

TENDER TO AUTHORIZED PARTNERS FOR SUPPLY AND IMPLEMENTATION OF NETWORK AND SECURITY EQUIPMENT AT NIT HEAD OFFICE AND DR SITE KARACHI

TENDER NO. ADMIN.24(42-C)/2026/AT-59, DTD: June 19 2026

National Investment Trust Limited an Asset Management Company managing mutual funds in Pakistan, invites, bids through E-Pak Acquisition and Disposal System (EPADS) from suppliers / firms registered with Income Tax and Sales Tax Departments and who are on Active Taxpayers List of the Federal Board of Revenue and having registered office, for Procurement of **TENDER TO AUTHORIZED PARTNERS FOR SUPPLY AND IMPLEMENTATION OF NETWORK AND SECURITY EQUIPMENT AT NIT HEAD OFFICE AND DR SITE KARACHI**. Bidding documents, containing detailed terms and conditions, can be downloaded from <https://eprocure.gov.pk> free of cost. Bids should be submitted electronically **ONLY** through EPADS. Manual submission of bids is **NOT** allowed. For registration and training on EPADS or in case of any technical difficulty in using EPADS, prospective bidders may contact PPRA, FBC building sector G-5/2, Islamabad. Contact number 051-111-137-237.

The bids, prepared in accordance with the instructions in the bidding documents, must be submitted on EPADS by July 16, 2026 3:00 PM. Bids will be opened on the same day at 03:30 PM through EPADS.

Note:

All interested bidders must register themselves at EPADS at:

<https://eprocure.gov.pk/#/supplier/registration>

No physical bid shall be entertained.

S. T. A. QUADRI - Head of Administration
National Investment Trust Limited

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NATIONAL INVESTMENT TRUST LIMITED

ADMINISTRATION DEPARTMENT

Admn.24(42-C)/2026/AT-59

June 19, 2026

**TENDER TO AUTHORIZED PARTNERS FOR SUPPLY AND IMPLEMENTATION OF
NETWORK AND SECURITY EQUIPMENT AT NIT HEAD OFFICE AND DR SITE**

KARACHI

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IMPLEMENTATION OF NETWORK AND SECURITY
EQUIPMENT AT NIT HEAD OFFICE AND DR SITE
KARACHI**

SINGLE STAGE: TWO ENVELOPE

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1. INTRODUCTION

- 1.1 National Investment Trust (NIT) is the oldest and largest Mutual Fund Company of Pakistan, with its Head Office located in Karachi and countrywide operation through its 25 branches and a customer facilitation center in Karachi.
- 1.2 E-Bids are invited through E-Pak Acquisition and Disposal System (EPADS) from reputed and well-established firms/companies registered with relevant Registration Authorities and Tax Departments/ Authorities (Income Tax, Sales Tax & Sindh Sales Tax etc.) and who are on Active Taxpayers List of the Federal Board of Revenue for the supply and implementation of adequate Network Equipment and Next Generation Firewall to provide reliable, secure and high available services to the business users, business partners and NIT branches. The E-bids shall be received as per single stage two envelope procedures.

2. SCOPE OF WORK

- 2.1 It is a turnkey project and requires that the bidder should survey and understand complete scope of work before submission of the bid. The submitted bid will cover all services, devices or items, mentioned or unmentioned but required for successful replacement / migration of network equipment implementation and commissioning of the specified Network and security equipment. The implementation should meet the specification and accepted standard / best practices required for such projects.
- 2.2 The selected bidder will be responsible for the supply, design / installation, Integration (with equipment supplied by itself and already installed by other vendors i.e. Firewall, Servers etc.), testing, replacement / commissioning and design & implementation documentation for all equipment & services against this Tender.
- 2.3 The supplied Firewall will be use as a backup of existing (already installed) Next Generation Firewall.
- 2.4 The selected bidder will be expected to replace and configure/ supplied network equipment (Routers and Switches) best suited as per the principal guidelines. The migration / implementation objectives will be optimum performance, high availability and security, while complying with the best design practices. Design process will include development of High-level design, Low Level design and Simulator based implementation.
- 2.5 Selected bidder must ensure that the supplied equipment is fully operational, new and performs properly and meet Tender Technical Specification.
- 2.6 As required during the project the selected bidder must provide comprehensive documentation of system/equipment deployed including system manuals, complete network diagrams / documentation, labeling, training and training manuals, etc
- 2.7 Selected bidder will be required to provide technical support that is backed by principal / manufacturer warranty & support as per the SLA terms signed with NIT.
- 2.8 The maintenance contract will be for a period of five year in case of its price benefit over three years, else period of three years will be chosen.

