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12-9-13

TENDER DOCUMENT

[Tender Notice No.....]

Sealed quotations are invited from experienced and reputed Firms/ suppliers/ manufactures/ dealers for supply and installation of UTM and Wireless products at Chhattisgarh High Court, Bilaspur.

Name and address of Tenderer

M/s. _____

Date for receiving the Tender: up to 21/10/2013 at 04:30 P.M.

Date & Time of opening the Tender: 23/10/2013 at 01:30 P.M.

IMPORTANT NOTICE

TENDERERS RESPONDING TO THIS ENQUIRY SHALL BE DEEMED TO BE AGREEABLE TO THE TERMS AND CONDITIONS HEREIN CONTAINED. THESE TERMS AND CONDITIONS SHALL BE BINDING ON THE SUCCESSFUL TENDERER. CONDITIONAL TENDERS ARE LIABLE TO BE REJECTED. HIGH COURT WILL PROCESS THE TENDER AS PER PROCEDURES. THE REGISTRAR GENERAL HIGH COURT RESERVES THE RIGHT TO REJECT ANY OR ALL OR PART OF TENDER WITHOUT ASSIGNING ANY REASON AND SHALL ALSO NOT BE BOUND TO ACCEPT THE LOWEST TENDER. HIGH COURT WOULD NOT BE UNDER ANY OBLIGATION TO GIVE ANY CLARIFICATION TO THE AGENCIES WHOSE BIDS ARE REJECTED.

Chhattisgarh High Court, Bilaspur, is planning to deploy wireless solution for secured access by the privileged users and manage/monitor the Internet bandwidth as per the terms & conditions mentioned below.

Terms & Conditions :

- a. Unit Price must be mentioned in INR Inclusive of all taxes and transportation for delivery & installation on site.
- b. The vendor/suppliers should be an authorized partner and must provide valid VAT/TIN,OST/CST and PAN Number (photocopy **to be enclosed with Signature, date and seal**). Please attach the authorization certificate specific to this tender along with their bid.
- c. The Registrar General of this High Court will prefer to buy the solution from experienced original equipment manufacturer (OEM) who is having local office/Service Centre in Chhattisgarh. PO (Purchase Order) copies from Govt./Judicial Institutions should be attached in support of the claims. We will prefer to source the products from single OEM in order to avoid any incompatibility issue and successful deployment of the wireless system.
- d. The first time installation has to be done by original equipment manufacturer (OEM) engineer at our site. Bidders are requested to quote for best effort NBD (Nex Business Day) advance replacement during Warranty period directly from OEM.
- e. The price quoted should remain firm a period of minimum 3 months from the due date of bid submission.
- f. The materials must supply and install within four week of issue of Purchase Order.
- g. Transportation will be at Suppliers scope.
- h. The price offer through E-mail/Fax will neither be accepted nor entertained. Incomplete offer or communication after due day and time will be rejected.
- i. The price offer/envelope must be properly sealed, stamped & duly signed by the authorized person of the firm/agency and the firm should mention **"Quotation Call for supply and installation of Secured Managed**

Wireless Solution” On the top of the envelope and should be written full address with phone number in the sender's side of the envelope.

- j. 95% payment will be released after successful delivery, installation and testing of the Switch and 5% will be released after 3 months successful running of the product.
- k. **The agency/firm must sign on each page of the quotation document as published in the website as well as other relevant documents with seal & date and to be submitted.**
- l. High Court Bilaspur reserves the right to accept or reject any bid and cancel the order without any liability in case the materials are not supplied within the stipulated period and/or non-fulfillment of contractual obligation.
- m. Delivery/ installation of the store should strictly be completed within the stipulated period of delivery.
- n. The material must be properly packed against any damage and insured for transit except where hand delivery is proposed.

Bidders are requested to submit the TECHNICAL COMPLIANCE to the specification as mentioned in Annexure-1.

Bidders are requested to submit the COMMERCIAL OFFER in the below format.

SN	Descriptions	Specifications	Qty	Unit Price in Rs.	Value in Rs.
1	UTM Security Firewall with 1 year on-site support	As per annexure-1	1 no.		
1(i)	12 months IPS subscription for the above UTM	As per annexure-1	1no.		
1(ii)	12 months Gateway Anti-virus subscription for the above UTM	As per annexure-1	1 no.		
1(iii)	12 months Web Content Filtering	As per annexure-1	1 no.		

	subscription for the above UTM				
2	Unified Wireless Switch (Controller)	As per annexure-1	1 no.		
3	Managed Wireless Access Point to work with above Controller	As per annexure-1	38 nos.		
4	24-port Gigabit PoE Web Managed Smart Switch	As per annexure-1	2 nos.		
5	8-port Fast Ethernet PoE Web Managed Smart Switch	As per annexure-1	4 nos.		
6	CAT-6 UTP Cable (box of 305 mtrs)	As per annexure-1	3 boxes		
7	Laying of UTP Cable using Casing/Caping and termination	As per annexure-1	900 mtrs (approx.)		
8	One time installation, configuration and user training	As per annexure-1	Lump-sum		

Grand Total : Rs.

