

Due date for submission of Tender: **23.01.2023** Date of Opening of Technical Bid: **24.01.2023**

The Raman Research Institute invites sealed Tenders for supply of **Supply, Installation, Testing and Commissioning of Next-Generation Firewall** directly from the manufacturers or their authorized agents adhering to the terms and conditions given below:

Features/ Specifications:

Sl. No.	Specification / Feature / Item Description
1	Security solution must be appliance based without any user-based licensing with AntiVirus, Web Filtering, QOS, Application Control, IDS, IPS, SSL + IPSEC VPN, BGP load balancing features inbuilt.
2	The proposed NGFW must protect from known and unknown attacks using dynamic analysis and provide automated mitigation to stop attacks.
3	The OEM should have published all the performance mentioned on the corporate public website.
4	Security appliance should have a minimum throughput of 60 Gbps IPv4 and IPv6 firewall throughput
5	Should support at least 7 Million concurrent sessions & 500K new sessions/sec
6	The firewall should do stateful inspection & must also support asymmetric routing if required
7	Should support Policy based routing, RIPv1 and v2, OSPF v2 and v3, ISIS, BGP4
8	Multicasting must be supported in device
9	It should load balance & support automated Failover for 3 ISP's or more
10	Security solution must support IP, MAC User based policies
11	Security solution must integrate with Open LDAP, Radius, AD for user-based policy
12	Should support Active-Active & Active-standby when deployed in HA
13	Should provide minimum Real world Threat Prevention Firewall throughput of 8 Gbps with Firewall, Application Control, anti-Malware & IPS enabled measured with (Real World / Enterprise Mix)
14	Security solution should have comprehensive security controls on SSH Man-in-the-Middle (MITM) deep inspections. Like IPS Inspection on tunnelled traffic and detect / prevent MITM attach etc.



15	Security solution must have the following support for IPv6: Management over IPv6, IPv6 routing protocols, IPv6 tunnelling, firewall and UTM for IPv6 traffic, NAT46, NAT64, IPv6 IPsec VPN
16	Security solution must have a minimum of 8 x 1G SFP and 16 x 1GE RJ45 from day 1 with 4 x 1G SFP modules
17	Security solution must have a minimum of 8 x 10G SFP+ with 4 x 10G SFP+ modules from day 1
18	Security solution must have dedicated console port RJ45 and 1 x USB Port
19	Security solution should be installed with dual hot-swappable power supply from day 1
20	Security solution must have the capability to virtualize one physical firewall into multiple virtual firewalls
21	Security solution must have minimum VPN throughput of 40 Gbps or more
22	Security solution must support IPsec & 5000 SSL VPN. With necessary licenses from day 1
23	Should support the following IPSEC VPN deployment modes: Gateway-to-gateway, hub-and-spoke, full mesh, redundant-tunnel, VPN termination in transparent mode,
24	Solution should have MAC host check per portal for SSL VPN
25	Security solution must support following OS (MAC OSX, Linux, Windows operating systems) while connecting to office using SSL VPN.
26	Security solution must have Gateway Antivirus features in it which must support scanning for protocols such as SMTP/SMTPs, POP/POPs, HTTP/HTTPs
27	It should be capable to detect & prevent virus such as Trojan, malwares, malicious data etc. at gateway level
28	Security solution must offer anti-bot capabilities from day1. Add required licensing cost if it is an additional module
29	Security solution must analyze BOT applications from client machines & must block all connections to C&C center
30	Security solution should Detect unknown attacks using dynamic analysis and provides automated mitigation to stop targeted attacks.
31	Security solution should support be capable to remove exploitable content and replace it with content that is known to be safe. (CDR)
32	Security solution should have capability of virus outbreak Detection and prevention using checksums to filter files
33	Security solution should Consist 200 Million URLs under 75+ Categories based websites filtering over http/https protocols by default excluding Custom URL / Category
34	Security solution must understand websites of different languages & rate them



35	It must support option to override the URL/category on User/User-group basis
36	Security solution should support External Web Filter dynamic black lists which could be hosted on an HTTP server
37	Should be able to identify & control all commonly used web 2.0 applications & should be able to detect minimum 2500 applications
38	It must support applications such as Torrent, P2P, Botnets, Games, Social networks irrespective of their websites
39	Security solution should support to create custom application signatures
40	Security solution should have capability to protect critical applications by enforcing granular application usage with traffic shaping
41	Security solution must have IPS throughput of 10 Gbps or more (measured with real world traffic mix)
42	Security solution must have provision to create custom signatures for IPS
43	Security solution must have the following minimum IPS controls for detection and prevention of drive-by exploits detection, Replacement message, fail-open, protocol decoders, signature rate count threshold and geography location filters
44	IPS must have capability to define filters based on Severity, target, OS, application, and/or protocol
45	Security solution should be fully and centrally managed and allow deployment and enforcement of security policies, routing policies, etc.
46	Analyzing network traffic with real-time dashboard should be available within the security solution.
47	Security solution should support HTTPS, SSH, SNMP based management
48	Security solution should have a log analyser system. Log Management system should have minimum 25GB/Day logging capacity. The proposed solution should be from the same OEM as the Firewall for seamless integration of the product.
49	Security solution should have atleast 1TB log retention for 1 year from day 1
50	5-year comprehensive NBD 24x7x365 OEM warranty



Other mandatory technical requirements and conditions:

1. All required accessories and licenses, including the ones mentioned in the above description, to complete the installation should be accounted for and included in the bid.
2. The NGFW should be configured and fine-tuned as per RRI's requirement by the OEM or the bidder.
3. Make, model number, configuration of the quoted NGFW should be listed in the technical bid.
4. Datasheet of the NGFW should be included in the technical bid.
5. Detailed BOM/BOQ and Compliance statement for the NGFW should be included in the technical bid.
6. Upon supply, a document made on the letter head of the OEM stating that the OEM shall undertake to provide five year back-to-back comprehensive, on-site warranty, support, software updates and firmware updates, access to the support portal for the Next-generation Firewall, with serial number of NGFW, sold through the bidder.

Eligibility Criteria:

1. The bidder should have experience in the IT Infrastructure services in India for a minimum period of 5 years. A proof should be attached.
2. A letter stating that the bidder is an authorized channel partner, reseller of the principal should be attached.
3. Manufacturer's Authorisation Form (MAF) for the quoted product should be included in the bid.
4. Details with contact information and telephone numbers for service support of the quoted product should be provided. Escalation matrix with contact information and telephone numbers should also be provided.
5. The bidder must not be blacklisted by Central Government, State Government or any Organization in India. A certificate or undertaking to this effect must be submitted.
6. I) As per the Government of India, Ministry of Commerce and Industry and Department for Promotion of Industry and Internal Trade (Public Procurement Section) Order No. P-45021/2/2017-PP (BE-II) dated 04 June 2020
 - a) The Bidder shall produce a certificate whether he/she belong to "Class – I" and 'Class



- II supplier' and Non – Local suppliers.
- b) Class – I' and 'Class – II supplier' and Non – Local suppliers as classified under above mentioned Order are eligible to submit the offer. While finalising the quotation, the instructions given in the above order shall prevail.
- II) As per the Government of India, Ministry of Finance and Department of Expenditure, Public Procurement Division – Office Memorandum No. F.No.6/18/2019-PPD dated 23.07.2020, the Institute reserves the right by order in writing, impose restrictions, including prior registration and/or screening, on procurement from bidders from a country or countries, or a class of countries, on grounds of defence of India, or matters directly or indirectly related thereto including national security; no procurement shall be made in violation of such restrictions.

EVALUATION OF BIDS:

- The bids conforming to the eligibility criteria will be considered for further evaluation.
- The bids will be shortlisted on the basis of technical parameters, features, standards compliance of all materials and equipments used, etc.
- For Technical evaluation, bidders have to ensure the availability of appropriate expert, along with every type of documentation from their organization for interacting with the Institute



OTHER TERMS AND CONDITIONS:

The Institute is eligible to issue Central Excise Duty Exemption Certificate or Customs Duty Concession Certificate. The Institute is not eligible to issue State Goods and Service Tax/ Central Goods and Service Tax Concession Certificate.

1. The quotation shall be divided into two parts:
 - I) The first part should be “Technical” Bid containing only detailed specifications for tendered **Supply, Installation, Testing and Commissioning of Next-Generation Firewall** The details include:
 - a) Detailed literature including Data Sheets of quoted products
 - b) Supporting Documents as per the Eligibility Criteria.
 - c) The first part (Technical Bid) shall not contain any financial aspects of the offer. It shall contain only a cross reference to the second part (Financial Bid).
 - II) The Second part (Financial Bid) shall contain detailed financial outlay with List of deliverables / Bill of materials / Bill of Quantities and services, unit price of items as in the technical bid (i.e., First Part).
2. The quotations should be complete in all respects and the details specified in this request should be adhered to and **submitted on or before 23.01.2023** and the Bid will be **opened on 24.01.2023 at 4.00 PM**
3. Quotations should be valid for **180** days from the due date.
4. EMD of **Rs. 70,000.00** should accompany the tender enclosed along with the technical bid (envelope). Payment should be by way of DD / Banker’s cheque only, drawn in favour of “**Raman Research Institute, Bengaluru**”. No other form of payment will be accepted. The Tenders without the EMD will be rejected.
5. The MSME Units/Enterprises claiming exemption of EMD should submit MSME UDYOG AADHAAR MEMORANDUM or registration certificate issued by District Industries Centre (DIC) / Khadi & Industries board (KVIB) / Coir board / National Small Industries Corporation (NSIC) / Directorate of Handicrafts and handlooms or any other body specified by Ministry of MSME. The memorandum / certificate submitted should be for the scheduled items of this tender and shall be valid as on due date /extended due date of the Tender. However, MSME Unit/Enterprises must submit a duly signed Bid Security Declaration in lieu of EMD as per the Form of Bid-Security Declaration.
6. EMD of successful tenderer will be returned / adjusted on satisfactory completion of order.
7. The refund of EMD for unsuccessful tenderers will be made through Cheque or Electronic mode within a month after expiration of the Bid Validity period or any extension to it.
8. The Financial Bids will be opened only for those technical bids found suitable and approved by our technical evaluation committee.
9. Unit price should be mentioned, which is inclusive of all applicable discounts. Taxes and other levies should be indicated separately.
10. The Institute reserves the right to modify the technical specification or the required quantity at any time but within one week before the due date and will be notified in the Institute website.



11. The Institute reserves the right to reject any or all of the quotations received without assigning any reason. It also reserves the right to accept an offer other than the lowest.
12. The final order quantity can be lower or higher than that mentioned in the request.
13. **Security Deposit:** On award of the work, the bidder shall provide **3%** (Three percent) of the order value as Security Deposit in the form of a Bank Guarantee towards satisfactory performance. The PBG should be valid through-out the period of completion of work and the warranty period plus six months as claim period. The said Security Deposit shall be refunded to the vendor after satisfactory completion of the purchase order placed as well as warranty period as per the terms of Purchase Order. In case of failure to render the contracted service, either at the time of execution or during the warranty period or non-compliance of due performance of contract, the Security Deposit will be forfeited.
14. **Warranty:** The Charges for Five (5) years back-to-back Comprehensive on-site warranty, software support and firmware updates, access to the support portal for all the products, with serial number of each component supplied, with Next Business Day response time, including the Standard Warranty should be indicated.
15. **Test Certificates:** On completion of installation test certificates are to be provided by the Vendor, countersigned by the certified supervisor under whose direct supervision the installation was carried out.
16. The Institute reserves the right to postpone/extend the due date for submission of the quotation without assigning any reason.
17. All deliveries should be completed within the stipulated delivery time of the purchase order due date. While the Institute reserves the right not to accept delivery in part or full, beyond the due date of delivery, liquidated damages at 0.5% per every week of delay will be levied. Exceptions: Force Majeure.
18. Delivery of goods should be made at our stores located on campus near Mekhri Circle, Bengaluru – 560 080, at suppliers cost and risk.
19. The Institute reserves the right to call potential suppliers for technical discussions and product demonstrations.
20. Any Technical clarification required towards submission of offer may please be mailed to purchase@rri.res.in
21. All disputes, arbitration, if any are subject to jurisdiction of courts in Bengaluru only.



CHECKLIST

SELF ATTESTED COPIES OF THE FOLLOWING DOCUMENTS SHOULD BE SUBMITTED ALONG WITH TECHNICAL BID, FAILING WHICH THE TENDERS ARE LIABLE TO BE REJECTED

SL. NO	CRITERIA / SPECIFICATION / CONDITION	YES / NO
1.	The bidder should have experience in the IT Infrastructure services in India for a minimum period of 5 years. A proof attached.	
2.	A letter stating that the bidder is an authorized channel partner, reseller of the principal attached.	
3.	Manufacturer's Authorisation Form (MAF) for the quoted product should be included in the bid.	
4.	Details with contact information and telephone numbers for service support of the quoted product should be provided. Escalation matrix with contact information and telephone numbers should also be provided.	
5.	The bidder must not be blacklisted by Central Government, State Government or any Organization in India. A certificate or undertaking to this effect must be submitted.	
6.	EMD of Rs. 70,000.00 accompanied the tender enclosed along with the technical bid (envelope). Payment by way of DD / Banker's cheque only, drawn in favour of " Raman Research Institute, Bengaluru ".	
7.	Quotations valid for 180 days from the date of opening.	
8.	<p>(I) As per the Government of India, Ministry of Commerce and Industry and Department for Promotion of Industry and Internal Trade (Public Procurement Section) Order No. P-45021/2/2017-PP (BE-II) dated 04 June 2020</p> <p>a. The Bidder shall produce a certificate whether he/she belong to "Class – I' and 'Class – II supplier' and Non – Local suppliers.</p> <p>b. Class – I' and 'Class – II supplier' and Non – Local suppliers as classified under above mentioned Order are eligible to submit the offer. While finalising the quotation, the instructions given in the above order shall prevail.</p> <p>(II) As per the Government of India, Ministry of Finance and Department of Expenditure, Public Procurement Division – Office Memorandum No. F.No.6/18/2019-PPD dated 23.07.2020, the Institute reserves the right by order in writing, impose restrictions, including prior registration and/or screening, on procurement from bidders from a country or countries, or a class of countries, on grounds of defence of India, or matters directly or indirectly related thereto including national security; no procurement shall be made in violation of such restrictions</p>	



FORM OF BID-SECURITY DECLARATION

[The Bidder should fill in this Form on Letter Head in accordance with the instructions indicated]

To

The Administrative Officer (i/c)
Raman Research Institute
C.V. Raman Avenue, Sadashivanagar,
Bangalore – 560 080.

Ref: Tender document No. **NIT – PR – 221848 dated 02.01.2023**

We, the undersigned declare that:

We know that the bid should be supported by a Bid Security Declaration in accordance with your conditions.

We hereby declare that the prices offered by us against RRI Tender Document No **NIT – PR – 221848 dated 02.01.2023** for **Supply, Installation, Testing and Commissioning of Next-Generation Fire Wall** will be firm for a period of 180 days or the date when the tenders are finalised, whichever is earlier.

We accept to automatically be suspended from being eligible for bidding in any contract in RRI for a period of 3 years from the date of opening of Bid. If we are in breach of our obligation(s) under the bid conditions, because we:

After having been notified of the acceptance of our bid by the Contracting Authority within the period of bid validity:

1) We failed or refused to furnish a Performance Security in accordance with the Condition of the Tender Document No. **NIT – PR – 221848 dated 02.01.2023**

OR

2) We failed or refused to sign the contract.

We know that this Bid – Security Declaration will expire, if contract is not awarded to us, upon:

1) Our receipt of your notification to us of the name of the successful bidder or

2) Twenty – eight days after the expiration of our Bid or any extension to it

Dated this _____ day of _____

For and on behalf of M/s. _____

Address:

Signature

Name

In the capacity of

