



भाकृअनुप-राष्ट्रीय जैविक स्ट्रेस प्रबन्धन संस्थान
बरौंडा, रायपुर, छत्तीसगढ़-493 225
ICAR-NATIONAL INSTITUTE OF BIOTIC STRESS MANAGEMENT
BARONDA, RAIPUR, CHHATTISGARH - 493 225



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F.No.- 6-04/NIBSM/2018

Dated- 18/01/2020

Tender for Hardware items for Commissioning of 100 Mbps NKN connectivity of AKMU unit office of ICAR-NIBSM, Raipur

We have a requirement of the goods & services (**Tender for Hardware items for Commissioning of 100 Mbps NKN connectivity of AKMU unit office of ICAR-NIBSM, Raipur**) as indicated below, tender for which will be opened **at 14 hrs on 10/02/2020** and you are invited to submit your most competitive quotation for the same. All the relevant details are given below:-

- i) Description of the goods required and the required quantity : (As enclosed in Annexure-I)
- ii) Guiding specification and other technical details : As enclosed in Annexure-II
- iii) Terms of delivery & installation : At ICAR-NIBSM, Baronda, Raipur – 493225 (C.G)
- iv) Delivery period of goods : Within one month from the date of the purchaser's Signing the contract
- v. Erection/installation and commissioning (if required, depending on the goods ordered) are to be completed within seven days of delivery of the goods, at **ICAR-NIBSM, Baronda, Raipur – 493 225 (C.G.)** Terms of Inspection (if required): Complete inspection and test of the equipment/item will be carried out at the Institute on delivery and before release of payment of the goods.
- vi) Training of purchaser's operator(s) for operating the goods ordered, as and if necessary is/are to be trained at purchaser's premise for successfully operating the goods purchased. The training shall be completed within reasonable time.
- vii) **Price structure:**
 - a) The tendered shall quote for the complete requirement of goods & services and for the full quantity as shown against a serial number in the List of Requirements in Annexure-I. Unless otherwise specified in Annexure-I, the tenders are, however, free not to quote against all the serial numbers mentioned in the List of Requirements (in case there are more than one serial number in the List of Requirement).
 - b) **The rates and prices quoted shall be in Indian Rupees only.**
 - c) All duties, taxes and levies payable by the supplier under the contract shall be included in the quoted prices. The purchaser will not pay such duties, taxes and levies separately. However, GST, as legally and contractually livable, may be quoted separately by indicating the nature and the current rate of GST, as applicable at the time of quoting. The GST will be paid extra at actual at the time of supply, provided the transaction of sale is legally liable of Sales Tax and the amount of the GST is contractually payable. If the supplier in its quotation does not ask for GST extra, the same shall not be paid even if it asks for the same at a later date.

- d) This Institute is entitled for availing of Custom Duty/Excise Duty Exemption in Full. Hence only Ex-Works or Ex-Factory price whichever is lower and does not include Custom Duty/Excise Duty, should be quoted for goods.
- e) The rates and prices quoted by the supplier shall remain firm and fixed during the currency of the contract and shall not be subject to variation on any account, whatsoever, including statutory variations, if any. However, GST will be paid extra as per provision under Clause viii© above.

viii) **Receipt of goods & Terms of payment:**

- a. Payment term for supply of goods, including erection/installation and commissioning (as and if applicable): Immediately on receiving the goods at site, the purchaser will verify the quantities of the items supplied as specified in the delivery challan of the supplier in terms of the contract and also check for any superficial damage etc. in the goods so supplied and issue a provisional receipt accordingly. If the goods supplied do not require erection/installation and commissioning at site, the purchaser, within three working days of issue of the provisional receipt, will issue acceptance certificate (of the goods) to the supplier, provided the goods supplied are acceptable in terms of the contract. However, if the goods supplied also need erection/installation and commissioning, the purchaser will issue acceptance certificate within two working days, after successful erection/installation and commissioning. The supplier will then send its invoice along with the purchaser's acceptance certificate and other accompanying documents to the paying authority for payment. The paying authority will release the full payment to the supplier as due in terms of the contract, within reasonable period but not more than 30 working days of receipt of supplier's invoice, purchaser's receipt certificate; and other accompanying documents, provided the same are in order.