In words:.....

The complete offer should reach Office of the Registrar General, High Court of Chhattisgarh, Bilaspur (C.G.) before 2 PM on 21/10/2013.

308
10.09.13
(Ashok Panda)
Registrar general

ANNEXURE-1

Brief Technical Specification

Sl. No.	Brief Specification	Compliance (Yes/No)
Please mention the make/model of offered product and attach the product datasheet along with your bid		
01	<p>UTM SECURITY FIREWAL: Hardware based Unified Threat Management Appliance device having at least 6 nos. Of 10/100/1000BaseT interfaces, user configurable for LAN or WAN or DMZ, should have inbuilt VPN features, should have console port for out of band management.</p> <p>The device should have firewall throughput of at least 1.2Gbps.</p> <p>The device should have support of at least 600000 concurrent sessions & at least 15000 new sessions per second.</p> <p>The device should support static IP address, static ARP entries, PPPoE for xDSL, PPTP client for xDSL, DHCP client for WAN interface, The device should support multiple PPPoE tunnels, unnumbered PPPoE, multiple internal DHCP server instances, DHCP relay, DHCP over IPSec, static DHCP address assignment, IP NAT Pool,</p> <p>The device should support routing protocols like static routes, OSPFv2 & policy based routing,</p> <p>The device should support STP, RSTP & MSTP, 802.1q VLAN with at least 1K VLAN support, IGMPv3, DDNS client, H.323 NAT traversal, H.323 ALG & SIP ALG.</p> <p>The device should have support for Routing mode & NAT mode in layer-3 & transparent mode in layer-2</p> <p>The device should support port address translation (PAT), port forwarding, time based scheduling for policy configuration, application layer gateway (ALG)</p> <p>The device should support proactive end point security for malicious traffic detection & prevention triggered by network threshold detection, should support NIDS pattern auto update, DoS & DDoS attack protection, nimda & CodeRed attack</p>	

	<p>detection, IP black listing</p> <p>The device should support stream based technology for files, should support email securities like anti-spam feature</p> <p>Dynamic Web Content Filtering Features , should support web URL filter, Script type filter, maximum file size protection, local database URL cache,</p> <p>High Availability & Bandwidth Management Features (Should be available from first day)</p> <p>The device should support WAN failover, route failover with ICMP monitoring, active-passive HA mode, Outbound traffic load balancing, server load balancing</p> <p>The device should support policy based traffic shaping, time scheduled traffic shaping, bandwidth management in VPN tunnel, dynamic bandwidth balancing, IP based connection limit</p> <p>Management Features : The device should support console interface, Web user interface, CLI, SSH, SNTP, internal log capacity of at least 3000 records, external syslog server, real time performance monitor, event log & alarm, SNMPv1 & v2c, SNMP trap.</p> <p>The device should environmental friendly green features like low power consumption (maximum 70 Watt), low heat dissipation</p> <p>Certifications : should have ICSA certification. VPN should have VPNC certification</p>	
02	<p>UNIFIED WIRELESS SWITCH/CONTROLLER : The wireless Controller should be highly scalable and flexible platform to enable services for mission-critical wireless networking in campus environments. It should be designed for 802.11n performance</p> <p>The offered wireless Controller should be ready to manage at least 48 numbers of 802.11n dual band access points from first day. (All the necessary hardware & licenses should be provided)</p> <p>The offered wireless controller system should be upgradable (license based upgrade or adding wireless controllers into a cluster) to support about 190 access points. In case of clustering, it should support seamless roaming of wireless client within all the access points under various wireless</p>	