3. INFORMATION FOR BIDDERS

| | |
|-------------------------------|--|
| Name of Procuring Agency: | National Investment Trust Limited |
| Last date for Bid Submission: | July 16, 2026 at 03:00 PM |
| Bid Opening Date and Time: | July 16, 2026 at 03:30 PM |
| Bid Opening Place: | National Investment Trust Limited National Bank Building, 6 th Floor, I.I. Chundrigar Road, Karachi. 74000, Pakistan. |
| Contact Person: | Mr. S. T. A. Quadri, HO - Admin |
| Phone: | 021-32412056-9 (Ext : 224) |
| Direct Phone: | 021-32425101 |
| Fax: | 021-32422719 |
| Email: | hoa@nit.com.pk |

4. PROCEDURE AND TERMS OF TENDER:

- 4.1. The bidder should be registered with Sales Tax and Income Tax Department.
- 4.2. No change in price can be accommodated once the bid has been submitted.
- 4.3. Bid should be submitted in Pak Rupees if the bid quoted in US Dollar (\$), the price shall be converted into a Pak Rupees as specified in the tender document. The rate of exchange shall be the selling rate, prevailing on the date of opening of the financial bid specified in the tender document, as notified by the National Bank of Pakistan on that day.
- 4.4. All Rate (s) will be inclusive of all taxes, duties etc. levied by the Government of Pakistan, however, during tender process to till full & final payment, any change in Government taxes will be payable by the procurement company.
- 4.5. Bidder firm has not been blacklisted by any Government/Semi Government organization.
- 4.6. NIT reserves the right to accept/reject wholly or partially any tender without assigning any reason at any stage of the tender process. Reasons may be provided upon written request.
- 4.7. Validity period of the bids shall be for the period of tender submission and its award including duration required for compliance with PPRA.
- 4.8. The decisions of NIT will be binding on all concerned and will in no case be challengeable at any forum or any court of law.
- 4.9. Bids are liable to be rejected if; they are not conforming the terms, conditions and specifications stipulated in this Tender.

- 4.10. During the examination, evaluation and comparison of the bids, the NIT at its sole discretion may ask the bidder for clarifications of its bid. However, no change in the price or substance of the bid shall be sought, offered or permitted after bid submission.
- 4.11. For this tender all updates/changes shall be communicated through email by NIT.
- 4.12. It is a turnkey project whereby the selected bidder will be required to complete the project as per the scope provided in this tender document. The price submitted by the bidder will be deemed inclusive of any equipment and services, mentioned or unmentioned, but required for successful completion of this project as per the 'scope of work' (paragraph 2).
- 4.13. After issue of the purchase order, the selected bidder will be required to provide Project Execution Plan; Low level & high-level Design Proposals with layouts, diagrams, etc.; simulator-based simulation of design; etc for consent of NIT team before start of implementation phase and satisfactory completion of this project.
- 4.14. Bidder must have office in Karachi and be fully capable to provide maintenance support from these locations.
- 4.15. The bidders are welcome to visit NIT premises and seek explanation of their queries or for any additional understanding required by them for preparation of their proposal or for better understanding of this project.
- 4.16. Total Bid Value shall cover cost of equipment including optional equipment, installation, configuration and other services required for completion of project as per this tender document/or 'scope of work'.
- 4.17. Bids submitted via email or fax will not be entertained.

5. FORMAT AND SIGNING OF E-BID

- 5.1 The Bidder shall prepare E-bid of the scanned documents in the form of PDF file and as per requirements in the bid document.
- 5.2 The Bidder shall authorize a person / persons for signing, submission and further correspondence with NIT on behalf of bidder. Authority letter must be part of E-bid. However, in case of any issue bidder shall be responsible for all consequences.
- 5.3 All scanned pages of the E-Bid, shall be signed and stamped by the authorized person before scanning.
- 5.4 Any interlineation, erasures, or overwriting shall be valid only if they are initialed by the authorized person for signing the E-Bid.
- 5.5 The name and position held by each person signing the authorization must be typed or printed below the signature. All scanned pages of the E-Bid, shall be signed and stamped by the authorized person before scanning.
- 5.6 Any interlineations, erasures, or overwriting shall be valid only if they are signed by the person or persons signing the Bidder.

6. BID SUBMISSION

- 6.1. For this tender 'Single stage- Two envelope procedure' for open competitive bidding shall be adopted.
- 6.2. The Bids must be submitted separately containing Technical and Financial proposal online on e-Procurement System (EPADS) website.
- 6.3. E-Bids must be submitted on the e-Procurement System (EPADS) on or before the time and date specified in the Bid Data Sheet. Physical Bids received through courier services or delivered by the bidder, shall not be accepted.
- 6.4. The Technical Proposal E-bid should be included the following documents that should be completely filled and sign and stamped by the bidder.
 - 6.4.1. Provide draft document for "Service level Agreement" identifying response time, recovery time, parts inventory, preventive maintenance, and other details required to be specified in such documents. At minimum should include all the salient features as mentioned in Annexure VII.
 - 6.4.2. Company profile.
 - 6.4.3. A signed letter from the bidder on explicit agreement to all the terms & conditions of this tender.
 - 6.4.4. Technical brochure of the offered model / equipment.
 - 6.4.5. List of Names, contact details (phone & email), and date of commencement for all existing customers (corporate sector).
 - 6.4.6. List of qualified staff along with their qualification and certification relevant to the equipment.