While claiming reimbursement for GST the supplier shall furnish the following certificate duly dated and signed on its bill :

"Certified that the goods on which GST has been charged have not been exempted under the Central Sales Tax Act or State Sales Tax Act or the rules made there under and the charges on account of Sales Tax on these goods are correct under the provisions of the Act or the Rules made there under. Certified further that we are registered as dealers for the purpose of GST in the State ofunder GST shown in the bill against this contract is correct in terms of above proviso".

- b. **Payment for training of purchaser's operator(s), if applicable.**
After release of payment to the supplier as per sub-para (a) above and after successfully completion of training of the operator(s) in terms of the contract, the purchaser will immediately issue a certificate to this effect to the supplier. The supplier will thereafter send its invoice for training charges, along with the above certificate to the paying authority. The paying authority will release the payment to the supplier in terms of the contract within reasonable period but not more than 30 working days of receipt of supplier's invoice provided the invoice and accompanying documents are in order.

- ix) **Paying Authority: The Director, ICAR-National Institute of Biotic Stress Management, Baronda, Raipur.**

- x) **Liquidated Damage Clause** : If any time during the performance of the contract, the supplier encounters conditions hindering timely delivery of the goods, the supplier shall promptly inform the purchaser in writing the fact of the delay and the likely duration of the same. After receipt of supplier's communication, the purchaser shall decide as to whether to cancel the contract for the un-supplied portion after the existing delivery period, or to extend the delivery period suitably by issuing an amendment to the contract. If the supplier fails to deliver the goods and/or perform the services within the contractual delivery period for reasons other than circumstances beyond supplier's control (which will be determined by the purchaser) and the purchaser extends the delivery period, the purchaser will also deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% (half per cent) of the delivered price of the delayed goods or unperformed services for each week of delay or part thereof until actual delivery or performance. The maximum limit of such deduction will, however, be 10% (ten per cent) of the contract price of the delayed goods or services.

Further, during such delayed period of supply and/or performance, the supplier shall not be entitled to any increase in price and cost, whatsoever, on any ground. However, the purchaser shall be entitled to the benefit of any decrease in price and cost on any ground, whatsoever, of the goods & services, supplied during the period of delay. The purchaser's letter extending the delivery period will be subject to the above conditions.

- xi) **Warranty Clause**: This warranty shall remain valid for 14 (Fourteen) months after the goods or any portion thereof as the case may be, have been delivered to the final destination and installed and commissioned at the final destination and accepted by the purchaser in terms of the contract OR for 18 (eighteen) months from the date of dispatch from the supplier's works, whichever is earlier.

xii) **Dispute Resolution Mechanism**

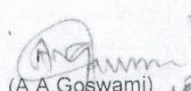
If any dispute or difference arises between the purchaser and the supplier relating to any matter connected with the contract, the parties shall make every effort to resolve the same amicably by mutual discussions. However, if the parties fail to resolve the dispute or difference by such mutual discussion within 30 days, either the purchaser or the supplier may give notice to the other party of its intention to refer the same to arbitration. The arbitration shall commence thereafter. The arbitration shall be conducted by a sole arbitrator, who will be appointed by the Secretary, ICAR and the procedure to be followed in this respect will be as per the Indian Arbitration and Conciliation Act, 1996. The venue of the arbitration shall be the place from where the contract is issued.

