum VPN Throughput of 3.5 Gbps or better		
3.9	The appliance should have minimum 7000 Number of Ipsec VPN Peers supported (Site to Site)		
3.10	The appliance should have minimum 8000 Number of Ipsec VPN Peers supported (Client to Site)		
3.11	The appliance should have minimum 5000 Number of SSL VPN Peers supported (Client to Site)		
3.12	The appliance should have minimum 15M Concurrent Session/Concurrent Connection		
3.13	The appliance Should support 80+ Web categories		
3.14	The appliance Should support 5000+ application Signature		
3.15	The appliance Should support 20000+ IPS Signature		
3.16	The proposed system should have the flexibility to access from cloud based management system to manage Firewall. The proposed system should have the provision to upgrade firewall features to manage and access multiple firewall from single cloud based management system for future requirements.		
3.17	The proposed system should be SD WAN Enable from Day1		

*A*



3.18	The Proposed solution should have an option to provide complete policy enforcement and visibility of users and should restrict the user from disabling it.		
3.19	The organization policy framework must be extended to the remote users and ideally it should control the Web and Application filter of remote user		
3.20	The solution should differentiate between corporate login and personal login to Social Networking site e.g. Facebook		
3.21	The proposed system should have the flexibility to create rules for Popular web-based webmail sites to match various mail attributes such as Subject, From, To, CC, BCC, Msg Body, Msg Body Size, Attachment Text, Attachment Name, Attachment Size, Total Attachment Size, Attachment Type with a wide range of composite conditional option.		
3.22	The proposed solution should filter out bad/important words from chat messages of Gmail hangout chat and Facebook web-chat.		
3.23	The proposed system should provide chat transcripts shown in real time for Gmail hangout and facebook web-chat in case it violates any Policy.		
3.24	The proposed solution should monitor/block & alert of web based popular websites of http and https traffic matching for keywords, regex, phrases and/or patterns.		
3.25	The proposed solution should provide control over data posted on web based popular social networking website		
3.26	The proposed solution should have the control mechanism to various options like Wall, Message, Forum Post, Comments, Note, Events & Chat or matching for keywords, phrases and/or patterns.		

**Item 3: 8 port Gigabit PoE+ Smart Switch for Wi-Fi**

Make : NETGEAR                      Model : GS510TLP/TPP		Compliance (Yes/No)	Remarks
<b>S.no</b>	<b>Technical Specification</b>		
<b>1</b>	<b>Hardware Specification</b>		
1.1	10M/100M/1G RJ-45 copper ports 8		
1.2	PoE / PoE+ ports 8 PoE+ (75W to 190 wPoE budget)		

*Handwritten mark*

1.3	100M/1G SFP (fiber) ports 2 (dedicated)		
2	LEDs		
2.1	Per port : Speed, Link, Activity		
2.2	Per device : Power and Fan		
3	<b>Performance Specification</b>		
3.1	CPU 400 MHz Cortex-A9 Single Core, 512MB RAM 16MB SPI + 256MB NAND FLASH		
3.2	Packet buffer memory (Dynamically shared across only used ports) 1.5 MB		
3.3	Forwarding modes : Store-and-forward		
3.4	Bandwidth 20Gbps		
3.5	Priority queues 8		
3.6	Priority queuing Weighted Round Robin (WRR) and Strict Priority		
3.7	MAC Address database size (48-bit MAC addresses) 16K		
3.8	Multicast Groups 512		
3.9	Number of IPv4 static routes 32		
3.10	Number of IPv6 static routes 32		
3.11	Number of ARP/NDP cache entries 256		
3.12	Number of VLANs 479 ARP / 223 NDP		
3.13	Number of DHCP snooping bindings 8K		
3.14	Access Control Lists (ACLs) 100 shared for MAC, IP and IPv6 ACLs		
3.15	Packet forwarding rate (64 byte packet size) (Mfps or Mpps) 14.88		
4	<b>L2 Services - VLANs</b>		
	IEEE 802.1Q VLAN tagging		
	IP-based VLANs		
	MAC-based VLANs		
	Auto-VoIP VLAN / Auto-Voice VLAN		
	Auto-VoIP		
5	<b>Power Consumption</b>		
5.1	Max power (worst case, all ports used, full PoE, line-rate traffic) (Watts) (100w to 225w)		
5.2	Energy Efficient Ethernet (EEE) IEEE 802.3az		
6	<b>Safety Certifications</b>		
6.1	CB report / certificate IEC 60950-1:2005 (ed.2)+A1:2009+A2:2013 UL listed (UL 1950)/cUL IEC 950/EN 60950 CE LVD: EN 60950-1: 2006 + A11:2009 +		

