



Ref no: ICTS/TIFR/RFQ/65/2017-18

Date: 19 January 2018

ENQUIRY

To,

Dear Sir,

Subject: Enquiry for the Supply & Installation of Advanced Firewall router.

Please let us have your lowest Quote for the following.

Sl. No	Item Description	HSN/SA C Code	Qty	Rate per unit Rs.	Amount Rs.
1.	<p>Supply and installation of advanced firewall router with IDS, IPS, and BGP load balancing with the specification of make Fortigate 500E or equivalent</p> <p><u>1. General</u></p> <p>1.1 Security solution must be appliance based without any user based licensing with UTM / NGFW VPN features inbuilt.</p> <p>1.2 All devices as part of the solution must be from single OEM to avoid future support complexity.</p> <p>1.3 Technical assistance support should be available for 24x7x365 days</p> <p><u>2. Performance Features requirements.</u></p> <p>2.1. Security appliance should have a minimum throughput of 15 Gbps in real-world production environment</p> <p>2.2. Should support at least 10 Million concurrent sessions 2,00,000 New sessions/sec</p> <p>2.3. The firewall should do stateful inspection must also support asymmetric routing if required</p> <p>2.4 Should support Policy-based routing, RIP, OSPF BGP routing protocols</p> <p>2.5 Multicasting must be supported in device</p> <p>2.6 It should load balance support automated Failover for 3 ISP's or more.</p> <p>2.7 Security solution must support IP, User Device based policies.</p> <p>2.8 Security solution must integrate with Open LDAP, Radius, AD for user-based policy.</p> <p>2.9 Security solution should support virtual system/router supports from day 1</p> <p>2.10 Should support Active-Active Active-standby when deployed in HA.</p> <p>2.11 Should provide minimum Real world Next-Generation</p>		1 Lot		





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	<p>Firewall throughput of 4 Gbps with Firewall, Application Control IPS enabled.</p> <p>2.12 Should provide minimum Threat prevention throughput of 4 Gbps (Real world traffic) after enabling all features mentioned as part of the security solution</p> <p><u>3. Hardware Architecture</u></p> <p>3.1 Security solution must have at least 6 x1G SFP, 6 xGE RJ45 2 x10G SFP interfaces from day1.</p> <p>3.2 Security solution should be loaded with dual hot-swappable power supply from Day1</p> <p><u>4. VPN</u></p> <p>4.1 Security solution must have VPN throughput of 10 Gbps or more.</p> <p>4.2 Security solution must support IPSec & SSL VPN.</p> <p><u>5. Anti-Virus Anti-BOT capabilities</u></p> <p>5.1 Security solution must have Gateway Antivirus features in it which must support scanning for protocols such as SMTP/SMTPs, POP/POPs, HTTP/HTTPs.</p> <p>5.2 It should be capable to detect & prevent virus such as Trojan, malwares, malicious data etc. at gateway level.</p> <p>5.3 Security solution must offer anti-bot capabilities from day1. Add required licensing cost if it is an additional module.</p> <p>5.4 Security solution must analyze BOT applications from client machines & must block all connections to C&C center</p> <p><u>6. Web-Content filtering</u></p> <p>6.1 Security solution should support URL & Category based web-sites filtering over http/https protocols.</p> <p>6.2 Security solution must understand websites of different languages & rate them.</p> <p>6.3 It must support option to override the URL/category on User/User-group basis.</p> <p><u>7. Application-Control</u></p> <p>7.1 Should be able to identify & control all commonly used web 2.0 applications & should be bale to detect minimum 2500 applications.</p> <p>7.2 It must support applications such as Torrent, P2P, Botnets, Games, Social networks irrespective of their websites.</p> <p>7.3 Security solution should support to create custom application signatures.</p>				
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	<p>8. IPS</p> <p>8.1 Security solution must have real world IPS throughput of 5 Gbps or more</p> <p>8.2 It should support atleast 5000+ signature Data Base for IPS</p> <p>8.3 Security solution must have provision to create custom signatures for IPS</p> <p>9. Management</p> <p>9.1 Security solution must be fully managed by Web browser or via client with full options to configure Routing, Policies, address object & UTM profiles</p> <p>9.2 Analyzing network traffic with real time dashboard must be available within Security solution/management it self</p> <p>9.3 Security solution must support Https, ssh, telnet, SNMP based management</p> <p>9.4 Solution should include two factor authentications for firewall administrator. Two factor authentications should be provided for a minimum of 2 users from day 1</p> <p>10. Logging reporting</p> <p>10.1 Solution must have atleast 1 TB log retention for 1 year from day 1.</p> <p>10.2 Solution must be a external device and not included in FW.</p> <p>10.3 Proposed solution must be from the same OEM as suggested for Firewall / router for seamless integration of the product.</p> <p>10.4 The solution should have capability to identify infected, critical, suspicious endpoints in the network and alert the administrator.</p> <p>11. Installation:</p> <ul style="list-style-type: none"> • OEM/Vendor has to configure the router as per ICTS requirement <p>Note: Please mention Make & Model</p>				
2.	Optional 4th & 5th Year Warranty				
	Sub Total				
	Add: GST				
	Total Amount in Rupees				



Terms & Conditions:

The center being public funded research institution is entitled for GST @ 5% vide notification No. 47/2017-Integrated Tax (Rate) dated 14-11-2017. Necessary Certificate will be provided along with the order.

The bids/ quotation addressed to “**International Centre for Theoretical Sciences – TIFR**”. **Please do not send your quotation by email or by fax. Alternatively, you can send it by hand delivery/courier.** You are requested to superscribe our enquiry number and due date on the envelope.

All duties, taxes, surcharge and cess as currently applicable must be stated in your quotations, separately. Otherwise your quote is liable to be rejected.

- 1) **DUE DATE FOR SUBMISSION OF QUOTATIONS AGAINST THIS ENQUIRY IS 05/02/2018 till 15.00 Hours.**
- 2) **QUOTATIONS RECEIVED AFTER THE DUE DATE SHALL BE REJECTED.**
- 3) Bidder may quote in USD for better price benefit to ICTS.
- 4) All rates and total amount should be written both in figures and in words and if there is any discrepancy between the two, the lowest amount will only be accepted.
- 5) The installation site will be ICTS campus, Shivakote, Bangalore-560089.
- 6) The Vendor chosen will have to deliver the equipment within 8 weeks of issuance of purchase order and commission them within 2weeks from the date of delivery.
- 7) **PERFORMANCE B/G:** The successful bidder shall have to execute a performance B/G in accordance with the guarantee/warranty for 10% value of the order. This B/G has to be executed on an appropriate value of stamp paper in terms of a bank guarantee drawn on any Nationalised Bank or first class Foreign Bank and shall remain valid till the completion of the Defect Liability period/warranty period, with 6 months claim period.
- 8) The Validity of your quotation should be for 60 days from the date.
- 9) **Liquidated damage:** In case the item is not supplied within the agreed delivery schedule and after a grace period of 07 days, then liquidated damages will be imposed automatically and will be deducted from the bill of the vendor at the rate of 0.5% per week, subject to a maximum of 10% of the order value.
- 10) **Payment:** within 15 days after delivery, acceptance & satisfactory installation.
- 11) Any dispute or differences that may arise between the parties shall be referred to the sole arbitration of the Centre Director or his nominees. The decision of the arbitrator shall be final and binding on the parties. The venue for arbitration shall be Bangalore. The provisions of the Arbitration and Conciliation Act, 1996 as amended from time to time shall apply. The Courts in Bangalore shall have exclusive jurisdiction to deal with any or all disputes between the parties.

For and on behalf of International Centre for Theoretical Sciences-TIFR

Authorised Signatory