

**Indian Institute of Corporate Affairs**  
**Ministry of Corporate Affairs (Govt. of India)**  
**Plot No.p 6, 7 & 8, Sec. - 5, IMT Manesar, Gurgaon**

Tele: 0124-2290400

Email: [chopra.iica@gmail.com](mailto:chopra.iica@gmail.com)

**TENDER ForSupplyof NETWORKING SWICTHES at IICA, IMT MANESAR.**

Sealed tenders are invited for the Supply of NETWORKING SWICTHES to, establishing and setting up of a new network in the building at Indian Institute of Corporate Affairs, Plot No 6, 7 & 8, Sector -5, IMT Manesar, Gurgaon.

**SCHEDULE**

Last Date/Time for receipt of Bids	:	14-05-2013/3:00 PM
Date/Time of Opening of Tech Bids	:	14-05-2013/3:30 PM
Place of Opening of Bids	:	Indian Institute of Corporate Affairs Plot No –p 6, 7 & 8, Sector – 5, IMT, Manesar, Gurgaon.
Address for Communication	:	Indian Institute of Corporate Affairs Plot No – p 6, 7 & 8, Sector – 5, IMT, Manesar, Gurgaon.

**ELIGIBILITY CRITERIA FOR BIDDERS**

- A. Bidder should be a reputed firm/dealer having minimum of two years experience in the field of setting up IT/Electronics/ Electrical services.
- B. Vendor should submit its PAN, and Tax/VAT/Regis. No's, List of past and present clients to be attached.
- C. For after sales services the agency shall be available at all times and communication by Tele/E-Mail/Fax to agency shall be acknowledged immediately on the same day.
- D. Minimum experience in the line: 02 Years.

**INSTRUCTIONS FOR BIDDERS**

1. Tender should be in sealed cover as a single composite bid. All Columns in the Tender Performa shall be filled clearly.
2. All sealed envelopes shall be clearly marked with name of work and name of bidders and shall be submitted before 3:00 PM on 14-05-2013. Tenders received after due date will not be entertained.
3. The bid should be accompanied by an Earnest Money Deposit (EMD) by Demand Draft/Pay Order of Rs 10,000/- (Rupees Ten only) in favour of Indian Institute of Corporate Affairs, Payable at New Delhi, drawn on any schedule Bank. Tenders without EMD will be rejected.
4. Tenders should sign at the bottom space of all pages of tender document. The technical bid shall be opened at IICA, Manesar.
5. EMD of the successful bidder shall be forfeited in the event of withdrawal of his bid before the bid validity period on non-completion of the task.
6. EMD of unsuccessful bidder shall be returned after a decision on the tender is taken. No interest will be paid by IICA on the EMD.
7. No bidder shall contact the IICA on any matter relating to its bid, from the time of bid opening till the contract is awarded.
8. Any effort by a bidder to influence the IICA in the IICA's bid evaluation, bid comparison or contract award decisions may result in rejection of the bidders bid.
9. The notification of award will constitute the formation of the contract.
10. The Tenders submitted beyond the date and time fixed shall be summarily rejected.
11. Any postal delay or loss in transit will not bind IICA. Without assigning any reason.
12. Indian Institute of Corporate Affairs, reserves the right either to accept or reject any or all the tenders at any time prior to award of contract.

Administrative Officer

SIGNATURE OF TENDERER.....

DATE:

## **Special Conditions of Contract – ICT Integration of IICA Project Manesar**

1. The supplied components should work in the existing network set-up.
2. Bidders are requested to study compatibility and understand the existing set-up prior to bidding.

### **An Envelope with Technical Bid shall contain the following duly sealed & signed.:**

1. A brief description/profile on the bidder's firm.
2. Signed and stamped complete tender document with **unpriced** bill of quantities mentioning Make and Model Number of offered products in each category.
3. A detailed compliance statement on the specification (point wise) of the proposed solution along with deviations if any.
4. A list of full set of User Manuals, Reference Manuals etc. in the form of hardcopy and CD/DVD.
5. Detailed Support Escalation Matrix, Maintenance and SLA details.
7. **Certification/Undertaking document from the OEM for providing ongoing product and software service & support for next Five years.**
8. **Authorization to bid from all original Equipment Manufacturer.**
9. All products and solution offered should be reputed and standards brands.
10. Country of Origin and Manufacturing of each equipment should be mentioned in a separate sheet.

## **SCHEDULE A – Technical Specifications of LAN Active Switches**

**Preferred Make: Avaya Nortel**

<b>Tech Specs for 48 port Gigabit L3 Copper Switch</b>
<b>Manufacturer Model &amp; Part Code</b>
<b>Port density in each switch</b>
Minimum of 48 ports of 10/100/1000 Base-T RJ45 with auto polarity & auto speed support with 2 combo 10/100/1000-T or 1000Base-X ports
Should have dedicated stacking ports of 40 GBPS or more bandwidth
Switch should have 2 or more 10 G ports
All Ports should support 802.3atPoE+ standard
<b>Architecture &amp; Performance</b>
Non-Blocking Architecture & switching fabric
Each switch should support 184Gbps or more with non blocking architecture with minimum 101 Million pps
Support for 1000SX, 1000 LX, 1000BX, 10G SR/LR/ER
Should have support for internal Redundant Power Supply
Should have inbuilt fan cooling
<b>MAC Address Support</b>
Upto 8 K MAC address support
<b>Layer 3 features</b>
Direct L3 route entry in Hardware

like IPv4 static routes, RIP v1/V2 , OSPF from day 1
Switch should support VRRP and ECMP redundancy protocol
The switch should support both ipv4 and ipv6 in hardware. IPv6 features should not be limited to hardware support & IPv6 management, it should offer switching and management also.
<b>L2 support</b>
<b>IEEE 802.1Q VLAN 1024 active VLANs support</b>
Should support policy based Traffic Redirection
Should support Flex link or Software configurable redundant ports
Should support MAC address tracking and notification of any MAC address addition or deletion in the network
Should support minimum 64 groups of LACP 802.3ad
should support UDLD or equivalent
IGMP v1, v2, v3/ MLD v1, v2
IEEE 802.1w Rapid Spanning Tree Protocol, 802.1s Multiple Spanning Tree Protocol
<b>Management</b>
Configuration change logging per user
BootP and or TFTP Firmware upgrades Support, DHCP,DNS client
It shall be possible to add or remove a switch to the stack without rebooting all the switches in the stack
Inbuilt Web based bandwidth utilization monitoring
Should support Per command authorization via TACACS+/Radius
Should offer inbuilt mechanism for measuring frame delay and delay variance across network nodes
Should support ability to monitor CPU process and utilization percentage.

Multiple Images, Multiple Configs
Should be compatible with SNMP v1, v2, v3 base devices , SNTP with Time zone Support
Shall have Command-line interface (CLI)-based management to provide detailed out-of-band management
Shall support IPv4 & IPv6 network management tools like Ping, traceroute, BOOTP relay, DHCP, DNS, SNMP and SNTP.
Shall haveA SIC based traffic flow analysis with Netflow/Sflow/IPFIX
Shall have Remote Monitoring (RMON) software agent to support four RMON groups (history, statistics, alarms, and events) for enhanced traffic management, monitoring, and analysis
Should have management Port/RJ45 Port
<b>QOS</b>
The switch should support Policy-Based Quality of Service (QoS) at wire-speed to allocate bandwidth, and prioritize traffic
IPv6 Classification and Marking
Should support Configurable multicast session limit per port
802.1p prioritization
Should support policy based selective traffic rate limiting with Configurable bandwidth granularity of 64 KBps
802.1p/Tos/Diffserv marking and mapping
Shall provide local and remote Port Mirroring, one to one and one to many
L2, L3, L4 (TCP/UDP) traffic classification
Strict priority queuing, Weighted round-robin Queuing.
Broadcast, multicast storm control per port
8 hardware queues per port should be supported
The switch should support Jumbo frames

Ingress Policing and Egress Shaping
<b>Security</b>
Shall be TACACS+ /RADIUS enabled
Should support Private Vlans or equivalent on access and 802.1q Ports
Access profiles for telnet, ssh2, snmp
The switch should have capability to bind IP and MAC to PORT.
CPU DoS Protection & DDoS protection
Minimum 1K hardware based extended ACLS with time Based ACL Support.
Radius Authentication & Accounting, TACACS + or equivalent
Secure Shell (SSHv2) Protocol, HTTPS(SSL)
IP Route Filtering and DHCP snooping
DHCP Option 82 & Trusted DHCP Server Support
Local authentication database and RADIUS Authentication for 802.1x login
IEEE 802.1x user authentication with web based and Guest VLAN provision
Switch needs to have console port and dedicated Ethernet port for administration & management,
SNMP v2v3
Support management using CLI, GUI using Web interface (https).
Support SFTP for secure management and configuration
Should Support Port based Security
Shall have Dynamic Address Resolution Protocol (ARP) inspection with user selectable learning modes

ACLs/Filters based on source and destination MAC addresses, IP addresses or TCP/User Datagram Protocol (UDP) ports for IPv4 & IPv6
Should be able to track Windows users across the network and display the mapping between domain login username , ip address , mac address and port number
<b>Power &amp; Environment</b>
Auto-ranging 90-240VAC, 50-60 Hz
Operating Temperature Range: 0° C to 40° C (32° F to 104° F)
Operating Humidity: 10% to 90% relative humidity, non-condensing
RoHS& WEEE compliant
<b>ISO certification</b>
The OEM/manufacture should have require site industry certifications for ISO 9001 & 14000.

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<b>Tech Specs for 24 port Gigabit L3 Copper Switch</b>
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RoHS& WEEE compliant
<b>ISO certification</b>
The OEM/manufacture should have require site industry certifications for ISO 9001 & 14000.

**SCHEDULE B – PRICE – BID of LAN Active Switches**

**(in INR)**

S. No.	ITEM DESCRIPTION	UOM	Qty	Basic Cost	Taxes (Please specify %)	Freight / Packaging / Forwarding / Other Levies (If Any)	Total Unit Cost (All Inclusive)	Total Extended Amount (All Inclusive)
			(A)	(B)	(C)	(D)	(E = B+C+D)	(F) = (A) x (E)
1	SITC of 48 POE+ 10/100/1000BASE-T Layer 3 Switch, 2 x Combo Ports, Min 2 x 10 Gigabit ports , Dedicated Stacking ports (Complete As per specifications) – <b>Preferred Make - Avaya</b>	Nos.	2					
2	SITC of 24 POE+ 10/100/1000BASE-T Layer 3 Switch, 2 x Combo Ports, Min 2 x 10 Gigabit ports , Dedicated Stacking ports (Complete As per specifications) – <b>Preferred Make - Avaya</b>	Nos.	1					
3	SITC of 10GBASE-SR XFP, LC Connector (Complete As per specifications) <b>Preferred Make - Avaya</b>	Nos.	10					
<b>TOTAL AMOUNT - (in INR, in FIGURES)</b>								
<b>TOTAL AMOUNT - (in INR, in WORDS)</b>								