<p>controllers in the same cluster.</p> <p>The wireless controller should have in-built peer controller & access points discovery feature, should have support for roaming of users between Access Points managed by Controller,</p> <p>The wireless controller based solution should have support for intra-subnet (L2) & inter-subnet (L3) roaming of users from first day, controller should support CAPWAP or equivalent tunnel protocol, MSS Reduction, AP-AP tunnel enabling L3 roaming between wireless clients without traffic going back to wireless controller, wireless controller should support following features from first day: Automatic AP RF channel adjustment, automatic AP transmit output power adjustment, RF self-healing around failed AP, wireless controller should have feature of load balancing between APs based on WLAN utilization or number of users per AP,</p> <p>Access Point management features (Should be present from first day)</p> <ul style="list-style-type: none"> a) Software version auto-detection b) Centralized firmware dispatch to Access points c) Auto discovery of Access points d) Remote Reboot of Access points e) Listing of Managed, Rogue & authentication failed Access points f) Listing of clients associated with each managed Access points g) Support Local & RADIUS based Access points Authentication h) Visualized Access Points management tool i) Centralized RF/Security policy management <p>The wireless controller should have support of WMM (Wireless Multimedia) & SVP (Spectralink Voice Protocol)</p> <p>Wireless security features (Should be present from first day)</p> <ul style="list-style-type: none"> a) WEP Cipher Suite: RC4 64,128,152 bits b) WPA Cipher Suite TKIP: RC4 40-bit, MIC c) WPA2 Cipher Suite AES-CCMP: 128/256bits d) Security Mode: WEP - Open System WEP - Shared Key 	
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	<p>WEP – 802.1x (Dynamic WEP) WPA/WPA2 – Shared Key (Personal) WPA/WPA2 – 802.1x (Enterprise)" e) Rogue AP detection f) Captive Portal g) 802.11i compliant WPA2 h) Wireless Intrusion Detection System i) Rogue AP detection & mitigation, Rogue or valid AP classification based on MAC addresses j) Per radio station isolation Switching features (builtin switch/external switch) (Should be present from first day) b) Link Aggregation (802.3ad) c) LLDP & Jumbo frame support f) Static routes and OSPF should be supported g) Qos with 802.1p, strict priority queue, WRR h) Access Control List based on L2/L3/L4 parameters, VLAN, physical interface Management features (Should be present from first day) a) Web based GUI, console port, CLI, Telnet, TFTP, SNMPv1v2cv3, RMONv1 b) DHCP server, DHCP Relay, NTP/SNTP, Syslog The wireless controller should be Rack mountable with 1U height Certification: FCC Class A, VCCI, CE, C-Tick</p>	
03	<p>MANAGED WIRELESS ACCESS POINT : Single Band (2.4 GHz) or Dual band (2.4GHz & 5GHz) access point supporting IEEE 802.11b: up to 11Mbps, IEEE 802.11g: up to 54Mbps, IEEE 802.11n: up to 300Mbps 2 x 2 MIMO embedded antenna The access point should be both wall & ceiling mountable (mounting kit should be provided). At least 16nos. Of SSID support per frequency band Both DHCP client & manually configurable IP support IEEE 802.1Q VLAN tagging & dynamic VLANs support Manually configurable transmit power level adjustment QoS supporting 802.1p for enhanced throughput and better performance of time sensitive traffic like</p>	

	<p>VoIP and streaming. WMM</p> <p>Load balancing support for connecting client to access point based on AP utilization level</p> <p>Rogue AP detection using continuous channel scanning,</p> <p>Configurable as thin AP that can be managed centrally through controller</p> <p>Security Features:</p> <p>a) WEP: static WEP and Dynamic WEP</p> <p>b) WPA: WPA personal & enterprise,</p> <p>c) MAC address filtering based on local data base or radius server</p> <p>d) Station isolation: wireless client associated with the same radio cannot detect each other</p> <p>LAN interface: 10/100/1000Mbps Gigabit Ethernet port supporting IEEE 802.3af PoE standard</p> <p>Management Features:</p> <p>a) HTTP & HTTPS web based management, CLI based management with telnet or SSHv2</p> <p>b) firmware upgrade using TFTP or HTTP</p> <p>c) Syslog, SNMP, Management access control</p> <p>External RJ45 console port for out of band management. Hardware reset button for factory default setting</p> <p>Certifications: CE Class B, FCC Class B, C-Tick, IC, VCCI, WiFi, RoHS or equivalent</p>	
04	<p>24 PORT GIGABIT PoE WEB MANAGED SMART SWITCH : 24x10/100/1000BaseT PoE ports including 4xSFP slots</p> <p>IEEE 802.3af & IEEE 802.3at PoE features, Time based PoE feature</p> <p>Switching Capacity should be at least 56Gbps</p> <p>Packet Forwarding Rate should be at least 41.7Mpps for 64-byte packet size</p> <p>The switch should have non-blocking architecture & wire-speed performance under fully loaded condition from first day</p> <p>The switch should have intelligent fans with sensor that provides different fan speed based on different temperature. It should have hardware reset button</p> <p>The Switch should have following L2 features from first day</p>	

	<p>MAC Address Table size: at least 16000, support at least 256 static MAC</p> <p>Flow Control: IEEE 802.3x in full duplex, back pressure in half duplex & HoL blocking prevention</p> <p>IGMP v1 v2 with at least 256 IGMP snooping groups, Per VLAN IGMP Snooping, port based IGMP snooping fast leave.</p> <p>IEEE802.1D STP, 802.1w RSTP, should be able to avoid the loop occurring in a single port connected to an unmanaged switch/hub by shutting down the corresponding port or corresponding VLAN</p> <p>IEEE 802.3ad Link Aggregation . Port mirroring for Tx/Rx/Both. One-to-One mode, Many-to-one mode</p> <p>IEEE 802.1Q VLAN, at least 4000 Static VLANs, 256 Dynamic VLANs Groups, asymmetric VLAN</p> <p>The switch should have 802.1p support with 4 queues per port. Support strict & WRR queue handling technique.</p> <p>The switch should have Port-based ingress & egress bandwidth control with minimum granularity of at least 64kbps</p> <p>The switch should have support for Access control list</p> <p>The switch should have the following security features from fist day : SSLv3, Broadcast/Multicast & Unicast storm control, port security feature, traffic segmentation, ARP spoofing prevention, IEEE 802.1x, DHCP server screening</p> <p>The switch should have feature to protect the CPU from protocol control packet attack.</p> <p>"The Switch should have following Management features : Web-based GUI, CLI, Telnet Server, TFTP Client, SNMPv1v2cv3, SNMP trap, BootP/DHCP Client, Sntp, trusted host, debug command, RMONv1, Syslog. "</p> <p>The switch should have Energy saving green technology</p> <p>The switch should have be IPV6 compliant.</p> <p>The switch should be 1U height</p> <p>The switch should be RoHS compliant & should have following certifications: FCC Class A, CE Class A, VCCI Class A, C-Tick or equivalent</p>	
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05	<p>8 PORT FAST ETHERNET PoE WEB MANAGED SMART SWITCH :</p> <p>8 x 10/100BaseT PoE ports</p> <p>IEEE 802.3af PoE features, Time based PoE feature</p> <p>Switching Capacity should be at least 1.6 Gbps</p> <p>Packet Forwarding Rate should be at least 1.19 Mpps for 64-byte packet size</p> <p>The switch should have non-blocking architecture & wire-speed performance under fully loaded condition from first day</p> <p>The switch should have intelligent fans with sensor that provides different fan speed based on different temperature. It should have hardware reset button</p> <p>The Switch should have following L2 features from first day</p> <p>MAC Address Table size: at least 8000, support static MAC</p> <p>Flow Control: IEEE 802.3x in full duplex, back pressure in half duplex & HoL blocking prevention</p> <p>IGMP v1 v2 with at least 256 IGMP snooping groups, Per VLAN IGMP Snooping, port based IGMP snooping fast leave.</p> <p>IEEE802.1D STP, 802.1w RSTP, should be able to avoid the loop occurring in a single port connected to an unmanaged switch/hub by shutting down the corresponding port or corresponding VLAN</p> <p>IEEE 802.3ad Link Aggregation . Port mirroring for Tx/Rx/Both. One-to-One mode, Many-to-one mode</p> <p>IEEE 802.1Q VLAN, at least 4000 Static VLANs, 256 Dynamic VLANs Groups, asymmetric VLAN</p> <p>The switch should have 802.1p support with 4 queues per port. Support strict & WRR queue handling technique.</p> <p>The switch should have Port-based ingress & egress bandwidth control with minimum granularity of at least 64kbps</p> <p>The switch should have support for Access control list</p> <p>The switch should have the following security features from first day : SSLv3, Broadcast/Multicast & Unicast storm control, Port security, traffic segmentation, ARP spoofing prevention, IEEE</p>	
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	<p>802.1x, DHCP server screening</p> <p>The switch should have feature to protect the CPU from protocol control packet attack.</p> <p>"The Switch should have following Management features : Web-based GUI, CLI, Telnet Server, TFTP Client, SNMPv1v2cv3, SNMP trap, BootP/DHCP Client, SNTP "</p> <p>The switch should have Energy saving green technology</p> <p>The switch should be 1U height</p> <p>The switch should have following certifications: FCC Class A, CE Class A, VCCI Class A, C-Tick or equivalent</p>	
06	CAT-6 UTP CABLE (box of 305 mtrs), UL listed ETL verified 23 AWG bare copper cable	
07	UTP CABLE LAYING using Casing Capping material, termination of cable at both ends with RJ-45 connectors	
08	One time installation and configuration of all the products and training to system administrators on operation and maintenance of the entire system	


 (Ashok Panda)
 Registrar general