2. You are also required to fulfill the following conditions and furnish the details as indicated in subsequent paragraphs.
- a) At the time of awarding the contract, the purchaser reserves the right to increase or decrease by up to 25%, the quantity of goods & services as specified in the List of Requirements, without any change in the unit price or other terms & conditions.
 - b) Please furnish a certified copy of your latest ITCC (ITR form e-return) along with a copy of Permanent Account Number (PAN).
 - c) Please indicate if you are currently registered with any Govt. organization and if registered, furnish all relevant details.
 - d) Please states whether business dealings with you presently stand banned by any Government organization and, if so, furnish relevant details.
 - e) A supplier shall not submit more than one quotation for the same set of goods.
 - f) The supplier shall at all times indemnify the purchaser, at no cost to the purchaser, against all third party claims of infringement of patent, trademark or industrial design rights arising from the use of the goods or any part thereof, with respect to the goods quoted by the supplier in its offer.
 - g) The quotation(s) as well as the contract shall be written in English language. All correspondence and other documents pertaining to the quotation(s) and the contract, which the parties exchange, shall also be written in English. The quotation and all correspondence and documents relating to the quotation exchanged between the bidder and the purchaser may also be written in Hindi language provided that the same is accompanied by an English translation, in which case, for the purpose of interpretation of the quotation, the English translation shall govern.
 - h) The contract shall be governed by the laws of India and interpreted in accordance with such laws.
 - i) **The quotation/offer shall remain valid for acceptance for a period not less than 90 days after the specified date of opening of the offers.**
- 3) The quotation shall be sealed in an envelope. The envelope shall be addressed to the purchaser and it should also bear the tender enquiry no. and the words "**Tender for** (Name of the item for Printing of Institute publication) **DO NOT OPEN BEFORE**" This envelope should then be put inside another envelope, which will also be duly sealed. The outer envelope will bear the full address of the purchaser.

The supplier must ensure that its tender (i.e. quotation), duly sealed as above, reaches the purchaser at least one hrs i.e. 13.00 hrs (1.00 P.M.) on 10/02/2020 before the time and date of opening of tenders. The supplier may, at its choice, send the tender by regd. Post or by Speed post, however, **ICAR-NIBSM**, will not be responsible for any postal delay. Alternatively, the supplier may also hand deliver the tender in to the tender box available in the office of the **ICAR-NIBSM, Baronda, Raipur- 493225**

- 4) The tenders, which are received late by the purchaser will be ignored. Further, the purchaser does not accept any liability and responsibility for the tenders in case the same are not properly sealed & marked and/or sent as above.
- 5) **The tenders, which are received on time (as per para 3 above), will be opened at purchaser's office at 14.00 hrs (2.00 PM) on 10/02/2020. The purchaser will open the tenders in the presence of the tenders duly authorized representatives, who choose to attend the tender opening.**
- 6) The purchaser will evaluate and compare the quotations which are substantially responsive i.e. which are properly prepared & signed and meet the required terms, conditions, specifications etc. The purchaser will award the contract to the supplier whose quotation will be determined to be responsive and offering the best evaluated price.
- 7) Notwithstanding the above, the purchaser reserves the right to accept or reject any quotation or annul the tendering process and reject all quotations at any time prior to award of the contract, without assigning any reason, whatsoever, and without incurring any liability or obligation, whatsoever, to the affected tendered or tendered(s).
- 8) **Please submit your quotation (i.e. tender) accordingly. You shall sign all the pages of your quotation. Your price quotation may be furnished in the format enclosed as Annexure-II and as per Para-03- of this bid document (i.e. quotation/tender). You are also required to return this original tender enquiry (all the pages), along with your Bid (i.e. quotation/tender) as it is, duly signed by you on every page, for our record. You may retain a photocopy of this quotation (i.e.tender) enquiry for your record.**

Encl.: Annexure I & II


(A.A. Goswami) 18/1/20
Sr. Administrative Officer
Senior Administrative Officer
वरिष्ठ प्रशासनिक अधिकारी
NIBSM, Baronda, Raipur
रा. जे. स्टे. प्रब. सं. बरौडा, रायपुर

Specifications and other Technical details of Hardware Items For Commissioning of 100 Mbps NKN Connectivity of AKMU unit office of ICAR-NIBSM, Raipur (C.G.)

This facility will be installed in our office within allocated Budget provision of Rs. 20 lakhs.

| Sl no. | Hardware items (Detailed Specification is attached herewith) | Quantity Required (in Nos) |
|---------------|--|---|
| 1. | Router | 01 |
| 2. | Firewall | 01 |
| 3. | Switch- a. Layer 3 b. 8 port PoE | a. 01 nos b. 05 nos |
| 4. | Wireless Controller | 01 nos |
| 5. | Wireless Access Point | 35 nos |
| 6. | Network rack Rack All the Racks should be UL certified Preferably Make: NETRACK/RITTAL/VALRACK | 01 nos 05 nos |
| 7. | Fibre Cable | 06 length |
| 8. | Installations and configuration of all the hardware items with NIC Raipur and Railtel, Raipur for commissioning of NKN and Wi-Fi connectivity ON SITE At Admin building, Two Schools. | Installations and configuration and Commissioning on turn key basis. |

L3 Switch Specification Required in 01 Quantity

| | | |
|-----|--|---|
| | Preferred Makes | CISCO / TP-LINK / DELL |
| | Model: | To be indicated by bidder |
| S/N | Parameters | Detailed Requirement |
| 1 | Physical | 19" Rack Mountable Ethernet Switch |
| 2 | Architecture | Non- Blocking |
| 3 | Tx Ports | At least 24 auto negotiating 10/100/1000 Tx ports with half and full duplex capability. |
| 4 | Switching | Layer 2 and Layer 3 Switching |
| 5 | Management | Console, Telnet, SSH, SNMPv2c-v3, Web |
| 6 | Visual indication | Visual indication on the front panel of each port indicating port state (enabled / Disabled) |
| 7 | SFP port | 4 SFP / SFP+ ports for inserting 1000 base X SFP Transceivers in addition to 24 Tx ports |
| 8 | SFP's to be provided | 1 No. 1000 base LX SM transceiver to be provided. Transceiver shall be of same make as of switch |
| 9 | Resiliency Support | Must Support: IEEE 802.1s, IEEE 802.1w, IEEE 802.1x, IEEE 802.1x-Rev, IEEE 802.3af, IEEE 802.3at, IEEE 802.3x full duplex on 10BASE-T, 100BASE-TX, and 1000BASE-T ports, IEEE 802.1D STP, IEEE 802.1p CoS prioritization, IEEE 802.1Q, IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, RMON I and II standards, SNMPv1, v2c, and v3 |
| 10 | Link Aggregation | 802.3ad Link aggregation |
| 11 | Network Login | MAC & 802.1x based log in. |
| 12 | Network Security | RADIUS authentication & accounting |
| 13 | Time Synchronization | NTP / SNTP Client for updating System Time |
| 14 | Forwarding Bandwidth (Switching Speed) | 80 Gbps or Higher |
| 15 | Traffic Analysis | Netflow / Sflow / IPFIX must be available |
| 16 | IPv6 | Must Support IPv6 management. |
| 17 | Packet Throughput | 41.66 mpps or Higher |
| 18 | Port Security | MAC address based lock-down & limited learning |
| 19 | Access Control list | L2/L3/L4 IP based, Source port, Destination port, MAC based. |
| 20 | MAC address supported | 16K or Higher |
| 21 | Supported VLAN | (802.1q - tagged VLAN) -1024 or higer. It must be possible to configure L3 interface on VLAN interface. |
| 22 | Power Supply | Power Cable as per Indian Standards to be supplied |
| 23 | Warranty | Three Years Comprehensive warranty - The vendor must quote for Comprehensive Onsite warranty or else the offer shall be rejected. Manufacturing Authorisation certificate is essentially required |

