



SAMBALPUR UNIVERSITY
(NAAC Accredited with 'A' Grade)
E-GOVERNANCE NODAL CENTRE,
JYOTI VIHAR, BURLA-768019,
SAMBALPUR, ODISHA

No. 028 /19-20/e-Gov.

Dt: 28/6/19

Tender Call Notice

Sealed quotations are invited from Original Equipment Manufacturers (OEM), suppliers and authorized agencies for **"Supply and installation of 11 no of L2 network switch and 22 no of 1G transceiver and NMS (Same OEM) at Sambalpur University Network.** The terms and conditions and the detailed specification of the items can be downloaded from the University website i.e. www.suniv.ac.in or can be obtained from the office of the e-Governance Nodal Centre, Sambalpur University in every working day during office hour (11:00 AM to 05:00 PM) only. Interested Original Equipment Manufacturers (OEM), suppliers and authorized agencies may visit the University Campus at their convenience for site verification /survey and accordingly submit their offer along with the copies of valid GST Registration Certificate, PAN and latest Income tax Return Certificate and experience if any, the relevant documents to **"The Registrar, Sambalpur University, Jyoti Vihar, Burla-768019"** by **Registered/Speed Post only by 12:00 PM of Dt. 08/07/2019** and the tender will be opened on the same day at 03:30PM in presence of the authorized representatives of the firms. All the documents should be enclosed with a sealed envelope which must be superscripted as **"Supply and installation of 11 no of L2 network switch and 22 no of 1G transceiver and NMS (Same OEM) at Sambalpur University Network"**.

[Signature]
Registrar
28/6/19

Memo No. 029(3) /19-20/e-Gov.

Dt: 28/6/19

Copy forwarded to,

1. The Editor, The Sambad, Bhubaneswar, Odisha and the Editor, Express Publication (Madurai) Limited, Bhubaneswar to kindly publish the notice in one issue on or before 01/07/2019 and submit the bills in duplicate along with the issue of the daily news paper where the quotations call notice have been published.
2. The Director, e-Gov. Nodal Centre to up lode in website for wide circulation.

[Signature]
Registrar
29/6/19



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Annexure A

SPECIFICATION FOR L2 Managed Switch with NMS.

SPECIFICATION FOR L2 Managed Switch with NMS.	COMPLIANCE (YES / NO)
DISTRIBUTION SWITCH	
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	
The Switch should have following L2 features from first day	
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 atleast 512 IGMP snooping groups, Per VLAN IGMP Snooping, host based IGMP snooping fast leave, IGMP snooping querier.	
5. MLD snooping with atleast 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 atleast 16 MSTP instances, Root guard or equivalent	
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 atleast 8 ports per groups & 32 groups per switch.	
9. Port mirroring for Tx/Rx/Both. One-to-One mode, Many-to-one mode. Atleast 4 mirroring groups should be supported.	
10. IEEE 802.1Q VLAN, atleast 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.	



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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 atleast 64Kbps	
The switch should have support for standard & extended Access control lists. Atleast 256 Access Lists & atleast 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 atleast 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 neighbour 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 atleast 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	
The switch should have following certifications: FCC, CE, VCCI, cUL, CB, C-Tick	
All switches, Transceivers, Access Points & Wireless Controller should be from same make.	
3 YEAR'S ON-SITE WARRANTY	
All the switches, transceivers & NMS software should be from same OEM	
OEM should have valid ISO 9001 & ISO 14001 for design & development for wired & wireless networking products.	
OEM Brand and company together presence in India should be at least for last 10 years.	
OEM should have presence in the Gartner's magic quadrant for Wired and Wireless LAN Access Infrastructure at least for last 3 consecutive years	
1G Fiber Optic Module	
1G BASE-LX Single Mode Transceiver with Duplex LC Connector	
Support IEEE 802.3z standard	
Atleast 10Km distance support on single mode fiber interface	
Transceiver module should be hot pluggable. RoHS compliant. MSA	



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Compliant	
Operating wavelength: 1310nm	
2 YEAR'S ON-SITE WARRANTY	
All the switches, transceivers & NMS software should be from same OEM	
OEM should have valid ISO 9001 & ISO 14001 for design & development for wired & wireless networking products.	
OEM Brand and company together presence in India should be at least for last 10 years.	
OEM should have presence in the Gartner's magic quadrant for Wired and Wireless LAN Access Infrastructure at least for last 3 consecutive years	
Network Management System	
Network Management System supporting & management of atleast 75nos. Of network devices from day one.	
Should be upgradable to support up to at least 1000 network devices in future	
Support following Management Tasks: <ul style="list-style-type: none"> • Supports SNMP v1, v2c, and v3 • Device auto-discovery • Scheduled and periodic task management • Event notification and event escalation • Supports SNMP trap and syslog collection • Supports Batch Configuration and is capable of configuring multiple devices at a time 	
Should have Flexible Architecture <ul style="list-style-type: none"> • Supports management of devices behind a firewall, NAT, or in remote sites without a VPN 	
Should support following Visualization features: <ul style="list-style-type: none"> • Easy to understand and configure dashboard • Customizable chart system for displaying data • Auto-generated network topology support • Supports real-time device status on topology • Supports real-time device rack and panel simulation 	
Should support following topology view: <ul style="list-style-type: none"> • Supports auto-topology generation • Supports customized topology generation • Supports devices status display • Supports link status display • Supports different structure of topology (tree type, start type) 	
Supporting hardware server should be included with the NMS software	
1 YEAR SUPPORT	
All the switches, transceivers & NMS software should be from same OEM	



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SCOPE OF THE WORK, EXECUTION, MAINTENANCE AND OTHER CONDITIONS :-

This involves setting up of the campus optical fiber network equipment at specified location desired by SAMBALPUR UNIVERSITY, JYOTI VIHAR , BURLA. Network solution should comprise of the following.

1	Supply , Testing & Configuration / Installation	
2	After sale service during warranty period	
3	Supply installation and commissioning of hardware.	
4	Installation of all items as per the supply order on finalization.	
5	Breaking/resetting of Chassis based L3 switch	
6	Complete tagging of all cat6 cable at all departments	

Financial Bid

SL NO	Item Details	QTY	Unit Rate in Rs	Total Price in Rs	GST in Rs	Gross Amount in Rs
1	L2 Managed Switch	11				
2	1 G Transreceiver	22				
3	NMS software supporting at least 75 no of Devices	1				
4	Breaking/resetting of Chassis based L3 switch/L2 switch/ L3 switch if any,					
5	Supply, Testing & Configuration / Installation Complete tagging of all cat6 cable at all departments Media Converter, Splicing, Cabling if required during installation.	Lumpsum				
6		Total				

General Terms and Conditions:

1. The bidder must be an authorized agencies/firms to carry out the work of **"Supply and installation of 11 no of L2 network switch , 22 no's of 1G Transceiver & NMS (SAME OEM) at Sambalpur University"**



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2. The bidder will be allowed to bid in Indian Rupees only. The quoted amount should include GST, labour charge (loading/unloading) and transportation charge. No additional cost will be entertained at later on stage.
3. The bidder must have valid GST Registration Certificate, PAN ,IT Return Certificate.
4. The bidder has to submit an EMD amounting to 2% of the total quoted amount in shape of Demand Draft drawn from any Nationalized bank in favour of Comptroller of Finance, Sambalpur University, payable at SBI, Jyoti Vihar, Burla.
5. The bidder eligible for exemption of EMD must furnish documents/certificates.
6. The bidder may please note that the tender once submitted will not be altered after expiry of the dead line for receipt of tender till the date of validity of tenders and if they do so, their EMD will be forfeited. Completed Tender Document should not have any scope of ambiguity, cutting or overwriting. For inadvertent mistake, if any, the tenderer must strike through erroneous figure/word and legibly write the correct figure/word and it must be authenticated with dated signature of the tenderer.
7. Successful bidder must submit 2% of Bank guarantee of order value as security deposit.
8. The Detailed Specification of items should be furnished on quotation in detail to evaluate the technical efficiency of the items.
9. If the supplier/firm fails to supply the materials as per order in due time the supply order will automatically be cancelled and the EMD money will be forfeited.
10. Delivery should be made at the e-Gov. Nodal Centre at the risk of the supplier without any additional charges within 15 days (as per order) from the date of issue of supply order.
11. **All the switches, transceivers & NMS (Network Management System) should be from the same OEM.**
12. OEM should have valid ISO 9001 & ISO 14001 for design & development of wired & wireless Networking Products
13. OEM Brand and company together presence in India should be at least for last 10 Years.
14. OEM Should have presence in the Gartner's magic quadrant for wire & wireless LAN Access infrastructure at least for last 03 consecutive years.
15. OEM should issue tender specific ink signed authorization **in favour of the Authorised dealer/firm addressing "Registrar, Sambalpur University, Jyotivihar, Burla". The authorization should be sent to email id , registrar@suniv.ac.in & egov@suniv.ac.in** from official email id of OEM to reach before submission of tender.
16. Installation and working demonstration of all the materials supplied shall be the responsibility of the bidder.
17. If a firm which is awarded the contract violates any of the terms and conditions, it shall be black listed and its EMD shall be forfeited.
18. If the supplier fails to supply the materials as per orders in due time the EMD will be forfeited.



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19. The Price of the item & taxes should be quoted separately.
20. The party / supplier while supplying should adhere to the quality of the article for which quoted.
21. Goods should be delivered and installed at all the sections at University at their own cost & risk.
22. Any dispute arising out of transaction shall be subject to the jurisdiction of Odisha high Court.
23. All the documents should be enclosed with a sealed envelope and must be superscripted as "**Supply and installation of 11 no of L2 network switch and 22 no of 1G transceiver and NMS (Same OEM) at Sambalpur University Network**" tender No. 28/1920/2019 dated 28.6.19" and addressed to **The Registrar, Sambalpur University, Jyoti Vihar, Burla-768019.**

The University shall have the rights to alter, modify or delete any term or condition before placing any order


Registrar

Sambalpur University