- 6.4.7. Technical Information Annexures completely filled, signed and stamped for identifying offered equipment.
 - 6.4.8. Elite partner certificate and MAF from OEM.
 - 6.4.9. Income Tax/GST certificate of the bidder.
 - 6.4.10. Any other document required as per this tender document.
 - 6.4.11. Fill, Sign and Stamp Bid Securing Declaration (Annexure IX)
 - 6.4.12. Draft of Service Level Agreement for support after equipment delivery.
- 6.5. Financial proposal should include following documents.
- 6.5.1. Bid price BOQ (Annexure V) filled sign and stamp.
 - 6.5.2. A detailed breakdown of Bid price BOQ quoted to be given on bidder letterhead. It should include any hardware, software or service identifiable as separate part number / description or considered by vendor for costing purpose and being offered by the bidder in its proposal.
- 6.6. Bidders should include all charges whatsoever within the BOQ (bid) submitted, any cost/charges mentioned outside the BOQ annexure will not be considered.
- 6.7. Bidder should comply all the requirements given in the bid document and specifically for Qualification criteria given in Annexure VIII.
- 6.8. As a part of technical evaluation, bidders may be asked to arrange visit to their completed projects.
- 6.9. In first stage only the 'Technical proposals' will be opened.
- 6.10. Technical proposals of the bidders will be evaluated, generally for compliance of ALL the requirements given in the tender document and specifically for Qualification Criteria given in Annexure VIII.

7. PROJECT COMPLETION & DELIVERABLES

- 7.1 Project completion means successful implementation and delivery of requirements covered generally in project scope (paragraph 2), Annexure VI and specifically in technical specification Annexure I to Annexure IV and signing of SLA (Annexure VII); or any other condition mentioned in this tender document.
- 7.2 The selected bidder after receiving purchase order will be required to submit project plan. The project plan will provide milestones and its timelines for design / migration and implementation activities. Milestones will be any activity mentioned in this tender document or needed for such projects.
- 7.3 The design / migration plan should be shared before delivery & installation phase of the equipment.

8. OPENING OF E-BIDS

- 8.1 The e-Bids will open in the presence of Bidders' or their representatives who choose to attend, in the Bid proceedings at the place, on the date and at the time, specified in the bidding document. The Bidders' representatives present shall sign a register/attendance sheet as proof of their attendance.
- 8.2 E-Bids shall be opened on the e-Procurement System (EPADS) one at a time, the Bidders names, the Bid prices, the total amount of each E-Bid, the presence or absence, Bid Securing Declaration and such other details as the NIT may consider appropriate, will be announced by the Procurement Evaluation Committee.
- 8.3 During the examination, evaluation and comparison of e-Bids and post-qualification of the Bidders, the NIT at its discretion may, ask any Bidder for a clarification of its e-Bid including breakdown of prices to determine its reasonability. Any clarification submitted by a Bidder that is not in response to a request by the Procuring Agency shall not be considered.
- 8.4 Bids are liable to be rejected if; they are not conforming the terms, conditions and specifications stipulated in this bidding document.

9. EVALUATION CRITERIA

- 9.1 The price will be evaluation criteria among the technically qualified bidders for selection of winning bid.
- 9.2 The lowest total bid price as per prescribed format of Annexure V will be selected.

10. PAYMENT TERMS

- 10.1 No payment shall be made in advance to the vendor as mobilization advance.
- 10.2 Fifty percent (50%) of bid amount shall be paid and will be released after successful delivery of ordered equipment at designated sites, based on power on check and verification of equipment based on documents & principal's confirmation (if required) of specifications.
- 10.3 Fifty percent (50%) of bid amount shall be paid upon successful project completion as identified in paragraph 2 and Annexure VI Project Scope and completion.
- 10.4 All payments shall be made after deduction of taxes.
- 10.5 All payments shall be made through cross cheque in the Pak Rupees.
- 10.6 Taxes will be deducted at source as per government rules at the time of payment.
- 10.7 Bidder should mention any other charges/optional charges in financial bid deemed necessary to complete and compare final bid amount. (all-inclusive including taxes)

ANNEXURE I: TECHNICAL SPECIFICATION FOR CORE SWITCHES

| Equipment Type | Specifications | Compliance (Y/N) | Comments | Module Number | Reference Brochure |
|----------------------|--|------------------|----------|---------------|--------------------|
| 1.0 Core Switches | 1.1 Huawei S5735-S48T4XE-V2 or equivalent / or Higher specification | | | | |
| | 1.2 48 x 10/100/1000Base-T ports, 4 x 10GE/GE SFP+/SFP ports required | | | | |
| | 1.3 Dedicated Stack Interface with cables, stacking support up to 8 switches. | | | | |
| | 1.4 Redundant power supplies required | | | | |
| | 1.5 Rack Mountable | | | | |
| | 1.6 Switching capacity: 220 Gbps or more | | | | |
| | 1.7 Forwarding performance: 160 Mpps or more | | | | |
| | 1.8 4K VLAN | | | | |
| | 1.9 32K MAC Address | | | | |
| | 1.10 QinQ, LACP, STP, RSTP, MSTP, RRPP, ERPS, LLDP, Jumbo Frames | | | | |
| | 1.11 Static Routing, RIP, RIPng, OSPF, OSPFv3, ipv6 routes, PBR, DHCP Server/Client/Relay | | | | |
| | 1.12 4K ARP entries | | | | |
| | 1.13 4K IPv4 routes | | | | |
| | 1.14 Support IGMP v1/v2/v3, IGMP v1/v2/v3 snooping, PIM-DM, PIM-SM and MSDP | | | | |
| | 1.15 IPv4 multicast routes 1K, IPv6 multicast routes 1K | | | | |
| | 1.16 VRRP, DLDP, Smart link, Monitor link, EFM and CFM | | | | |
| | 1.17 Support mac authentication and 802.1x authentication | | | | |
| | 1.18 Defense against UDP flood, TCP SYN flood, ICMP flood and packet fragment attacks, ARP packet rate limiting | | | | |

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|--|--|--|--|--|
| 1.19 CLI and Web interface (HTTPS), Telnet, SSH v2, SNMP v1, v2, and v3, eMDI | | | | |
| 1.20 Support Automation with SDN Controller, NETCONF and YANG | | | | |
| 1.21 Support ITU-T G.8032, ITU-Y.1731, IEEE 802.1D, 802.1P, 802.1Q, 802.1ad, 802.3ab, 802.3ad, 802.3ah, 802.1ab, RFC792, RFC 959, RFC 1305, RFC 1981 and RFC2131. | | | | |
| 1.22 All required SFPs, Stack cables, fiber/copper patch cords and necessary accessories should be part of the solution | | | | |
| 1.23 Supply, installation, and configuration of New Core Switches to replace existing End-of-Life (EOL) Huawei S5720-56C-EI-AC with stacking module. The new switch shall be configured identically to the existing unit. Preserving all configurations and stacking functionality. | | | | |
| 1.24 Equipment warranty & support services for period of 3 years and 5 years (both options). | | | | |
| 1.25 SLA terms as per Annexure VII of the tender document | | | | |
| 1.26 Implementation as per Annexure VI of the tender document | | | | |
| 1.26 Configure in High availability (Active / Active) design with Access switches, Firewalls & Servers. | | | | |
| 1.27 Vendors should quote OEM enterprise-class products; SMB product offerings from OEMs are not acceptable | | | | |

Note: *Specification higher than above mentioned is also acceptable as per the options available in that brand.*

ANNEXURE II: TECHNICAL SPECIFICATION FOR ACCESS SWITCHES

| Equipment Type | Specifications | Compliance (Y/N) | Comments | Module Number | Reference Brochure |
|---------------------------|--|------------------|----------|---------------|--------------------|
| 2.0 Access Switches | 2.1 Huawei S5735-L24P4S-A-V2 or Equivalent / or Higher specification | | | | |
| | 2.2 24 x 10/100/1000Base-T ports, 4 x 1GE SFP ports (POE/POE+ Power from all downlink ports) (2 x1GE copper SFP to be included per switch for uplinks required) | | | | |
| | 2.3 Rack Mountable | | | | |
| | 2.4 Switching capacity: 55 Gbps or more | | | | |
| | 2.5 Forwarding performance: 40 Mpps or more | | | | |
| | 2.6 Available POE budget of 380W or more | | | | |
| | 2.7 4K VLAN | | | | |
| | 2.8 32K MAC Address | | | | |
| | 2.9 QinQ, LACP, STP, RSTP, MSTP, RRPP, ERPS, LLDP, Jumbo Frames | | | | |
| | 2.10 Static Routing, RIP, RIPng, OSPF, OSPFv3, ipv6 routes, PBR, DHCP Server/Client/Relay | | | | |
| | 2.11 4K ARP entries | | | | |
| | 2.12 4K IPv4 routes | | | | |
| | 2.13 Support IGMP v1/v2/v3, IGMP v1/v2/v3 snooping, PIM-DM, PIM-SM and MSDP | | | | |
| | 2.14 IPv4 multicast routes 1K, IPv6 multicast routes 1K | | | | |
| | 2.15 Stacking support up to 8 switches | | | | |
| | 2.16 VRRP, DLDP, Smart link, Monitor link, EFM and CFM | | | | |
| | 2.17 Support mac authentication and 802.1x authentication | | | | |
| | 2.18 Defense against UDP flood, TCP SYN flood, ICMP flood and packet fragment | | | | |

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|--|--|--|--|--|
| attacks, ARP packet rate limiting | | | | |
| 2.19 CLI and Web interface (HTTPS), Telnet, SSH v2, SNMP v1, v2, and v3, eMDI | | | | |
| 2.20 Support Automation with SDN Controller, NETCONF and YANG | | | | |
| 2.21 Support ITU-T G.8032, ITU-Y.1731, IEEE 802.1D, 802.1P, 802.1Q, 802.1ad, 802.3ab, 802.3ad, 802.3ah, 802.1ab, RFC792, RFC 959, RFC 1305, RFC 1981 and RFC2131. | | | | |
| 2.22 Supply, installation, and configuration of New Access Switches to replace existing End-of-Life (EOL) Huawei S5700-28TP-PWR-LI-AC. The new switches shall be configured identically to the existing units. Preserving all configurations. | | | | |
| 2.23 Equipment warranty & support services for period of 3 years and 5 years (both options). | | | | |
| 2.24 SLA terms as per Annexure VII of the tender document | | | | |
| 2.25 Implementation as per Annexure VI of the tender document | | | | |
| 2.26 All required SFPs, Stack cables, fiber/copper patch cords and necessary accessories should be part of the solution | | | | |
| 2.27 Vendors should quote OEM enterprise-class products, SMB product offerings from OEMs are not acceptable | | | | |