8 port PoE Switches - quantity=05 Nos. for Wi-Fi AP Connectivity

| | | |
|------------|--|---|
| | Preferred Makes | CISCO / TP-LINK/ DELL |
| | Model: | to be specified by the bidder |
| S/N | Parameters | Detailed Requirement |
| 1 | Physical | 19" Rack Mountable Ethernet Switch |
| 2 | Architecture | Non- Blocking |
| 3 | Tx Ports | At least 08 auto negotiating 10/100/1000 Tx ports with half and full duplex capability. |
| 4 | Switching | Layer 2 and Layer 3 Switching |
| 5 | Management | Console, Telnet, SSH, SNMPv2c-v3, Web |
| 6 | Visual indication | Visual indication on the front panel of each port indicating port state (enabled / Disabled) |
| 7 | SFP port | 2 SFP / SFP+ ports for inserting 1000 base X SFP Transceivers in addition to 24 Tx ports or 2 Combo ports |
| 8 | SFP's to be provided | 1 No. 1000 base LX / LH SM transceiver to be provided. Transceiver shall be of same make as of switch |
| 9 | Resiliency Support | IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, IEEE 802.3ad LACP, IEEE 802.3z Gigabit Ethernet, IEEE 802.3x Flow Control, IEEE 802.1D (STP, GARP, and GVRP), IEEE 802.1Q/p VLAN, IEEE 802.1w RSTP, IEEE 802.1s Multiple STP, IEEE 802.1X Port Access Authentication, IEEE 802.3af, IEEE 802.3at, RFC 768, RFC 783, RFC 791, RFC 792, RFC 793, RFC 813, RFC 879, RFC 896, RFC 826, RFC 854, RFC 855, RFC 856, RFC 858, RFC 894, RFC 919, RFC 922, RFC 920, RFC 950, RFC 1042, RFC 1071, RFC 1123, RFC 1141, RFC 1155, RFC 1157, RFC 1350, RFC 1533, RFC 1541, RFC 1624, RFC 1700, RFC 1867, RFC 2030, RFC 2616, RFC 2131, RFC 2132, RFC 3164, RFC 3411, RFC 3412, RFC 3413, RFC 3414, RFC 3415, RFC 2576, RFC 4330, RFC 1213, RFC 1215, RFC 1286, RFC 1442, RFC 1451, RFC 1493, RFC 1573, RFC 1643, RFC 1757, RFC 1907, RFC 2011, RFC 2012, RFC 2013, RFC 2233, RFC 2618, RFC 2665, RFC 2666, RFC 2674, RFC 2737, RFC 2819, RFC 2863, RFC 1157, RFC 1493, RFC 1215, RFC 3416 |
| 10 | Forwarding Bandwidth (Switching Speed) | 20 Gbps or Higher |
| 11 | Traffic Analysis | Netflow / Sflow / IPFIX must be available |
| 12 | IPv6 | Must Support IPv6 management. |
| 13 | Packet Throughput | 14.88 mpps or Higher |
| 14 | PoE Budget | Minimum 60W |
| 15 | Safety Certifications | UL 60950, CSA C22.2, CE mark, FCC Part 15 (CFR47) Class A |
| 16 | CPU memory | 512 MB |
| 17 | Flash | 256 MB |
| 18 | Network Security | RADIUS authentication & accounting |
| 19 | Time Synchronization | NTP / SNTP Client for updating System Time |
| 20 | Power Supply | Power Cable as per Indian Standards to be supplied |

| | | |
|----|----------|---|
| 21 | Warranty | <p>Three Years Comprehensive warranty - The vendor must quote for Comprehensive Onsite warranty or else the offer shall be rejected.</p> <p>Manufacturing Authorisation certificate is essentially required</p> |
|----|----------|---|

| Firewall required in quantity-01 | | <u>Firewall Configuration</u> |
|---|---|---|
| | Preferred Makes: | PAULO ALTO / CISCO / HUAWEI |
| | Model: | to be specified by the bidder |
| S/N | Parameter | Required Specification |
| 1 | Features required | <p>Next Generation Firewall (NGFW) Advance Malware Protection (AMP) Intrusion Prevention System (IPS) Application Visibility Control (AVC) & URL Filtering Remote access VPN Collective Security Intelligence (CSI) Can be integrated with SNORT & Open App ID Clustering and High Availability Feature Identity Policy Control (IPC) & VPN Built in Network Profiling Centralized Configuration, Logging, monitoring and Reporting features On-Device Management 3 Years Hardware Warranty and Features Support</p> |
| 2 | Max. Throughput (AVC) | 250 Mbps or Higher |
| 3 | Max Throughput AVC & IPS | 125 Mbps or Higher |
| 4 | Max Concurrent sessions | 20,000 ; 50,000 or Higher |
| 5 | Max New Connections / Sec | 5,000 or Higher |
| 6 | URL Categories | 80+ or Higher |
| 7 | No. of URL's Categorized | More than 280 Millions or Higher |
| 8 | Max Stateful Inspection Throughput | 750 Mbps or Higher |
| 9 | Stateful Inspection Throughput (Multi-protocol) | 300 Mbps or Higher |
| 10 | Triple data Encryption Standard / Advanced Encryption Standard (3DES /AES) VPN Throughput | 100 Mbps or Higher |
| 11 | Users / Nodes | Unlimited |
| 12 | IP Sec site to site VPN peers | 10; 50 or Higher |
| 13 | High Availability | Device should support high availability (HA) feature |
| | <u>Hardware Features</u> | |
| 14 | USB Ports | 1 x USB 2.0 Port |
| 15 | Integrated I/O Ports | Min 8 x 1GE Ports or More |
| 16 | Dedicated Management Port | 01 dedicated management port |
| 17 | Console Port | 1 RJ45 and Mini USB Console port |
| 18 | Memory | Min 4 GB or Higher |
| 19 | System Flash | Min 8 GB or Higher |
| 20 | Solid State Drive | 50 GB mSata or Higher |

| | | |
|----|--|---|
| 21 | System Bus | Multibus Architecture |
| 22 | Power Supply type | External / Internal |
| 23 | Form Factor | Desktop / Rack Mountable |
| | <u>Administration, Authentication and General Administration</u> | |
| 24 | The proposed solution should support administration via secured communication over HTTPS, SSH and from Console | |
| 25 | The proposed solution should be able to import and export configuration backup. | |
| 26 | Warranty | Three years round the clock support & License for IPS, VPN, Gateway antivirus / spyware, Web content and application filtering & reporting with 24 x 7 Technical support and Three years hardware warranty. Manufacturing Authorisation certificate is essentially required |

| | |
|--|---|
| | <u>Wireless Access Point required in Quantity=35 nos with 01 wireless Controller</u> |
| Specification for Controller based Wireless Solution Required in 01 Quantity- | |
| Preferred Makes | CISCO / TP-LINK/ DELL |
| Parameters | Detailed Requirement |
| Standards | Must support : IEEE 802.11ac, 802.11n, 802.11g, 802.11b, 802.3af, 802.3u, 802.1X (security authentication), 802.1Q (VLAN), 802.1D (Spanning Tree), 802.11i (WPA2 security), 802.11e (wireless QoS), IPv4 (RFC 791), IPv6 (RFC 2460) |
| Ports | LAN Gigabit Ethernet auto-sensing, 10/100/1000 Ethernet, with support for 802.3af /at PoE & Power port for AC adapter |
| Cabling Type Supported | Category 5e or better |
| Antennas | Internal antennas optimized for installation on a wall or ceiling |
| LED Indicators | Min 1 multifunction LED for status Display |
| Operating System | Linux or better |
| Lock Slot | Slot for Kensington lock |
| Buttons | Reset button, Power On/Off push button |
| | in case if any hardware controller is required, it shall be provided along with the solution |
| <u>Network Capabilities</u> | |
| Netowrk features | Should have VLAN Support, SSID-VLAN Mapping, Auto-Channel selection, Spanning Tree , Load Balancing feature. |
| Number of VLANs | Should have minimum 1 management VLAN plus 8 VLANs for SSIDs |
| 802.1X supplicant | Should be 802.1x Supplicant |
| IPv6 | Should have following IPv6 Features: |