A1:2010 + A12:2011 + A2:2013 RCM (AS/NZS) 60950.1:2015 CCC (China Compulsory Certificate): GB4943.1-2011; YD/T993-1998; GB/T9254-2008 (Class A) BSMI: CNS 14336-1	
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<b>Item 4: Wi-Fi Access Point with cloud control software</b>			
<b>Make : NETGEAR</b>		<b>Model : WAX610</b>	
		<b>Compliance (Yes/No)</b>	<b>Remarks</b>
<b>S.No.</b>	<b>Technical Specification</b>		
<b>1</b>	<b>Hardware Specification</b>		
1.1	IEEE 802.11ax Wi-Fi 6 standard		
1.2	WMM Wireless Multimedia Prioritization		
1.3	WDS Wireless Distribution System		
1.4	Power over Ethernet (PoE) IEEE 802.3a		
1.5	Power over Ethernet (PoE) IEEE 802.3at		
1.6	OFDM/OFDMA		
<b>2</b>	<b>Physical Specifications</b>		
2.1	Dimensions W x D x H 160.9 x 160.9 x 33.25 mm (6.33 x 6.33 x 1.30 in)		
2.2	Weight 412 g (0.90 lb)		
<b>3</b>	<b>Environmental Specifications</b>		
3.1	Operating temperature 0° to 40°C(32° to 104°F)		
<b>4</b>	<b>Physical Interfaces</b>		
4.1	Interface : One 100/1000/2.5GBASE-T Gigabit Ethernet (RJ-45) ports with Auto Uplink™ (Auto MDI-X) supporting IEEE 802.3af or 802.3at Power over Ethernet (PoE)		
4.2	LED : Four (4): Power and Cloud connection; LAN speed; 2.4GHz status; 5.0GHz status		
<b>5</b>	<b>Security</b>		
5.1	Wi-Fi Protected Access® (WPA, WPA2, WPA3)		
5.2	WPA2 Enterprise		
5.3	Wireless access control to identify authorized wireless network devices		
5.4	MAC address authentication		
<b>6</b>	<b>Network Management</b>		
6.1	App Management for setup, monitoring and management		

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7	<b>Advanced Wireless</b>		
7.1	<b>Wireless Distribution System (WDS) :</b> Bridge mode: Point-to-point wireless Bridge mode: Point-to-multipoint wireless Repeater mode Adjustable Transmit Power Control (TPC) Device detection Identify type of wireless clients in the network		
8	<b>Warranty and Support</b>		
8.1	Hardware Limited Warranty 5 years		
8.2	Next-Business-Day (NBD) Replacement 5 years		

<b>Item 5: 1-Port Single Mode SFP Transceiver Module</b>			
<b>Make :D-link Model : DEM-310GT</b>		<b>Compliance (Yes/No)</b>	<b>Remarks</b>
<b>S.No</b>	<b>Technical Specification</b>		
<b>1</b>	<b>Hardware Specification</b>		
1.1	1000Base-LX Single Mode SFP Transceiver with Duplex LC Connector		
1.2	Support IEEE802.3z 1000BASE-LX		
1.3	At least 10Km distance support on single mode fiber interface		
1.4	Output TX Optical Power MAX.: -3dBm MIN.: -8 dBm		
1.5	Output RX Optical Power MAX.: -3dBm MIN.: - 24 dBm		
1.6	Sensitivity -24dBm		
1.7	Cable Type single-mode 9/125um fiber		
1.8	Operating wavelength: 1310nm		
1.9	Should be same make as switches.		

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**Give in company Letter Pad.**

**Annexure-II PRICE BID**

Sl. No	Item Description	Qty	Make & Model	Rate per unit (In Rs.)	Total Price (In Rs.)
1	Restoration of existing campus LAN and Wi-Fi network with internet and intranet facility.	L.S			
2	Maintenance of campus LAN and Wi-Fi network with deployment of Manpower onsite	One Yr.			
3	Supply and Installation of the LAN and Wi-Fi equipment for Internet Connectivity				
3.1	Item 1: 24 port Giga L2 Managed Stackable switch	30 nos			
3.2	Item 2: Next Generation Firewall for upto 500 users with 3 years warranty and Subscription	1 no			
3.3	Item 3: 8 port PoE Switch for Wi-Fi for Existing Network	20			
3.4	Item 4: Wi-Fi Access Point	20			
3.5	Item 5: 1-Port Single Mode SFP Transceiver Module	5			
<b><u>Grand Total (Rs.)</u></b>					
<b><u>Grand Total (In words)</u></b>					

Note :

- 1) Quoted Price is inclusive of all taxes, transportation duty and other charges if any.
- 2) Product quantity varies as per requirement.

Place:

Date:

Name, Signature & Seal of Bidder:

