

NIELIT, GORAKHPUR

TERMS AND CONDITIONS

Code No : 1.0 Name of the item : Networking upgradation.
(Open tender No. : NIELIT/GKP/224/OT/01/11-12)

This tender notice shall be governed by following terms & conditions:

1. The reference No. and date of this tender notice and EMD details must be superscribed on the sealed tender envelope failing which it will not be considered. Technical and Commercial bid, duly signed by the authorized signatory, should be submitted in separate sealed envelope and both should be placed in one sealed envelope. **EMD should be placed in technical bid envelope.** Commercial bid of only those vendors shall be opened which are found technically acceptable.
2. The tender should reach DOEACC Centre, Gorakhpur on or before **03.00 p.m. of 20.02.2012.** The tenders received late shall not be considered.
3. Tenders (Technical bid only) will be opened at **03.30 p.m. on 20.02.2012** at NIELIT Gorakhpur in presence of bidders, present if any. Tenders received late shall not be considered.
4. The tender will be acceptable only from ISO 14001 certified original Manufactures or their authorized dealers/distributors. Copy of sole distributorship/Authorized dealership Certificate from manufacturing principals should accompany the technical bid otherwise tender shall be rejected.
5. Delivery/installation period and schedule of installation of system should be mentioned in the Technical bid. The delivery of items and installation to be completed within stipulated period from date of award of P.O./ signing of contract. In case of any delay in delivery/installation after delivery/installation period , not exceeding 30 days, a penalty @ 1.0% per week of the ordered amount shall be imposed. Beyond 30 days of delivery/installation period the purchase order shall be treated as cancelled without any notice, provided no extension in delivery period with or without L. D. penalty has been granted by the Director, NIELIT, Gorakhpur, and E.M.D. shall be confiscated.
6. Delivery period / execution period of work shall be maximum 04 weeks from the date of release of L.O.I / Purchase order unless otherwise specified.
7. The rates quoted should be F.O.R. NIELIT, Gorakhpur, and should be inclusive of freight/packing/forwarding charges.

8. Concessional Forms like C/D shall not be issued.
9. Complete printed literature for the items quoted should accompany the quotation, in absence of which the quotation may not be considered.
10. Copy of Income Tax Clearance Certificate with PAN No., proof of Sales Tax Registration/ VAT TIN and Experience Certificate of at least three works/supply of similar nature of item from appropriate authority should accompany the technical bid, otherwise, tender shall be rejected.
11. Quotation with overwriting, alternations will not be considered. Only typed quotations will be accepted.
12. The rates quoted have to be valid up to 6 months from the last date of submission of tender.
13. NIELIT, Gorakhpur shall be under no obligation to accept the lowest quotation.
14. Supplies not as per order or as per specifications will be rejected and returned at the cost of supplier and the EMD will be confiscated.
15. The tenderer will be required to furnish earnest money worth **Rs 40,000** to be placed in the Technical bid envelope, in the shape of crossed Demand Draft in favour of Director NIELIT, Gorakhpur or Fixed Deposit Receipts from nationalized scheduled bank duly pledged in favour of Director, NIELIT, Gorakhpur, which will be refundable within three months after completion of supply as per the purchase order and inspection, if order is awarded or within one month of finalization of order if order is not awarded or if tender is rejected. The deposit(s) should be at least for a period of six months. Without the earnest money the tender shall be out rightly rejected. Earnest money of suppliers to whom work is awarded shall be kept as security deposit till total supply as ordered is executed and it may be forfeited in case of (i) non compliance of contract/supply order(ii) incomplete supply (iii) material not supplied as per specifications.
16. Excise duty as applicable shall be paid extra against Excise Gate Pass in original . If applicable, it should be mentioned clearly in the tender.
17. Octroi and other incidentals will be paid by the suppliers.
18. Proforma invoice/bill should bear the Income Tax number and Sales Tax number / VAT TIN.

19. The Centre will pay 90% of the amount after successful execution of supply order which includes installation and operation of the software. Further operational training, if any, to our personnel has to be provided by the suppliers free of cost. Remaining 10% will be paid after one month of the satisfactory performance against Bank Guarantee for 10% of the bill value and shall have to be valid for a period of 12 months from the date of acceptance of software.
20. Warranty period shall be a period of at least **12** months. Additional warranty if provided by the parties should indicate extra charge if needed (Optionally).
21. Items damaged in transit will have to be replaced by the supplier at his own cost.
22. The rates will be considered F.O.R. NIELIT, Gorakhpur even if it is not mentioned in the quotation.
23. It will be binding on the part of the successful bidder to supply the goods at the quoted rates failing to which the name of the firm will be removed from the suppliers list and no further inquiries would be sent. Other relevant terms and conditions of this tender would also be made applicable automatically.
24. Repeat order, if necessary, will be placed within 6 months from the date of issue of purchase order and has to be executed by the supplier.
25. In case of any dispute on account of deviation of the terms and conditions, the responsibility will be of suppliers and the decision of the Director DOEACC Centre, Gorakhpur shall be binding and final.
26. Two copies of service manual/operation manual/ user manual shall have to be supplied alongwith item free of cost.
28. The Earnest Money Deposit will be refunded to the unsuccessful bidders after declaration of the successful bidder and subsequent conclusion of the Contract.
29. The firm submitting the tender should be registered with the concerned State for Sales Tax/CST/VAT TIN.
30. Proprietary Certificate should accompany in case of proprietary item, if any.
31. Details of the Taxes as applicable should be mentioned in the quotation clearly. In case of any ambiguity, prices will be considered as inclusive of all taxes.
32. All disputes lie within the jurisdiction of Gorakhpur courts.
33. The quantity of items advertised is likely to be increased or decreased or any item/items may be deleted.

34. The facility of after-sales-service must be clearly indicated along with its location. During warranty period if servicing support is not provided within 7 days, a penalty of 1% of item value per week will be imposed and recovered from bank guarantee, and NIELIT, Gorakhpur, will have the right to arrange repair/replacements at the cost and risk of the tenderer. Comprehensive AMC charges should also be mentioned in the bid beyond warranty period for a minimum period of one year.
35. The tender document is to be be down loaded from our web site "<http://www.doeaccgkp.edu.in>". The **cost of tender document must be enclosed** along with *technical bid* through demand draft in favour of Director NIELIT, Gorakhpur.
36. No quotation will be accepted by fax, e-mail, telex, or any other such means.
37. The Tender is likely to be rejected because of non-fulfillment of any of the above terms.
38. The Director, NIELIT, Gorakhpur, reserves the right to reject all or any tender without assigning any reason thereof.

Sr.Technical Officer (Stores)

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NIELIT, GORAKHPUR

TECHNICAL BID

Code No : 1.0 Name of the item : Networking Upgradation.
(Open tender No. : DOEACC/GKP/224/OT/01/11-12)

Item No.	Description	Qty.	Make offered by vendor	Complies *Yes/No
1.	<p style="text-align: center;"><u>24 Port Layer 3 Managed Switch</u></p> <p><u>Hardware details</u></p> <ul style="list-style-type: none">(1) Switch should support maximum of 24 port 10/100/1000T ports(2) Should support on-board 4 shared SFP slots to load 1000T/1000SX/1000LX/1000LHX/1000ZX/1000FX fiber ports(3) Should support additional 2 # expansion slots for loading maximum of 4 # 10G ports or 4 # 1G ports(4) Expansion slots should support to load SFP, XFP and SFP+ modules(5) Usage of expansion slots for 1G or 10G ports should not cause loss of any other ports/ features(6) Should comply to IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z and IEEE 802.3ae with auto MDI/MDX function(7) 100FX should be supported without any external media converter <p><u>Transmission and performance</u></p> <ul style="list-style-type: none">(8) Store and forward technology(9) Supports Wire speed Layer 3 non-blocking switching(10) Should support 184 Gbps switching fabric(11) Should support minimum 96 Mpps forwarding rate(12) Port mirroring(13) Remote port mirroring	01		

	<p>(14) 9k jumbo frame (15) Broadcast storm control (16) IEEE 802.3x flow control (17) Should support Broadcast/Multicast/Unicast Storm Control</p> <p><u>Stackability</u></p> <p>(18) Should be stackable in nature (19) Either hardware based or IP based clustering (20) Should support min 32 units per stack (21) Single IP management- The entire stack should be managed with Single IP Redundancy and High availability (22) LACP load balance (23) VRRP for IPv4 (24) VRRP for IPv6 (25) MRPP for ring protection (26) Redundant power supply support Spanning tree (27) IEEE 802.1d spanning tree (28) IEEE 802.1w rapid spanning tree (29) IEEE 802.1s multiple spanning tree (30) Bpdu guard and root guard Virtual LAN – VLAN (31) Should support VLAN as per IEEE 802 IQ (32) 255 LAN groups and 4K VLAN IDs (33) Port based VLAN (34) Private VLAN (35) IP subnet VLAN (36) Protocol based VLAN as per IEEE 802.1v (37) Voice VLAN (38) MAC VLAN (39) Q-in-Q (40) GVRP for Dynamic VLAN registration</p> <p><u>Multicasting</u></p> <p>(41) GMP snooping – V1/v23/v3 (42) IGMP v1/v2 v3 (43) PIM – SM (44) PIM – DM (45) PIM –SSM for IP v4 (46) MLD v1/v2 Snooping (47) MLD v1/v2</p>			
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	<p>(48) PIM –SM and PIM –DM for IP v6 (49) MSDP</p> <p><u>Link aggregation</u></p> <p>(50) IEEE 802 3ad link aggregation-LACP (51) Support 128 trunk groups and 8 ports per trunks (52) Should support both static and dynamic link aggregation (53) Should support Load balance</p> <p><u>Quality of Service</u></p> <p>(54) Should IEEE 802.Ip based QOS (55) Classification based on ACL stream, VLAN ID, COS ,IPv4 TOS precedence, IPv4 DSCP and IPv6 DSCP. (56) Granular rate limiting with limiting 64 Kbps per port (57) SP-Strict priority (58) WRR weighted round robin (59) SWRR- Combination of SP+ WRR</p> <p><u>Security</u></p> <p>(60) Sflow (61) RADIUS and TACACS+ (62) Stanfdard and Extended Access control list for both IPv4/IPv6 (63) Access control list with IP based ACL, MAC Based ACL and IP+ MAC combination based ACL (64) IP source guard (65) Anti-Dos attacks (66) IEEE 802 lx port based security (67) IEEE 802 IX and MAC based authentication and IP+ MAC+VID binding for different access clients (68) Management control by AAA and CPU processed traffic control (69) Anti ARP attack, ARP rate limit (70) Anti ICMP packet attack (71) Ring redundafncy protocol</p> <p><u>L3 Routing features</u></p>			
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	<p>(72) Ipv4/Ipv6 ready</p> <p>(73) IPv6 phase II implementation</p> <p>(74) Static routing support</p> <p>(75) RIP v1/v2</p> <p>(76) RkP ng for IPv6</p> <p>(77) BGP4 for IPv4and OSPF v3 for IPv6</p> <p>(78) BGP4 for IPv4 and BGP4+for IPv6</p> <p>(79) Policy based routing for IPv4 and tpv6</p> <p><u>IPv6 Features</u></p> <p>(80) IPv4/IPv6 Dual Protocol Stack</p> <p>(81) Internet Protocol, Versio9n 6 (IPv6) Specification (RFC2460)</p> <p>(82) ND snooping</p> <p>(83) IPv6 Univast Address Types</p> <p>(84) IPv6 Multicast Address Types</p> <p>(85) ICMPv6 for the Internet Protocol Version 6 (IPv6) (RFC2463)</p> <p>(86) ICMPv6 Redirect</p> <p>(87) IPv6 Stateless Auto Configuration as peer RFC2462</p> <p>(88) IPV6 Tunneling</p> <p>(89) IP Version 6 Addressing Architecture (RFC2373)</p> <p>(90) An IPv6 Aggregatable Global Unicast Address format (RFC2374)</p> <p>(91) Reserved IPv6 Subnet Anycast Addresses (RFC2526)</p> <p>(92) Internet Protocol Version 6 (IPv6) Addressing Architecture (RFC3513)</p> <p>(93) Transmission of IPv6 Packets over Ethernet Networks (RFC2464)</p> <p>(94) DHPv6 Server</p> <p>(95) IPv6 VLAN Registration</p> <p>(96) SNMP Over IPv6</p> <p>(97) HTTP over IPv6</p> <p>(98) SSH over IPv6</p> <p>(99) DNS over IPv6</p> <p>(100) IPv6 Ping/tracert</p> <p>(101) IPv6 Telnet Support</p>			
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	<p>(102) IPv6 DNS Resolver</p> <p>(103) IPv6 RADIUS+ Support</p> <p>(104) IPv6 Syslog Support</p> <p>(105) IPv6 SNTP Support</p> <p>(106) IPv6 NTP</p> <p>(107) IPv6 FTP/TFTP Support</p> <p>(108) IPv6 sFlow</p> <p>(109) VRRP v3</p> <p><u>MIBs</u></p> <p>(110) RFC 1213 MIB (Systems, Port information MIB)</p> <p>(111) RFC 1215 type definition</p> <p>(112) RFC 1271 RMON</p> <p>(113) RFC 1354 IP-Forwarding MIB</p> <p>(114) RFC 1493 Bridge MIB</p> <p>(115) RFC 1643 Ether – Like MIB</p> <p>(116) RFC 1724 rip2 MIB</p> <p>(117) RFC 1850 OSPF MIB</p> <p>(118) RFC 1907 SNMP v2</p> <p>(119) RFC 2011 IP/ICMP MIB</p> <p>(120) RFC 2012 TCP MIB</p> <p>(121) RFC 2013 UDP MIB</p> <p>(122) RFC 2096 ip forward MIB</p> <p>(123) RFC 2233 if MIB</p> <p>(124) RFC 2452 TCP6 MIB</p> <p>(125) RFC 2454 UDP6 MIB</p> <p>(126) RFC 2465 IPv6 MIB</p> <p>(127) RFC 2466 ICMP6 MIB</p> <p>(128) RFC 2573 SnmpV3 notify</p> <p>(129) RFC 2574 SNMPV3</p> <p>(130) RFC 2674 Bridge MIB Extensions (IEEE 802.1Q MIB)</p> <p>(131) RFC 2934 PIM</p> <p><u>Management</u></p> <p>(132) FTP/TFTP based Firmware upgrde</p> <p>(133) SSH,RMON group 1,2,3,9</p> <p>(134) DHCP server, Relay, Client</p> <p>(135) Dual Firmware support</p> <p>(136) SNMP v1/v2/v3</p> <p>(137) Should support SNMP user IP security check</p>			
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2.	<p>(138) Syslog support (139) Industrial standard CLI based management (140) Telnet management (141) Web based GUI management</p> <p><u>OEM criteria</u></p> <p>(142) All the software features should be available from day one of the purchase. (143) OEM Should have a toll free number (144) OEM Should have service center in India (145) OEM should have direct presence in India atleast for 10 Years. (146) OEM should have ISO 14001 Certificate (147) OEM should have warehouse in India.</p> <p><u>SUPPLIER / Vendors Criteria</u></p> <ul style="list-style-type: none"> • The supplier/vendors must have experience of at least 5 Years in same domain • The supplier/vendor has to configure and install the supplied items at NIELIT CAMPUS NETWORK. <p>24 Port Layer 3 Managed Fiber Switch</p> <p><u>Hardware details:</u></p> <p>(1) Switch should support maximum of 24 SFP ports for loading 1000T/1000SX/1000LX/1000LHX/ 1000ZX/1000FX fiber ports (2) Should support 12# shared 10/100/1000T ports on-board (3) Should support additional 2 # expansion slots for loading maximum of 4 # 10G ports or 4 # 1G ports (4) Expansion slots should support to load</p>	01 No.		
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	<p>SFP, XFP and SFP+ modules</p> <p>(5) Usage of expansion slots for 1G or 10G ports should not cause loss of any other ports/ features</p> <p>(6) Should comply to IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z and IEEE 802.3ae with auto MDI/MDIX function</p> <p>(7) 100FX should be supported without any external media converter</p> <p><u>Transmission and performance</u></p> <p>(8) Store and forward technology</p> <p>(9) Supports Wire speed Layer 3 non-blocking switching</p> <p>(10) Should support 184 Gbps switching fabric</p> <p>(11) Should support minimum 96 Mbps forwarding rate</p> <p>(12) Port mirroring</p> <p>(13) Remote port mirroring</p> <p>(14) 9k jumbo frame</p> <p>(15) Broadcast storm control</p> <p>(16) IEEE 802.3x flow control</p> <p>(17) Should support Broadcast /Multicast/Unicast Storm Control</p> <p><u>Stackability</u></p> <p>(18) Should be tackable in nature</p> <p>(19) Either hardware based or IP based elustering</p> <p>(20) Should support min 32 units per stack</p> <p>(21) Single IP management- The entire stack should be managed with Single IP</p> <p><u>Redundancy and High availability</u></p> <p>(22) LACP load balance</p> <p>(23) VRRP for IPv4</p> <p>(24) VRRP for IPv6</p> <p>(25) MRPP for ring protection</p> <p>(26) Redundant power supply support</p> <p><u>Spanning tree</u></p> <p>(27) IEEE 802 Id spanning tree</p> <p>(28) IEEE 802 lw rapid spanning tree</p> <p>(29) IEEE 802 ls multiple spanning tree</p> <p>(30) BPDU guard and root guard</p>			
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Virtual LAN – VLAN

- (31) Should support VLAN as per IEEE 802 IQ
- (32) 255 LAN groups and 4K VLAN IDs
- (33) Port based VLAN
- (34) Private VLAN
- (35) IP subnet VLAN
- (36) Protocol based VLAN as per IEEE 802 lv
- (37) Voice VLAN
- (38) MAC VLAN
- (39) Q-in-Q
- (40) GVRP for Dynamic VLAN registration

Multicasting

- (41) IGMP snooping – V1/v23/v3
- (42) IGMP v1/v2 v3
- (43) PIM – SM
- (44) PIM – DM
- (45) PIM –SSM for IP v4
- (46) MLD v1/v2 Snooping
- (47) MLD v1/v2
- (48) PIM –SM and PIM –DM for IP v6
- (49) MSDP

Link aggregation

- (50) IEEE 802 3ad link aggregation-LACP
- (51) Support 128 trunk groups and 8 ports per trunks
- (52) Should support both static and dynamic link aggregation
- (53) Should support Load balance

Quality of Service

- (54) Should support IEEE 802.Ip based QOS
- (55) Classification based on ACL stream, VLAN ID, COS ,IPv4 TOS precedence, IPv4 DSCP and IPv6 DSCP.
- (56) Granular rate limiting with

	<p>limiting 64 Kbps per port (57) SP-Strict priority (58) WRR weighted round robin (59) SWRR- Combination of SP+WRR</p> <p><u>Security</u></p> <p>(60) Sflow (61) RADIUS and TACACS+ (62) Standard and Extended Access control list for both IPv4/IPv6 (63) Access control list with IP based ACL, MAC Based ACL and IP+ MAC combination based ACL (64) IP source guard (65) Anti-Dos attacks (66) IEEE 802.1x port based security (67) IEEE 802.1X and MAC based authentication and IP+ MAC+VID binding for different access clients (68) Management control by AAA and CPU processed traffic control (69) Anti ARP attack, ARP rate limit (70) Anti ICMP packet attack (71) Ring redundancy protocol</p> <p><u>L3 Routing features</u></p> <p>(72) Ipv4/Ipv6 ready (73) IPv6 phase II implementation (74) Static routing support (75) RIP v1/v2 (76) RIP ng for IPv6 (77) OSPF v1/v2 for IPv4and OSPF v3 for IPv6 (78) BGP4 for IPv4 and BGP4+ for IPv6 (79) Policy based routing for IPv4 and Ipv6</p> <p><u>IPv6 Features</u></p> <p>(80) IPv4/IPv6 Dual Protocol Stack (81) Internet Protocol, Version 6 (IPv6) Specification (RFC2460)</p>			
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	<p>(82) ND snooping</p> <p>(83) IPv6 Unicast Address Types</p> <p>(84) IPv6 Multicast Address Types</p> <p>(85) ICMPv6 for the Internet Protocol Version 6 (IPv6) (RFC2463)</p> <p>(86) ICMPv6 Redirect</p> <p>(87) IPv6 Stateless Auto Configuration as peer RFC2462</p> <p>(88) IPV6 Tunneling</p> <p>(89) IP Version 6 Addressing Architecture (RFC2373)</p> <p>(90) An IPv6 Aggregatable Global Unicast Address format (RFC2374)</p> <p>(91) Reserved IPv6 Subnet Anycast Addresses (RFC2526)</p> <p>(92) Internet Protocol Version 6 (IPv6) Addressing Architecture (RFC3513)</p> <p>(93) Transmission of IPv6 Packets over Ethernet Networks (RFC2464)</p> <p>(94) DHCPv6 Server</p> <p>(95) IPv6 VLAN Registration</p> <p>(96) SNMP Over IPv6</p> <p>(97) HTTP over IPv6</p> <p>(98) SSH over IPv6</p> <p>(99) DNS over IPv6</p> <p>(100) IPv6 Ping/tracert</p> <p>(101) IPv6 Telnet Support</p> <p>(102) IPv6 DNS Resolver</p> <p>(103) IPv6 RADIUS+ Support</p> <p>(104) IPv6 Syslog Support</p> <p>(105) IPv6 SNMP Support</p> <p>(106) IPv6 NTP</p> <p>(107) IPv6 FTP/TFTP Support</p> <p>(108) IPv6 sFlow</p> <p>(109) VRRP v3</p> <p><u>MIBs</u></p> <p>(110) RFC 1213 MIB (Systems, Port information MIB)</p> <p>(111) RFC 1215 type definition</p> <p>(112) RFC 1271 RMON</p> <p>(113) RFC 1354 IP-Forwarding MIB</p> <p>(114) RFC 1493 Bridge MIB</p> <p>(115) RFC 1643 Ether – Like MIB</p>			
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	<p>(116) RFC 1724 rip2 MIB (117) RFC 1850 OSPF MIB (118) RFC 1907 SNMP v2 (119) RFC 2011 IP/ICMP MIB (120) RFC 2012 TCP MIB (121) RFC 2013 UDP MIB (122) RFC 2096 ip forward MIB (123) RFC 2233 if MIB (124) RFC 2452 TCP6 MIB (125) RFC 2454 UDP6 MIB (126) RFC 2465 IPv6 MIB (127) RFC 2466 ICMP6 MIB (128) RFC 2573 SnmpV3 notify (129) RFC 2574 SNMPV3 (130) RFC 2674 Bridge MIB Extensions (IEEE 802.1Q MIB) (131) RFC 2934 PIM</p> <p><u>Management</u></p> <p>FTP/TFTP based Firmware upgrde (132) SSH,RMON group 1,2,3,9 (133) DHCP server, Relay, Client (134) Dual Firmware support (135) SNMP v1/v2/v3 (136) Should support SNMP user IP security check (137) Syslog support (138) Industrial standard CLI based management (139) Telnet management (140) Web based GUI management</p> <p><u>OEM criteria</u></p> <p>(141) All the software features should be available from day one of the purchase. (142) OEM Should have a toll free number (143) OEM Should have service center in India (144) OEM should have direct presence in India atleast for 10 Years. (145) OEM should haver ISO 14001 Certificate</p>			
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3.	<p>(146) OEM should have warehouse in India.</p> <p><u>SUPPLIER / Vendors Criteria</u></p> <ul style="list-style-type: none"> • The supplier/vendors must have experience of at least 5 Years in same domain • The supplier/vendor has to configure and install the supplied items at NIELIT CAMPUS NETWORK. <p><u>Layer 2 24 Port Gigabit Managed stackable Switch</u></p> <p><u>Hardware details:</u></p> <ol style="list-style-type: none"> (1) Switch should support maximum of 24 SFP ports for loading 10/100/ 1000T ports. (2) Should support additional 2# 1G ports for inter switch connectivity/ Server connectivity (3) Shall support 4 SFP slots to load 1000T/1000SX/ 1000LX/1000LHX/ 1000ZX/1000FX fiber ports (4) Should comply to IEEE 802.3, IEEE 802.3u, IEEE 802.3ab and IEEE 802.3z with auto MDI/MDIX function (5) 100FX should be supported without any external media converter <p><u>Transmission and performance</u></p> <ol style="list-style-type: none"> (6) Store and forward technology (7) Should support 108 Gbps switching fabric (8) Should support minimum 96 Mbps forwarding rate (9) Port mirroring (10) 9k jumbo frame (11) Broadcast storm control (12) IEEE 802.3x flow control (13) UDLD (14) LLDP <p><u>Stackability</u></p> <ol style="list-style-type: none"> (15) Should be stackable in nature (16) Should support min 32 units per 	15 Nos.		
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	<p>stack</p> <p>(17) Single IP management- The entire stack should be managed with Single IP</p> <p><u>Virtual LAN – VLAN</u></p> <p>(18) Should support VLAN as per IEEE 802 IQ</p> <p>(19) 255 LAN groups and 4K VLAN IDs</p> <p>(20) Port based VLAN</p> <p>(21) Private VLAN</p> <p>(22) IP subnet VLAN</p> <p>(23) Protocol based VLAN as per IEEE 802 lv</p> <p>(24) Voice VLAN</p> <p>(25) MAC VLAN</p> <p>(26) Q-in-Q</p> <p>(27) GVRP</p> <p><u>Multicasting</u></p> <p>(28) IGMP snooping – v1/v2/v3</p> <p>(29) IGMP fast leave</p> <p>(30) MLD v1/v2 Snooping</p> <p><u>Spanning tree</u></p> <p>(31) IEEE 802.1d spanning tree</p> <p>(32) IEEE 802.1w rapid spanning tree</p> <p>(33) IEEE 802.1s multiple spanning tree</p> <p>(34) bpdu guard</p> <p>(35) root guard</p> <p><u>Link aggregation</u></p> <p>(36) Should support IEEE 802 1ad link aggregation-LACP</p> <p>(37) Support 32 trunk groups and 8 ports per trunks</p> <p><u>Quality of Service</u></p> <p>(38) Should support IEEE 802.Ip based QOS</p> <p>(39) Classification based on ACL stream, VLAN ID, COS ,IPv4 TOS</p>			
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	<p>precedence, IPv4 DSCP and IPv6 DSCP.</p> <p>(40) Granular rate limiting with limiting 64 Kbps per port</p> <p>(41) SP-Strict priority</p> <p>(42) WRR weighted round robin</p> <p>(43) SWRR- Combination of SP+ WRR</p> <p><u>Security</u></p> <p>(44) Sflow</p> <p>(45) RADIUS and TACACS+</p> <p>(46) Access control list with IP based ACL, MAC Based ACL and IP+ MAC combination based ACL</p> <p>(47) IP source guard</p> <p>(48) Anti-Dos attacks</p> <p>(49) IEEE 802.1x port based security</p> <p>(50) IEEE 802.1X and MAC based authentication and IP+ MAC+VID binding for different access clients</p> <p>(51) Management control by AAA and CPU processed traffic control</p> <p>(52) Anti ARP attack, ARP rate limit</p> <p>(53) Anti ICMP packet attack</p> <p>(54) Ring redundancy protocol</p> <p><u>L2+/L3 Routing features</u></p> <p>(55) Static routing support</p> <p>(56) Should support minimum 512 static routers</p> <p><u>IPv6 Features</u></p> <p>(57) IPv4/IPv6 Dual Protocol Stack</p> <p>(58) Internet Protocol, Version 6 (IPv6) Specification (RFC2460)</p> <p>(59) IPv6 Unicast Address Types</p> <p>(60) IPv6 Multicast Address Types</p> <p>(61) ICMPv6 Redirect</p> <p>(62) IPv6 Stateless Auto Configuration as per RFC2462</p> <p>(63) IP Version 6 Addressing Architecture (RFC2373)</p>			
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	<p>(64) An IPv6 Aggregatable Global Unicast Address format (RFC2374)</p> <p>(65) Reserved IPv6 Subnet Anycast Addresses (RFC2526)</p> <p>(66) Internet Protocol Version 6 (IPv6) Addressing Architecture (RFC3513)</p> <p>(67) Transmission of IPv6 Packets over Ethernet Networks (RFC2464)</p> <p>(68) DHCPv6 Server</p> <p>(69) IPv6 VLAN Registration</p> <p>(70) IPv6Multicast with MLD v1/v2 snooping support</p> <p>(71) SNMP Over IPv6</p> <p>(72) HTTP over IPv6</p> <p>(73) SSH over IPv6</p> <p>(74) DNS over IPv6</p> <p>(75) IPv6 Ping/tracert</p> <p>(76) IPv6 Telnet Support</p> <p>(77) IPv6 DNS Resolver</p> <p>(78) IPv6 RADIUS+ Support</p> <p>(79) IPv6 Syslog Support</p> <p>(80) IPv6 SNTP Support</p> <p>(81) IPv6 NTP</p> <p>(82) IPv6 FTP/TFTP Support</p> <p>(83) IPv6 sFlow</p> <p><u>MIBs</u> Should support the following MIBs</p> <p>(84) Bridge MIB</p> <p>(85) Ether-like MIB,</p> <p>(86) RFC 2011 IP/ICMP MIB</p> <p>(87) RFC 2012 TCP MIB</p> <p>(88) RFC 2013 UDP MIB</p> <p>(89) RFC 2096 ip forward MIB</p> <p>(90) RFC 2233 if MIB</p> <p>(91) RFC 2452 TCP6 MIB</p> <p>(92) RFC 2454 UDP6 MIB</p> <p>(93) RFC 2465 IPv6 MIB</p> <p>(94) RFC 2466 ICMP6 MIB</p> <p>(95) RFC 2573 SnmpV3 notify</p> <p>(96) RFC 2574 SNMPV3</p> <p>(97) RFC 2674 Bridge MIB Extensions (IEEE 802.1Q MIB)</p> <p>(98) RFC 2674 Bridge MIB Extensions (IEEE 802.1P MIB)</p>			
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4.	<p><u>Management</u></p> <p>(99) FTP/TFTP based Firmware upgrade (100) Dual firmware support (101) SNMP v1/v2/v3 (102) Should support SNMP user IP security check (103) Syslog support (104) Industrial standard CLI based management (105) Telnet management (106) Web based GUI management</p> <p><u>OEM criteria</u></p> <p>(107) All the software features should be available from day one of the purchase. (108) OEM Should have a toll free number (109) OEM Should have service center in India (110) OEM should have direct presence in India atleast for 10 Years. (111) OEM should have ISO 14001 Certificate (112) OEM should have warehouse in India.</p> <p><u>SUPPLIER / Vendors Criteria</u></p> <ul style="list-style-type: none"> • The supplier/vendors must have experience of at least 5 Years in same domain • The supplier/vendor has to configure and install the supplied items at NIELIT CAMPUS NETWORK. <p><u>Mini GBIC (SFP)1000SFX Transceiver</u></p> <p>10 Nos. for Layer 2 Switch 12 nos. for Layer 3 Switch</p>	22 Nos.		
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	<p><u>Specifications:</u></p> <p>Physical Type – IEEE 802.3z 1000 Base-SX Fiber type – Multi Mode Connector – LC Wavelength – 850 nm Distance – 550 Mtrs Operating Temperature – 0 ~ 70</p> <p><u>OEM Criteria</u></p> <ol style="list-style-type: none"> (1) All the software features should be available from day one of the purchase. (2) OEM Should have a toll free number (3) OEM Should have service center in India (4) OEM should have direct presence in India atleast for 10 Years. (5) OEM should have ISO 14001 Certificate (6) OEM should have warehouse in India. <p><u>SUPPLIER / Vendors Criteria</u></p> <ul style="list-style-type: none"> • The supplier/vendors must have experience of at least 5 Years in same domain • The supplier/vendor has to configure and install the supplied items at NIELIT CAMPUS NETWORK. 			
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NIELIT, GORAKHPUR

COMMERCIAL BID

Code No : 1.0 Name of the item : Networking upgradation.
(Open tender No. : NIELIT/GKP/224/OT/01/11-12)

Item No.	Description	Qty.	Unit Price (Rs.)	Total Price (Rs.)
1.	24 port Layer 3 Managed Switch	01		
2.	24 port Layer 3 Managed Fiber Switch	01		
3.	Layer 2 24 port Gigabit Managed Stackable Switch	15		
4.	Mini GBIC (SFP) 1000 SX Transceiver: For Layer 2 switch	10		
	For Layer 3 switch	12		

- Note: 1. Rate to be separately indicated in Rs. for items to be imported.
2. Certificate to the extent that the item is not manufactured in India be enclosed in respect of item to be imported.

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NIELIT, GORAKHPUR

TERMS AND CONDITIONS

Code No : 2.0 Name of the item : Server

(Open tender No. : NIELIT/GKP/224/OT/01/11-12)

This tender notice shall be governed by following terms & conditions:

1. The reference No. and date of this tender notice and EMD details must be superscribed on the sealed tender envelope failing which it will not be considered. Technical and Commercial bid, duly signed by the authorized signatory, should be submitted in separate sealed envelope and both should be placed in one sealed envelope. **EMD should be placed in technical bid envelope.** Commercial bid of only those vendors shall be opened which are found technically acceptable.
2. The tender should reach NIELIT, GORAKHPUR on or before 03.00 p.m. of 20.02.12. The tenders received late shall not be considered.
3. Tenders (Technical bid only) will be opened at 03.30 p.m. on 20.02.12 at NIELIT, GORAKHPUR in presence of bidders, present if any. Tenders received late shall not be considered.
4. The tender will be acceptable only from ISO14001 certified original Manufactures or their authorized dealers/distributors. Copy of sole distributorship/Authorized dealership Certificate from manufacturing principals should accompany the technical bid otherwise tender shall be rejected.
5. Delivery/installation period and schedule of installation of system should be mentioned in the Technical bid. The delivery of items and installation to be completed within stipulated period from date of award of P.O./ signing of contract. In case of any delay in delivery/installation after delivery/installation period , not exceeding 30 days, a penalty @ 1.0% per week of the ordered amount shall be imposed. Beyond 30 days of delivery/installation period the purchase order shall be treated as cancelled without any notice, provided no extension in delivery period with or without L. D. penalty has been granted by the Director, NIELIT, GORAKHPUR, and E.M.D. shall be confiscated.
6. Delivery period / execution period of work shall be maximum 04 weeks from the date of release of L.O.I / Purchase order unless otherwise specified.
7. The rates quoted should be F.O.R. NIELIT, GORAKHPUR, and should be inclusive of freight/packing/forwarding charges.
8. Concessional Forms like C/D shall not be issued.

9. Complete printed literature for the items quoted should accompany the quotation, in absence of which the quotation may not be considered.
10. Copy of Income Tax Clearance Certificate with PAN No., proof of Sales Tax Registration/ VAT TIN and Experience Certificate of at least three works/supply of similar nature of item from appropriate authority should accompany the technical bid, otherwise, tender shall be rejected.
11. Quotation with overwriting, alternations will not be considered. Only typed quotations will be accepted.
12. The rates quoted have to be valid up to 6 months from the last date of submission of tender.
13. DOEACC Centre, Gorakhpur shall be under no obligation to accept the lowest quotation.
14. Supplies not as per order or as per specifications will be rejected and returned at the cost of supplier and the EMD will be confiscated.
15. The tenderer will be required to furnish earnest money worth **Rs 7,500.00** to be placed in the Technical bid envelope, in the shape of crossed Demand Draft in favour of Director, NIELIT, GORAKHPUR or Fixed Deposit Receipts from nationalized scheduled bank duly pledged in favour of Director, NIELIT, GORAKHPUR, which will be refundable within three months after completion of supply as per the purchase order and inspection, if order is awarded or within one month of finalization of order if order is not awarded or if tender is rejected. The deposit(s) should be at least for a period of six months. Without the earnest money the tender shall be out rightly rejected. Earnest money of suppliers to whom work is awarded shall be kept as security deposit till total supply as ordered is executed and it may be forfeited in case of (i) non compliance of contract/supply order(ii) incomplete supply (iii) material not supplied as per specifications.
16. Excise duty as applicable shall be paid extra against Excise Gate Pass in original . If applicable, it should be mentioned clearly in the tender.
17. Octroi and other incidentals will be paid by the suppliers.
18. Proforma invoice/bill should bear the Income Tax number and Sales Tax number / VAT TIN.

19. The Centre will pay 90% of the amount after successful execution of supply order which includes installation and operation of the software. Further operational training, if any, to our personnel has to be provided by the suppliers free of cost. Remaining 10% will be paid after one month of the satisfactory performance against Bank Guarantee for 10% of the bill value and shall have to be valid for a period of 36 months from the date of acceptance of software.
20. Warranty period shall be a period of at least **36** months. Additional warranty if provided by the parties should indicate extra charge if needed (Optionally).
21. Items damaged in transit will have to be replaced by the supplier at his own cost.
22. The rates will be considered F.O.R. NIELIT, GORAKHPUR even if it is not mentioned in the quotation.
23. It will be binding on the part of the successful bidder to supply the goods at the quoted rates failing to which the name of the firm will be removed from the suppliers list and no further inquiries would be sent. Other relevant terms and conditions of this tender would also be made applicable automatically.
24. Repeat order, if necessary, will be placed within 6 months from the date of issue of purchase order and has to be executed by the supplier.
25. In case of any dispute on account of deviation of the terms and conditions, the responsibility will be of suppliers and the decision of the Director NIELIT, GORAKHPUR shall be binding and final.
26. Two copies of service manual/operation manual/ user manual shall have to be supplied alongwith item free of cost.
28. The Earnest Money Deposit will be refunded to the unsuccessful bidders after declaration of the successful bidder and subsequent conclusion of the Contract.
29. The firm submitting the tender should be registered with the concerned State for Sales Tax/CST/VAT TIN.
30. Proprietary Certificate should accompany in case of proprietary item, if any.
31. Details of the Taxes as applicable should be mentioned in the quotation clearly. In case of any ambiguity, prices will be considered as inclusive of all taxes.
32. All disputes lie within the jurisdiction of Gorakhpur courts.
33. The quantity of items advertised is likely to be increased or decreased or any item/items may be deleted.

34. The facility of after-sales-service must be clearly indicated along with its location. During warranty period if servicing support is not provided within 7 days, a penalty of 1% of item value per week will be imposed and recovered from bank guarantee, and NIELIT, GORAKHPUR, will have the right to arrange repair/replacements at the cost and risk of the tenderer. Comprehensive AMC charges should also be mentioned in the bid beyond warranty period for a minimum period of one year.
35. The tender document is to be down loaded from our web site "<http://www.doeaccgkp.edu.in>". The **cost of tender document must be enclosed** along with technical bid through demand draft in favour of Director, NIELIT, GORAKHPUR.
36. The detailed specifications of the goods are as per annexure(s) attached.
37. No quotation will be accepted by fax, e-mail, telex, or any other such means.
38. The Tender is likely to be rejected because of non-fulfillment of any of the above terms.
39. The Director, NIELIT, GORAKHPUR, reserves the right to reject all or any tender without assigning any reason thereof.

Sr. Tech. Officer (Stores)

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NIELIT, GORAKHPUR

TECHNICAL BID

Code No : 2.0 Name of the item : Server
(Open tender No. : NIELIT/GKP/224/OT/01/11-12)

Item No.	Description	Qty.	Make offered by vendor	Complies *Yes/No
1.	<p><u>Server</u></p> <p><u>Specifications:</u></p> <p><u>CPU:</u> Two Intel Xeon E 5630 Quad Core, 12MB Cache, 5.86GT/s</p> <p><u>Chipset:</u> Intel or better on Intel</p> <p><u>Mother board slots:</u> Minimum 5 PCI/PCI Express</p> <p><u>Memory:</u> 24GB</p> <p><u>Hard Disk Drive:</u> 5 x 300GB, 10000 RPM SAS Drive</p> <p><u>Raid Controller:</u> Yes</p> <p><u>Monitor:</u> 43.2 cm (17") TFT</p> <p><u>Video Controller:</u> To support VGA or above resolution</p> <p><u>Keyboard:</u> 101 keys keyboard</p> <p><u>Mouse:</u> Optical Mouse</p> <p><u>Bays:</u> 4 Bays (Minimum 2 Internal)</p> <p><u>Ports:</u> 3 USB Port, 1 Serial Port</p> <p><u>Cabinet:</u> Tower</p> <p><u>Certification:</u> Windows. Red Hat certified, Compliance & Support</p> <p><u>DVD ROM:</u> Combo 16x10x24 CD R/W</p> <p><u>Power Supply:</u> Redundant Power Supply</p> <p><u>Networking:</u> Dual LAN (10/100/1000) Network Card with asset feature tracking and security management, remote wake up, IPv6 Support</p>	01 No.		

Note:

1. Item with higher specification may be considered for acceptance if otherwise found suitable.
2. Rates to be separately indicated in Rs. for items to be imported.
3. Certificate to the extent that the item is not manufactured in India be enclosed in respect of item to be imported.

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NIELIT, GORAKHPUR

COMMERCIAL BID

Code No : 2.0 Name of the item : Server
(Open tender No. : NIELIT/GKP/224/OT/01/11-12)

Item No.	Description	Qty.	Unit Price (Rs.)	Total Price (Rs.)
1.	<p><u>Server</u></p> <p><u>Specifications:</u></p> <p><u>CPU:</u> Two Intel Xeon E 5630 Quad Core, 12MB Cache, 5.86GT/s <u>Chipset:</u> Intel or better on Intel <u>Mother board slots:</u> Minimum 5 PCI/PCI Express <u>Memory:</u> 24GB <u>Hard Disk Drive:</u> 5 x 300GB, 10000 RPM SAS Drive <u>Raid Controlller:</u> Yes <u>Monitor:</u> 43.2 cm (17") TFT <u>Video Controller:</u> To support VGA or above resolution <u>Keyboard:</u> 101 keys keyboard <u>Mouse:</u> Optical Mouse <u>Bays:</u> 4 Bays (Minimum 2 Internal) <u>Ports:</u> 3 USB Port, 1 Serial Port <u>Cabinet:</u> Tower <u>Certification:</u> Windows. Red Hat certified, Compliance & Support <u>DVD ROM:</u> Combo 16x10x24 CD R/W <u>Power Supply:</u> Redundant Power Supply <u>Networking:</u> Dual LAN (10/100/1000) Network Card with asset feature tracking and security management, remote wake up, IPv6 Support <u>Warranty:</u> Three years</p>	1 No.		

Note

1. Item with higher specification may be considered for acceptance if otherwise found suitable.
2. Rates to be separately indicated in Rs. for items to be imported.
3. Certificate to the extent that the item is not manufactured in India be enclosed in respect of item to be imported.

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