| | |
|-----------------------------|---|
| | <ul style="list-style-type: none"> ● IPv6 host support ● IPv6 RADIUS, syslog, Network Time Protocol (NTP) |
| Layer 2 | 802.1Q-based VLANs, 8 active VLANs plus 1 management VLAN |
| Management Features: | |
| Management Protocols | SNMP v3, Web Browser |
| | Remote management, Event Logging, Network Diagnostics, IPv6 Host, HTTP Direct, DHCP Client, Web Firmware Upgrade |
| Security | |
| WPA, WPA2 | WPA, WPA2, ACL, SSID Broadcast, Rogue AP detection, Secure Management, RADIUS Management and accounting. |
| Wireless Features | |
| Wireless Throughput | Up to 1.2 Gbps data rate |
| Frequency | Dual Concurrent Radios (2.4 Ghz & 5 Ghz) |
| WLAN data rates supported | 802.11 a,b,g,n/ac 2x2 MIMO with 2 spatial streams at 5 Ghz |
| Wireless Features | Multiple SSID support, WLAN Security, Fast Roaming, Wireless Distribution System (WDS), Wireless Isolation, Wireless VLAN Map, Wi-Fi Multimedia (WMM) |
| Operating modes | Access point , WDS Bridging, Workgroup Bridge Mode. |
| Other | |
| Safety Certification | UL-60950-1, CAN/CSA 22.2 No. 60950-1, IEC-60950-1, EN-60950-1 |
| Warranty | Three Years Comprehensive warranty - The vendor must quote for Comprehensive Onsite warranty or else the offer shall be rejected. Manufacturing Authorisation certificate is essentially required |

Server required in Quantity = 01.

Technical specifications

| | |
|------------------------|---|
| Preferred Makes | DELL / CISCO / IBM |
| Parameters | Detailed Requirement |
| Processor | Intel Xeon 1.7GHz or Higher |
| RAM | 16GB DDR 4 or Better |
| HDD | Minimum 2TB HDD 7.2K RPM or Better |
| HDD Slots | should support up to 8 HDD (3.5") Hot Plug HDD's |
| DVD-RW | Internal DVD Writer |
| RAID | RAID 0,1,5 (H330) |
| Power Supply | Internal, 490 Watts |
| Operating system | Microsoft Windows 2016 Server Std Edition or Latest for each core of processor |
| Form Factor | Preferably Tower Server |
| Management | 1 Dedicated Management port for Server Management |
| Warranty | Minimum 3 Years NBD onsite, OEM warranty Manufacturing Authorisation certificate is essentially required |

