



College of Engineering, Pune-411 005

Tender  
for

**Supplying Computer Networking Material at  
Hostel Campus and Academic Complex of  
COEP**

Ref: COEP/ Computer-IT/ Computer Networking Material /2011/

DATE: 25-11-2011

Cost of document Rs. 10,000/-

COEP/ Computer-IT / Computer Networking Material /2011/



COLLEGE OF ENGINEERING, PUNE  
SHIVAJINAGAR, PUNE-411005

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Ref: COEP/ Computer-IT / Computer Networking Material /2011/

DATE: 25 -11 - 2011

## INVITATION OF TENDER

**Name of the Work:** Sealed bids are invited from reputed organizations for supplying computer networking material for Hostel campus and Academic Complex of College of Engineering Pune as per the **Annexure \_I**

### 1. Eligibility Criteria:

- 1.1 The bidder must have minimum three years experience in the networking area (documentary proof in the form of work orders, completion certificate should be attached). The proof must clearly state the details of the supply of the computer networking material and installations. Also, the bidder must have executed the purchase order of not less than Rs. 100.00 Lacs (Single order) during last three years.
  - 1.2 The bidder's annual turnover for last three years (3 years) must be more than Rs. 1000.00 lakhs for each year (Proof of the same in the form of audited Balance Sheets/ Income Tax Returns of the Company for the last 3 years must be attached)
  - 1.3 The bidder should be an authorized partner of the Original Equipment Manufacturer (OEM). Proof of the same must be attached. Also, bidder should be certified by OEM for the technologies being considered in this tender.
  - 1.4 Name of contact person, address details along with telephone and mobile nos. must be provided by bidder.
2. Bidder should have an appropriate authorization letter from the principal vendor (OEM) in reference to this enquiry (Reference No: COEP/ Computer-IT / Computer Networking Material /2011/ Dated 25/11/2011).
  3. **It is mandatory for Bidder to understand the existing CWN. For this bidder should visit the site before quoting the offer.**

4. **Order Placement:** The bidder has to clearly mention the address for placement of order.
5. **Make of Items:** Bidder should mention make, model and Part Code of the items in the offer.
6. All the devices mentioned in the tender should be sourced from single OEM only.
7. Bidder shall be responsible for successful Installation, commissioning, Implementation, Deployment and testing of the supplied Networking Equipment.
8. Bidder shall be responsible for supplying all the necessary accessories for mounting, installation and commissioning of tender items being considered as per requirement.
9. The institute reserves the right to cancel and/or change the quantities and/or items mentioned without citing any reasons.
10. The Institute reserves the right to select or reject the offer of the vendor without citing any reasons.
11. The Institute reserves the right to cancel purchase order, before or after the delivery of material before payments, without citing any reasons.
12. **The institute has Customs, Excise duty, and octroi exemption as applicable.**

### **13. Technical Documentation**

All products quoted should be associated with technical data sheet containing specific model numbers and names.

14. **Work Completion:** The entire work must be completed within 40 (Forty) days of receipt of confirmed order.

### **15. Technical Documentation after installation**

The Bidder shall submit the following documentation after installation of the equipment

- 15.1 Site diagram showing exact location of connects, placement of racks and active components.
- 15.2 Bill of Material used for the site.
- 15.3 Warranty certificate indicating 3 year's warranty (8\*5 NBD Hardware Replacement) from the Principal Vendor (OEM) for networking items.

- 15.4 Contact details of the contractors nearest office to the site.
16. **Service Support:** Onsite comprehensive Support (Material + call basis labor support) should be provided for a minimum period of 3 years by the bidder.
17. **Comprehensive Warranty:**
- 17.1 Three Years Comprehensive Warranty for Supplied items from OEM.
- 17.2 The Supplier shall be fully responsible for the Manufacturer's warranty for all equipment, accessories, spare parts etc. against any defects arising from design, material, manufacturing, workmanship, or any act or omission of the manufacturer / Bidder or any defect that may develop under normal use of supplied equipment during the warranty period.
- 17.3 In case the Bidder is unable to fulfill his obligations during the warranty period, the warranty obligations will fully and automatically devolve upon the Manufacturer of the goods. The Bidder shall be fully responsible for getting the product replaced from the principle company or coordinating the same with the principle company during the warranty period.
18. If during such independent inspection by the Purchaser it is found that the site certification given by the Bidder and certified by the Principal Manufacturer is not correct, an amount equal to 5 times the value of the contract for which such certification has not been found to be proper shall be recovered as penalty. Such amounts may be recovered from all the bills for which payments have not been made or from the Performance Bank Guarantee or Security deposit placed with the Purchaser.
19. **Payment:** 50% payment of total amount (towards material) shall be made at the earliest on receipt of the material in good condition in stores of Hostel, COE Pune. The balance payment will be paid immediately after completion of the work in all respect.
20. **Performance Security Deposit / Bank Guarantee:** Performance Security Deposit / Bank Guarantee (Nationalized Bank only) for an amount @ 10% value of the contract (if order is placed) is to be submitted immediately before commencement of the work. The performance security must be valid during the support period i.e. for **THREE** years. The same will be returned after completion of support period.
21. **Verification of Bank Guarantees:** Bank Guarantee submitted by the Bidder as EMD/ Performance Security is subject to verification from the issuing bank by purchaser before its acceptance.

**22. Tender Timelines:**

Period for availability of Tender Forms	25-11-2011 to	05-12-2011
Timings	11.00 hrs to	16.00 hrs
Place for availability of Tender Forms	Office of Computer Engg. and IT, COE Pune	
Dead line for receipt of Tender	05-12-2011	17.00 hrs
Opening of the Tenders	07-12-2011	12.30 hrs.

23. Tenders will be opened in the presence of Bidders or their representatives who choose to attend at 12.30 Hrs. Wednesday, 7<sup>th</sup> December 2011 in the office of the Computer Engg. and IT Department, College of Engineering, Pune.
24. Further details of this Tender and the relevant information are available in the office of Computer Engg. And IT Department, College of Engineering, Pune.
25. We look forward to receiving your Tenders and thank you for your interest in this project.
26. All duties, taxes and other levies payable by the bidder needs to be included in the total price, and break up needs to be indicated.
27. The Tenders should be signed and submitted in the following format.
28. Incomplete Tenders will be rejected without considerations.

**Head,**  
Computer Engg. and IT Department,  
College of Engineering, Shivajinagar,  
Pune.-411005.

**Annexure\_I****Bill of Quantity:**

The details items, quantities are below. Please quote your most responsive offer in the following format ONLY. **Bidder should quote all the items rate in INR Only.**

Item No	Item/Product	Description	Quantity	Unit	Unit Rate (Inclusive of All Taxes)in Rs.	Total Amount (Inclusive of All Taxes)in Rs.
1	Gigabit Router	<ol style="list-style-type: none"> <li>1. Gigabit Ethernet Router with a fixed platform having embedded service Quantum Flow Processor of minimum 5 Gbps, crypto engine bandwidth of minimum 1.5 Gbps and default 4 numbers of Gigabit Ethernet routed LAN ports inbuilt on the chassis</li> <li>2. Should support links upto STM16</li> <li>3. Should have minimum 2 slots for adapter port upgrade</li> <li>4. GigaBit Ethernet Fibre Module for multimode fibre of 62.5/50 micron size that can extend upto 270 meters- 3 numbers</li> <li>5. GigaBit Ethernet UTP Module which can extend upto 100 meters- 3 numbers</li> <li>6. Should support important protocols and feature namely BGP, ISIS, OSPF, IPSec, MPLS, L3 VPN, IPv4, IPv6, and tunneling protocols.</li> </ol>	1	No.		
2	Firewall	Security Appliance with minimum firewall throughput of 4 Gbps, minimum IPS throughput of 1.9 Gbps minimum VPN throughput of 900 Mbps, minimum 9, 000, 00 concurrent sessions and minimum 4000 IPSEC VPN peers. The appliance should support minimum 90 virtual firewall contexts (Need not be available by default, should be available through license upgrade). The appliance should come by default with redundant internal power supply, 8 nos of Gigabit	1	No.		

		Ethernet ports and 2 Gb Ethernet ports acting exclusively as management console. The appliance should support VPN clustering and load balancing.				
3	Chassis based core switch with 48 port Ethernet line card	9-slot chassis, 2 Tbps switch fabric that enables 80 Gbps switching capacity per slot on all the line card slots with base model of supervisory engine, Power supplies (1+1), Gateway Load Balancing Protocol, Hot Standby Router Protocol (HSRP), Multi-module Ether-Channel technology, Rapid Spanning Tree Protocol (RSTP), Multiple Spanning Tree Protocol (MSTP), Per-VLAN Rapid Spanning Tree, Rapid convergence Layer 3 protocols, support. The system should have the capability to integrate Firewall module of 20 Gbps, IDS module having 600 Mbps of inline performance, Wireless LAN services module having scalability up to 500 access points per module with support for 10,000+ wireless client devices.	1	No.		
4	Chassis Based Switch With 48 port Ethernet line card	10-slot chassis having 520Gbps system performance with 48Gbps per slot to every line-card slot, with 225 Mpps of throughput with redundant supervisory engine & redundant power supply and can scale up to 384 Gigabit Ethernet ports, having full backward compatibility with 6 G, 24 G, and 48 Gbps slot line cards with no performance degradation	1	No.		
5	24 port Layer 3 manageable Switch (CLI,WEB Based and manageable through Network Management Software)	24 10/100/1000 Ethernet Ports, 4 * SFP Base GigaBit Ethernet Ports with L3 IP Base Software feature set with L3 IP Base Software Fully managed switch, IPv6 support, RIP, minimum 32 Gbps fabric capacity, 38.7 Mpps forwarding rate. 256 802.1Q vlans, 802.1x, MAC, Web based authentication.	7	Nos.		
6	24 port Layer 3 manageable Switch	24 10/100/1000 Ethernet Ports,support Modular Uplinks 4x1G or 2x10G switch with LAN based software	7	Nos.		
7	48 port Layer 2 manageable Switch(CLI,WEB Based and manageable	48 Ethernet 10/100 and 2 * 10/100/1000 BaseT Fully managed switch, IPv6 support, 15 Gbps fabric capacity, 10Mpps forwarding rate, 256 802.1Q vlans, 802.1x, MAC,	22	Nos.		

	through Network Management Software)	Web based authentication.				
8	48 port Layer 2 manageable Switch (CLI,WEB Based and manageable through Network Management Software)	48 Ethernet 10/100/1000 and 4 * 10/100/1000 SFP slots with optional stacking feature up to 4 switches having Stacking BW of 20 Gbps. Fully managed switch, IPv6 support, Forwarding bandwidth 88 gbps, 175 Gbps of full duplex switching bandwidth, 77 Mpps forwarding rate, 256 802.1Q vlans, 802.1x, MAC, Web based authentication and Energywise feature., Multicast VLAN registration, and Voice VLAN Feature.	22	Nos.		
9	24 port Layer 2 manageable Switch (CLI,WEB Based and manageable through Network Management Software)	24 Ethernet 10/100 and 2* 10/100/1000 BaseT Fully managed switch, IPv6 support, 15 Gbps fabric capacity and 6Mpps forwarding rate. 256 802.1Q vlans, 802.1x, MAC, Web based authentication.	22	Nos.		
10	24 port Layer 2 manageable Gibic Switch (CLI,WEB Based and manageable through Network Management Software)	24 Ethernet 10/100/1000 and 4 * 10/100/1000 SFP slots with optional stacking feature up to 4 switches having Stacking BW of 20 Gbps. Fully managed switch, IPv6 support, 175 Gbps of full duplex switching bandwidth, 41 Mpps forwarding rate, 256 802.1Q vlans, 802.1x, MAC, Web based authentication and Energywise feature., Multicast VLAN registration, and Voice VLAN Feature.	22	Nos.		
11	24 port Layer 2 PoE + manageable Switch (CLI,WEB Based and manageable through Network Management Software)	24 Ethernet 10/100/1000 PoE+, 4* 10/100/1000 SFP slots All ports supporting up to 15.4 watt. Fully managed switch, IPv6 support, minimum 80 Gbps fabric capacity, 40 Mpps forwarding rate. 256 802.1Q vlans, 802.1x, MAC, Web based authentication .IEEE 802.3at standard POE.	3	Nos.		
12	Network Management Software	Network Management Software for configuration and inventory management of existing network devices (Cisco OEM) as well as network products to be procured in this tender. Number of	1	Nos.		



		devices supported should be 300 with license scalability (without hardware change) to 1500 devices				
13	Wireless Controlling Device with Indoor environments , internal antennas and CON support	<ol style="list-style-type: none"> <li>1. Dual-band controller-based 802.11a/g/n</li> <li>2. Dual-band 802.11a/g/n 10 quantity access points pack</li> </ol>	1	Nos.		
14	Wireless Controlling Device with Indoor environments , external antennas and CON support	<ol style="list-style-type: none"> <li>1. Dual-band controller-based 802.11a/g/n</li> <li>2. Dual-band 802.11a/g/n 10 quantity access points pack</li> </ol>	1	No.		
15	Controller-based access point Indoor, challenging environments, with external antennas with CON Support	<ol style="list-style-type: none"> <li>1. Dual-band controller-based 802.11a/g/n</li> <li>2. Dual-band 802.11a/g/n 10 quantity access points pack</li> </ol>	35	Nos.		
16	Wireless Access Point (Wi-Fi Certified) - Type 1	<p>802.11a/g/n Indoor Access Point with built-in integrated antenna of minimum 3 dBi gain with centralized manageability support, minimum frequency 2.4Ghz, Minimum gain 4 dbi</p> <p>Feature Support to wireless IPS</p>	35	Nos.		
17	Wireless Access Point (Wi-Fi Certified) - Type 2	<p>802.11a/g/n Indoor Access Point with optional external antenna with centralized manageability support. Minimum frequency 2.4Ghz, Minimum gain 2.2 dbi. Circular( 360 degree) Coverage, 3 dipole antennas per access point</p>	3	Nos.		

		Feature Support to wireless IPS				
18	Wireless LAN Management/Controlling Appliance	<ol style="list-style-type: none"> <li>Wireless LAN Management/Controlling appliance for centralized configuration and management of wireless access points. The appliance should scale up to 500 access points without hardware upgrade. The controller should also have basic intrusion prevention functionality and should also authenticate wireless clients using local user database</li> <li>Bidders quoting Cisco OEM wireless controller should propose model supporting existing Cisco OEM wireless access points along with the new access points to be procured through this tender</li> </ol>	1	No.		
19	SFP Module- For Layer 3 manageable switch	GigaBit Ethernet Fibre Module for multimode fibre of 62.5/50 micron size that can extend upto 270 meters	5	Nos.		
20	SFP Module- For Layer 2 PoE manageable switches	GigaBit Ethernet Fibre Module for multimode fibre of 62.5/50 micron size that can extend upto 270 meters	5	Nos.		
21	SFP Module for Wireless LAN Management/Controlling Appliance	GigaBit Ethernet Fibre Module for multimode fibre of 62.5/50 micron size that can extend upto 270 meters	2	Nos.		
Total Amount (Inclusive of All Taxes)in Rs.						

Date:

Place:

Name and Signature  
of the agency with Seal.

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List of Documents attached by the Bidder