Note: *Specification higher than above mentioned is also acceptable as per the options available in that brand.*

ANNEXURE III: TECHNICAL SPECIFICATION MAIN AND DR DATA CENTER CORE ROUTER

| Equipment Type | Specifications | Compliance (Y/N) | Comments | Module Number | Reference Brochure |
|---|---|------------------|----------|---------------|--------------------|
| 3.0 Data Center Core Routers | 3.1 Huawei AR6710-L14T2X4 or Equivalent / or Higher specification | | | | |
| | The router should have at least 2 x 10GE SFP+ WAN ports, 2 x GE electrical WAN ports and 8 x GE copper + 4GE SFP LAN ports which should also be configurable as WAN ports | | | | |
| | 3.2 Router should have at least 4 x interface expansion slots to support LAN/WAN and other interfaces. | | | | |
| | 3.3 Rack Mountable and Redundant power supplies to be included. | | | | |
| | 3.4 Should include licenses if required for IPSec VPN, DSVPN etc, should support IPSEC configuration and integration with existing Huawei branch routers. | | | | |
| | 3.5 Throughput of the router should be at least 4Gbps routing performance with service (Qos&NAT&ACL) and at least 2.5Gbps IPSec/SDWAN performance with IMIX packet size | | | | |
| | 3.6 DiffServ mode, MPLS QoS, priority mapping, traffic policing (CAR), traffic shaping, congestion avoidance, congestion management, MQC (traffic classifier, traffic behavior, and traffic policy), hierarchical QoS | | | | |
| | 3.7 ACL (v4/v6), zoning firewall, AAA authentication, RADIUS authentication, HWTACACS authentication, broadcast storm suppression, ARP security, ICMP attack defense, URPF, CPCAR, blacklist, attack source tracing, URL filtering | | | | |
| | 3.8 Support Encryption features DES, 3DEC, AES, MD5, SHA | | | | |
| 3.9 Support Static routing, RIP, RIPng, OSPF, OSPFv3, BGP, BGP4+, IS-IS, IS-ISv6, PBR, DHCP Server/Relay, NAT/PAT, DNS | | | | | |

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|---|--|--|--|--|
| Proxy | | | | |
| 3.10 Support P2P IPSec site-to-Site VPN and M2P IPSec, support DMVPN/DSVPN, GRE VPN, L2TP VPN | | | | |
| 3.11 Support Smart Application Control, URL filtering | | | | |
| 3.12 Support MPLS, layer 2 and 3 VPN | | | | |
| 3.13 Support upgrade to SD-WAN CPE without changing hardware, support NETCONF and YANG | | | | |
| 3.14 Supply, installation, and configuration of New Datacenter Core Routers to replace existing End-of-Life (EOL) Huawei AR2220E (Dual Power Supply). The new Routers shall be configured identically to the existing units. Preserving all configurations. | | | | |
| 3.15 Equipment warranty & support services for period of 3 years and 5 years (both options) | | | | |
| 3.16 SLA terms as per Annexure VII of the tender document | | | | |
| 3.17 Implementation as per Annexure VI of the tender document | | | | |

Note: *Specification higher than above mentioned is also acceptable as per the options available in that brand.*

ANNEXURE 1V: TECHNICAL SPECIFICATION FOR NEXT GENERATION FIREWALL

| Equipment Type | Specifications | Compliance (Y/N) | Comments | Module Number | Reference Brochure |
|---------------------------------------|--|------------------|----------|---------------|--------------------|
| 4.0 Next Generation Firewall | 4.1 Huawei USG6525F-AC or Equivalent / Higher specification | | | | |
| | 4.2 Next Generation Firewall with advance Application and user visibility, Threat prevention, URL and content filtering | | | | |
| | 4.3 2×10GE SFP+ and 8×GE with 6 routed Combo ports (SFP/RJ45) required | | | | |
| | 4.4 Redundant Power supplies are required | | | | |
| | 4.5 Rack Mountable | | | | |
| | 4.6 Firewall Throughput is 2.5 Gbps or more | | | | |
| | 4.7 Threat Prevention (Firewall, IPS, AV) throughput is 1.5 Gbps or more | | | | |
| | 4.8 Concurrent Sessions is 3M or more | | | | |
| | 4.9 New sessions per second is 80K or more | | | | |
| | 4.10 Support at least 4,000 IPSec VPN tunnels | | | | |
| | 4.11 IPSec VPN throughput is 2 Gbps or more | | | | |
| | 4.12 SSL Inspection throughput is 400 Mbps or more | | | | |
| | 4.13 Integrated Protection: Integrates firewall, VPN, intrusion prevention, antivirus, data leak prevention, bandwidth management, and URL filtering functions, and provides a global configuration view and integrated policy management | | | | |
| | 4.14 Application Identification and Control: Identifies common applications, supports application-specific access control, and combines application identification with intrusion prevention, antivirus, and data filtering to improve detection performance and accuracy | | | | |

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|--|--|--|--|--|
| <p>4.15 Intrusion Prevention and Web Protection: Obtains the latest threat information in a timely manner for accurate detection and prevention of vulnerability exploits and web attacks, such as cross-site scripting and SQL injection attacks</p> | | | | |
| <p>4.16 Data Leak Prevention: Inspects files to identify the file type, such as WORD, EXCEL, POWERPOINT, and PDF, based on file contents, and filters sensitive content</p> | | | | |
| <p>4.17 Bandwidth Management: Manages per-user and per-IP bandwidth in addition to identifying service applications to prioritize mission-critical services and users through methods such as peak bandwidth and committed bandwidth, policy-based routing (PBR), and application forwarding priority adjustment</p> | | | | |
| <p>4.18 URL Filtering: Can access a URL category database of over 120 million URLs to manage access by URL category, such as blocking malicious URLs and accelerating access to specified categories. Supports DNS filtering, in which accessed web pages are filtered based on domain names. Supports the SafeSearch function to filter resources of search engines, such as Google, to guarantee access to only healthy network resources.</p> | | | | |
| <p>4.19 Behavior and Content Audit: Audits and traces the sources of URL access based on the user IP address and requested content.</p> | | | | |
| <p>4.20 Intelligent Uplink Selection: Supports service-specific PBR and intelligent uplink selection based on multiple load balancing algorithms (for example, based on bandwidth ratio and link health status) in multi-homing scenarios</p> | | | | |
| <p>4.21 VPN Encryption: Supports multiple highly reliable VPN features, such as IPsec VPN, SSL VPN, L2TP VPN, IPsec over GRE, GRE over IPsec, DSVPN, and GRE. Provides a VPN client for remote user access through SSL VPN, L2TP VPN, and L2TP over IPsec VPN. Supports IPsec intelligent link selection and dynamic IPsec tunnel switchover to improve link</p> | | | | |

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|--|--|--|--|--|
| availability | | | | |
| 4.22 SSL Encrypted Traffic Detection: Serves as a proxy to detect and defend against threats in SSL-encrypted traffic using application-layer protection methods such as intrusion prevention, antivirus, data filtering, and URL filtering. Support the HTTPS, POP3S, SMTPS, IMAPS SSL-encrypted traffic detects | | | | |
| 4.23 Device Management Capability: Built-in Web UI: Provides abundant device management and maintenance functions, including log report, configuration, and troubleshooting | | | | |
| 4.24 User Authentication: Supports multiple user authentication methods, including local, RADIUS, HWTACACS, AD, CA, LDAP, MAC, SSO and authentication exemption | | | | |
| 4.25 Security Virtualization: Allows users to create and manage virtual security services, including firewall, intrusion prevention, and antivirus services, on the same physical device | | | | |
| 4.26 Policy Management: Provides predefined common-scenario defense templates to facilitate security policy deployment. Automatically evaluates risks in security policies and provides tuning suggestions. Detects redundant and conflicting policies to remove unnecessary and incorrect policies | | | | |
| 4.27 Diversified Reports: Provides visualized and multi-dimensional reports by user, application, content, time, traffic, threat, and URL | | | | |
| 4.28 Routing: Supports IPv4 static routes, policy-based routing, routing policies, multicast, RIP, OSPF, BGP, and IS-IS. Support IPv6 static routes, policy-based routing, routing policies, RIPng, OSPFv3, BGP4+, and IPv6 IS-IS | | | | |
| 4.29 Working Mode: Transparent, routing, and hybrid working modes | | | | |
| 4.30 Must quote 3 Years and 5 Years complete security features license (IPS + URL + AV), the license function can't stop working once the license is expired just can't update the | | | | |

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|--|--|--|--|--|
| database. 200 SSLVPN license to be included | | | | |
| 4.31 The vendor shall install / configure Next-Generation Firewall (NGFW) to serve as a backup security appliance of existing NGFW. | | | | |
| 4.32 Equipment warranty & support services for period of 3 years and 5 years (Both options). | | | | |
| 4.33 SLA terms as per Annexure VII of the tender document | | | | |
| 4.34 Implementation as per Annexure VI of the tender document | | | | |

Note: Specification higher than above mentioned is also acceptable as per the options available in that brand.

ANNEXURE V: BILL OF QUANTITY ‘NETWORK EQUIPMENT AND NEXT GENERATION FIREWALL & SERVICES FOR HEAD OFFICE & DR SITE’

PRICE FOR THREE YEAR

| ITEM | QTY | Unit Price | Tax | Total Price Three Years (Inclusive of Taxes) |
|---|-----|------------|-----|--|
| 1.0 Core Switches (As Per Specification in Annexure I & VI) | 02 | | | |
| 2.0 Access Layer Switch (As Per Specification in Annexure II & VI) | 08 | | | |
| 3.0 Data Center Core Routers (As Per Specification in Annexure III & VI) | 02 | | | |
| 4.0 Next Generation Firewall (As Per Specification in Annexure IV & VI) | 01 | | | |
| Total Bid Amount | | | | |

PRICE FOR FIVE YEARS

| ITEM | QTY | Unit Price | Tax | Total Price Five Years (Inclusive of Taxes) |
|---|-----|------------|-----|---|
| 1.0 Core Switches (As Per Specification in Annexure I & VI) | 02 | | | |
| 2.0 Access Layer Switch (As Per Specification in Annexure II & VI) | 08 | | | |
| 3.0 Data Center Core Routers (As Per Specification in Annexure III & VI) | 02 | | | |
| 4.0 Next Generation Firewall (As Per Specification in Annexure IV & VI) | 01 | | | |
| Total Bid Amount | | | | |

- i) Bidder should mention any other charges/optional charges in financial bid deemed necessary to complete and compare final bid amount. (Inclusive all taxes)
- ii) If the bid quoted in US Dollar (\$), the price shall be converted into a Pak Rupees as notified by the National Bank of Pakistan on that day.
- iii) Five-years Period may be chosen in case it benefits the tendering entity.

ANNEXURE VI: PROJECT SCOPE AND COMPLETION REQUIREMENTS

Successful completion of project will include the successful completion of all the below mentioned phases included in project scope, by the bidder for all the equipment (as applicable) being purchased as mentioned under “Annexure I to Annexure IV”:

- **Design / Replacement / Migration & Installation Plan:**
 - a) Design / Replacement / Migration and Installation Plan of equipment implementation that will identify the unique data flow topology, settings, configuration, functional/feature usage, and any other design parameters for the deployment/installation of the equipment. The activities for the design / replacement / migration should include the following:
 - i. The design / Migration / Implementation plan should meet the objectives of performance, availability, security, maintainability, best practices, etc.
 - ii. On receipt of purchase order submit the complete project implementation plan and High-level design (HLD) document which will be finalized after discussion with NIT IT team.
 - iii. Before implementation a low-level designs (LLD) to be finalized in accordance with the requirement of NIT, which should be approved by the IT department.
- **Supply:**
 - b) The selected bidder should ensure the supplied equipment is new / latest and in perfect working condition.
- **Installation, Configuration & Replacement:**
 - c) The installation & configuration will be in accordance to the Low Level design details approved by NIT team. This step will include the activity for setting up of the supplied equipment and its installation and will include the following:
 - i. The Bidder shall supply, deliver, install, configure, and commission Core Switches, Assess Switches and Datacenter Routers to replace the existing End-of-Life (EOL) Huawei Equipment. The new equipment must be functionally equivalent to or better than the existing units and shall seamlessly integrate into the current network without service disruption and be in accordance to the manufacturer guidelines.
 - ii. The Bidder shall supply, install, and configure Next-Generation Firewall (NGFW) to serve as a backup security appliance for the existing Palo Alto Next Generation Firewall. The primary objective is to ensure network security continuity in the event of a primary device failure, with the backup device taking over security enforcement with minimal service disruption.
 - iii. That the configuration for all the features identified in the equipment specification is in accordance with the low level design and understood/agreed by NIT team.
 - iv. The equipment to be supplied should be properly installed and labeled.
 - v. Any cable entering / leaving the supplied equipment should be properly tied, tacked, routed, labeled, etc.
- **Commissioning & Testing:**
 - d) The commissioning will require demonstration of design considerations to NIT team. It will be the responsibility of the vendor to identify that the features required are working properly by establishing demonstrable scenarios and using any software or hardware tools through its own resources, for this purpose.
- **Documentation:**

The documentation should include diagrams, design / migration / implementation documents, configuration (soft/hard) copies, etc required for proper maintenance of the equipment for future use.

ANNEXURE VII: SALIENT FEATURES FOR REQUIRED SERVICE LEVEL

1. Vendor shall perform the obligations contained in agreed signed Principal backed SLA for Annexure I to Annexure IV, as appropriate, at its own cost as to parts, labor and transport.
2. It is principal backed support agreement with the vendor. [Selected vendor] will be responsible for logging of complaints from NIT and following it with the principal/manufacturer.
3. The [selected vendor] will be required to attend the complaint within a hour generally in case of degradation and within 30 minutes in case of breakdown in operation.
4. The attendance of complaint may be by visiting onsite or through remote session, depending on the nature of complaint.
5. It will cover a duration 3 Years or 5 Years, 8x5 Next Business Day OEM Support /Replacement at NIT Premises along with partner On-Site support 24/7 for Core Switches and Access Switches.
6. It will cover a duration of 3 Years or 5 Years 24x7 Advance Hardware replacement support by OEM with up to 30 minutes response time SLA for severity 1 tickets along with partner On-Site support 24/7 for Next Generation Firewall and Core Routers.
7. Provide provision for recording of complaints by issue of complaint number and point of contact of support engineer / help desk.
8. Should provide an escalation matrix for escalating the complaint resolution.
9. While attending to any complaint Vendor will perform associated services at the premises of the NIT, however, in case of some major defects, replacement of the same may be performed at the site / workshop of Vendor after due notification.
10. In case if OEM unable to provide Next Business Day delivery Support or 24/7 advance hardware replacement in NIT premises as mentioned in clause 5 and 6 above then equivalent backup device should be provided by vendor.
11. Vendor shall ensure that only genuine / approved parts of Manufacturer are being used during any replacement.
12. The paramount objective of the service agreement is to minimize the downtime inevitable in case of repair / replacement processing.
13. During the term of this agreement [selected vendor] will maintain the supplied equipment by providing patches and BIOS / firmware update and enhancements to NIT
14. The [selected bidder] will be responsible for attending any complaints during 3 years support period relating to degradation/non-availability of any equipment / software feature or configuration of any new feature required from the supplied equipment.
15. In case of shifting of NIT Head Office to another location within a city the selected vendor will provide the support without any additional charges.

16. Vendor will suggest and perform any configuration changes / modification in existing design, devices OS upgrade and bug fixing, required for ensuring optimal performance.
17. The critical incident should be treated on highest priority to restore normal service as quickly as possible and to minimize the adverse impact on NIT business.

ANNEXURE VIII: QUALIFICATION CRITERIA OF THE BID

Following are Qualification criteria for all the Items required for qualifying a bid as responsive:

1. Bidder must be Original Equipment Manufacturer OEM's Authorized Partner having valid partnership certificate of OEM for last 05 (five) consecutive years; OEM Presence should be at least six years or more in Pakistan.
2. Successful implementation of at least (10) similar projects (Minimum 05 in financial sector) completed within last three years, should include at least three projects of the offered brand. Testimonial from the customer or can be confirmed by the NIT through the contact details provided.
3. The brand of equipment offered must have implementation in at least 5 different public listed companies having revenue in excess of Rs. 10 billion, with satisfactory equipment performance confirmation from the client.
4. Active Income Tax Certificate & GST Certificate (Copy to be provided).
5. The bidder must hold a valid Elite level partnership like Gold / Premier / Tier-1, or equivalent highest-level partnership status with the OEM, and shall provide supporting documentation or certification as proof.
6. The OEM Switching solution must be positioned as a Leader or Challenger in Gartner Wired and Wireless Magic Quadrant 2025.
7. The OEM Routing solution must be positioned as a Leader or Challenger in Gartner Magic Quadrant for SDWAN 2024
8. Bidder must be authorized by their OEM specifically for this procurement Bidder must submit Manufacturer's Authorization Letter (MAF) for this tender.
9. Bidder must not have been blacklisted or be in breach of performance with any public sector Organization(s).
10. Participating vendor must facilitate online verifiable serial numbers of offered products.
11. Bidder must have technical strength of at least 01 OEM certified Expert Technical Resources of quoted solution (e.g CCIE for Cisco, HCIE for Huawei etc);
12. OEM Direct support services within Pakistan will be given preference in the best interest of NITL

13. Letter on company letter head duly signed confirming the bidder agreement to all the terms & conditions mentioned in this tender.
14. No change in price can be accommodated once the bid has been submitted.
15. Completely filled Bill of Quantity as per equipment quantity has given under Annexure V.
16. Compliance of the offered model / product with the specification mentioned in Technical information. Annexure 1 to Annexure IV completely filled signed and stamped to be included.
17. Tender document be duly fill, signed and stamped.
18. Signing of SLA as per the “ANNEXURE VII: SALIENT FEATURES FOR REQUIRED SERVICE LEVEL”
19. List of technical support staff should include professional holding required certification from equipment manufacturer along with appropriate length of service.
20. Adequate Help desk facility to allow for call logging and ticketing, like Help Desk attendant, Online Web based application, etc.
21. Should provide all documents as mentioned under paragraph 6.4 of this tender document.
22. Any other items & conditions mentioned in this tender document.

ANNEXURE IX: BID SECURING DECLARATION

Head of Administration

National Investment Trust Limited
6th Floor, NBP Building, I.I. Chundrigar Road

KARACHI:

We, the undersigned, declare that;

We understand that, according to your conditions, Bids must be supported by a Bid Securing Declaration.

We accept that we will be blacklisted and henceforth cross debarred for participating in respective category of public procurement proceedings for a period of (not more than) six months, if fail to abide with a bid securing declaration, however, without indulging in corrupt and fraudulent practices, if we are in breach of our obligation(s) under the Bid conditions, because we;

- a) have withdrawn our Bid during the period of Bid validity specified in the Letter of Bid; or
- b) having been notified of the acceptance of our Bid by the Procuring Agency during the period of Bid validity, (i) fail or refuse to sign the Contract; or (ii) fail or refuse to furnish the Performance Security (or guarantee), if required, in accordance with the ITB.

We understand this Bid Securing Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder, or (ii) twenty-eight days after the expiration of our Bid.

Name of the Bidder* _____

Name of the person duly authorized to sign
the Bid on behalf of the Bidder** _____

Title of the person signing the Bid _____

Signature of the person named above _____

Date Signed _____ Day of _____

* In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder.

** Person signing the Bid shall have the power of attorney given by the Bidder attached to the Bid.

[**Note:** In case of a joint Venture, the Bid-Securing Declaration must be in the name of all members to the Joint Venture that submits the Bid]3