Router Required in Quantity=01**Technical specifications**

| | | |
|------------|---|---|
| | Preferred Makes | DELL / CISCO / IBM /HP |
| S/N | Parameters | Detailed Requirement |
| A | <u>General</u> | |
| A1 | IPV6 Compliance | All functions of the router has to be IPv6 Compliant and has to work on IPv6 platform without any additional hardware / software |
| A2 | Common Criteria Certification | The offered product series or it operating system series must have achieved Common Criteria Certification of EAL3 / NDPP or higher in the Common Criteria Certification. |
| A3 | End of Sale | OEM End of Sale Declaration shall not have been released for the quoted product at the time of bid submission |
| A4 | Os version | The Router shall be supplied with Latest OS version |
| B | <u>Hardware Specifications</u> | |
| B1 | Forwarding rate | Forwarding rate of at Least 550 Kbps for 64 byte Packet size. |
| B2 | Flash Memory | Minimum 4 GB Flash memory |
| B3 | RAM | Minimum 4 GB RAM |
| C | <u>Interface Requirement</u> | |
| C1 | Total LAN /WAN Ports | At Least 02 Nos 10/100/1000 Mbps ports |
| C2 | RJ45 Based Ports | At Least 02 Nos |
| C3 | Interface Cable | 01 No. Interface Cable of minimum 10 feet Length to be provided. |
| D | <u>Supported Standard and Protocols</u> | |
| D1 | Routing Features and protocols | The Router shall have hardware based forwarding for IPv4 & IPv6. |
| D2 | Protocol Support for IPv4 | Static Routing, RIP v1,v2, EIGRP, OSPF v2, BGP. |
| D3 | Protocol Support for IPv6 | Static Routing, RIPng, EIGRP, OSPF v3, BGP |
| D4 | Configuration backup & restore | The Router shall have the feature of backing up the configuration & restoring a backed up configuration. Support for Configuration roll back to recover the mis-configured router to last good configuration. |
| E | <u>Other Miscellaneous Requirements</u> | |
| E1 | Interface cables | Console Cable and Power Cables to be provided. All the cables should be factory-terminated. |
| E2 | Power Supply | The router shall be powered with 230VAC (+/- 10V) power Supply |
| E3 | Licensing | All the Licenses required to implement the above specified features shall be provided. |
| F | <u>Service and support Requirements:</u> | |
| F1 | OEM Warranty | The router shall be offered with Comprehensive warranty for a period of Three years. Manufacturing Authorisation certificate is essentially required |

Special instruction (if any):-

1. Interested bidder/suppliers should have to submit Bid Security of 60,000/- (Sixty thousand only) along with the quotation in the Shape of Demand Draft/FDR/BG in favour of “ICAR Unit NIBSM, Raipur.
2. The successfully bidder/supplier will have to submit the Performance Security @ 10% of the quoted value in the shape of Demand Draft or FDR/STDR/Bank Guarantee in favour of “ICAR Unit NIBSM, Raipur” before supply of the item.
3. Installation charges (if any) may also be quoted separately.
4. Any clarification/doubt regarding manufacturing of the implement by the manufacturer should be clarified beforehand so as to avoid any sort of confusion of discrepancy during the manufacturing process.
5. If readymade fabricated implement is supplied, it should meet all the specifications.
6. Address of Local Authorized dealer or Service Center.
7. Rates should be quoted including all charges for the supply up to NIBSM, Raipur including transportation, if any.
8. Manufacturer Authorization Certificate.

FORMAT OF PRICE QUOTATION

| S. N. | Description of Goods & allied Services | Specifications If any | Accounting Unit | Qty. | Quoted Unit Price in Rs. | | Total amount in Rs. |
|-------|--|-----------------------|-----------------|------|--------------------------|----------|---------------------|
| | | | | | In Figures | In words | |
| | | | | | | | |
| | | | | | | | |

Grand total Cost: Rs. -----

Details of applicable Sales Tax to be paid extra and the current rate of the same:

We agree to supply the above goods & allied services. We confirm that the same will meet the description, specification and other technical details as required in the tender enquiry.

We confirm that we agree to all other terms & conditions of your tender enquiry including the terms of delivery & installation, period of delivery and warranty provision.

We have furnished all the information, as required in the tender enquiry and attached the relevant documents. (In case a tendered desires to put some additional / modified stipulations, terms & conditions etc. the same may be clearly indicated)

We confirm that our offer will remain valid for acceptance for 90 days after the date of opening of tenders.

.....
(Signature, name and designation of the authorized executive of the tendering firm)

For and on behalf of

(Name and address of the tendering firm)

.....
(Seal of the tendering firm)

Date: