



**BIDDING DOCUMENT  
FOR  
PROCUREMENT  
OF IT / MACHINERY AND EQUIPMENT FOR  
FEDERAL PUBLIC SERVICE COMMISSION  
F-5/1, AGA KHAN ROAD  
ISLAMABAD**



## **INVITATION TO E-BIDS THROUGH E-PADS “FOR PROCUREMENT OF IT / MACHINERY AND EQUIPMENT”**

In accordance with PPRA S.R.O. 296(I)/2023, dated 27<sup>th</sup> February, 2023, titled “E-Pak-Procurement Regulation 2023,” the Federal Public Service Commission (FPSC) invites e-bids through the E-Pak Acquisition and Disposal System (E-PADS) from firms/vendors that are registered with the Income Tax and Sales Tax Departments and fulfill the eligibility criteria outlined in the bidding document.

2. E-bidding document containing detailed terms and conditions, specifications, and other requirements are available for registered bidders on E-PADS at <https://eprocure.gov.pk> and on FPSC's official website [www.fpsc.gov.pk](http://www.fpsc.gov.pk), free of cost.

3. E-bids, prepared in accordance with the instructions outlined in the bidding document, along with the bid security instrument and required documents, must be submitted via E-PADS on or before **12<sup>th</sup> May, 2025 (Monday) by 11:00 am**, bids will be opened on the same day at 11:30 am. Manual financial bids shall not be accepted till the opening of financial bids on E-PADS.

4. Scanned copies of all required documents mentioned in the eligibility criteria of bidding document must be uploaded through **E-PADS** when submitting the e-bid electronically through file uploading method (Single Stage One Envelope procedure) as per Rule 36 (a) of PPR Rules 2004 as amended from time to time and one original hard copy of documents except financial bid with following original documents must also be submitted to the **office of the Director (Logistics), FPSC HQs, F-5/1, Aga Khan Road, Islamabad** before the e-bid closing time:

- i. **Bid Security Instrument:** 5% of the bid amount/total quoted value (refundable), in the form of CDR/Demand Draft/Pay Order/Banker's Cheque drawn on the name of Federal Public Service Commission FTN No.9010202-9 (Please disregard the amount reflected on E-PADS when uploading the record of bid (scanned copy of bid security instrument).
- ii. **Affidavit:** A stamp paper of Rs.100/- stating that the firm has not been blacklisted at the time of submitting the e-bid.

5. Bidder (s) shall have the right to submit proposal for a single item or for multiple items. For clarifications of the bidder (s) Pre-Bid meeting will be held on **2<sup>nd</sup> May, 2025 (Friday) at 11:00 am**.

6. FPSC reserves the right to reject all bids or proposals at any time prior to acceptance, as provided under Rule 33 of the Public Procurement Rules, 2004.

**DIRECTOR (LOGISTICS)**

**F.4.01/2024-2025-Log-I (IT Equip)**  
**FEDERAL PUBLIC SERVICE COMMISSION**  
**Aga Khan Road, F-5/1, Islamabad**  
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Subject: **BIDDING DOCUMENT / INSTRUCTIONS TO THE BIDDERS REGARDING  
PROCUREMENT IT / MACHINERY AND EQUIPMENT**

**1. Introduction:**

Federal Public Service Commission (FPSC) requires proposals / e-bids for procurement of IT / Machinery and Equipment through open competitive e-bidding in pursuance of Rule 36(a) of Public Procurement Rules 2004 i.e. single stage – one envelope procedure read with S.R.O. 296(I)/2023, 27<sup>th</sup> February, 2023 title “E-Pak-Procurement Regulation 2023”.

**1.1 Source of Funding:**

Regular budget of FPSC for the Financial Year 2024-2025.

**1.2 Scope of Work at Appendix-A:**

Invitation of e-bids for procurement of following items as per specifications given in the bidding document:

<u>S.No.</u>	<u>Name of Item</u>	<u>Quantity</u>
i.	Desktop Personal Computers (Core i7)	10 No.
ii.	Laptops (Core i7)	20 No.
iii.	Heavy duty duplex scanners	10 No.
iv.	Servers (Refurbished)	2 No.
v.	Mini portable body cameras with live video streaming option	5 No.
vi.	LED Screen / TV (65 inch approximately)	1 No.
vii.	Firewall (Refurbished)	1 No.

**2. Eligibility Criteria:**

To be eligible for bidding, firms/vendors must meet the following requirements and submit the specified documents both through the E-PADS system and in hard copy to the office of the Director (Logistics), FPSC HQs, F-5/1, Aga Khan Road, Islamabad, before the closing deadline for e-bid submissions:

**2.1 PPRA Registration:** The firm/vendor must be registered with the PPRA (Public Procurement Regulatory Authority) e-Pak Acquisition and Disposal System (E-PADS).

**2.2 Bid Security Instrument:** 5% of the bid amount/total quoted value (refundable), in the form of CDR/Demand Draft/Pay Order/Banker's Cheque drawn on the name of Federal Public Service Commission FTN No.9010202-9 (Please disregard the amount reflected on E-PADS when uploading the record of bid (scanned copy of bid security instrument).

**2.3 Affidavit of No Blacklisting:** The firm/vendor must submit an affidavit on a stamp paper of a minimum value of Rs.100, declaring that the bidder has not been

blacklisted by any Government Department/Organization at the time of submission of e-bid. A scanned copy must be submitted via E-PADS, and the original must be provided at FPSC HQs.

- 2.4 **Compliance with Bidding Instructions:** The firm/vendor must carefully examine all instructions, terms, and specifications outlined in the bidding documents. Failure to provide the required information may lead to rejection of the e-bid.
- 2.5 **Firm Profile and Documentation:** The firm/vendor must provide the following documentation:
  - i. Active landline phone number of Islamabad office
  - ii. Bank account details.
  - iii. NTN (National Tax Number) Certificate.
  - iv. GST Certificate.
  - v. Certificate of Active Taxpayer status.

### 3. **Cost of Bid:**

The firm/vendor shall bear all costs associated with the preparation and submission of its e-bid. The Procuring Agency (FPSC) shall, under no circumstances, be responsible or liable for any costs incurred by the bidder in the bidding process.

### 4. **Form of Bid(s):**

#### 4.1 **Submission of E-Bid**

Submission / opening of e-bids shall be through E-PADS in accordance with E-Pak Procurement Regulations, 2023. The e-bid must be uploaded on **E-PADS** as prescribed at <https://eprocure.gov.pk>.

#### 4.2 **Language of Documents**

All bid-related documents or correspondence must be made in **English**.

#### 4.3 **Covering Letter and Signatures**

A scanned copy of a proper covering letter, printed on the firm's letterhead, should be attached/uploaded. Additionally, all pages of the bid must be signed and bear the official seal of the person authorized to sign/endorse the bid on behalf of the firm.

### 5. **Opening and Evaluation of Bids:**

#### 5.1 **Opening of Bids**

Bids will be opened through **E-PADS** by the Procurement Evaluation Committee of FPSC, in accordance with the **E-Pak Procurement Regulation, 2023**, on **12<sup>th</sup> May, 2025 (Monday)** at **11:30 am**.

## **5.2 Evaluation of Bids**

An evaluation report of the e-bids will be prepared based on the criteria outlined in the bidding documents. This report will be announced and published on E-PADS as per **Rule 35 of PPRA Rules, 2004**, prior to the approval of the final recommendation by the Competent Authority.

## **6. Clarification of Bids:**

No bid shall be allowed to be modified, altered or withdrawn after opening of the e-bid(s). Clarification (if any) shall follow Rule 31 of PPRA Rules 2004.

## **7. Deadline for Submission of Bids:**

### **7.1 Submission of E-Bids**

E-bids must be uploaded on **E-PADS** within the timeline provided in the advertisement/bidding document.

### **7.2 No Alternate Submission Methods**

Bids submitted by hand, postal mail, fax, telegram, or email will **not** be accepted.

### **7.3 No Extension of Deadline**

After the specified deadline for submission of e-bids, no requests for an extension of time will be entertained.

## **8. Validity of Bid:**

All bids shall be valid up to 30.06.2025

## **9. Bid Price:**

### **9.1 Currency and Taxes**

The bid price must be quoted in **Pakistani Rupees**, inclusive of all applicable taxes for the **Financial Year 2024-2025**.

### **9.2 Information on Requirements**

The bidder is deemed to have obtained all necessary information regarding the requirements that may affect the bid price.

### **9.3 Item Pricing Based on Specifications**

The bidder must quote the prices of items in accordance with the specifications provided in the bidding document.

### **9.4 Market Conditions and Inflation**

While preparing the e-bid, the bidder should consider the current market trends and inflation in the cost of goods. **No requests for price increase** due to market fluctuations in the cost of goods and services will be entertained at any stage during the contract period.

## 10. Rate Analysis of Bids:

The rates quoted by firms will be evaluated **item-wise**. If a firm is not interested in bidding for a particular item, **diagonally draw a cross line** on the relevant page of bidding document to indicate non-participation for that item.

## 11. Bid Security:

- 11.1 Bid Security Instrument: 5% of the bid amount/total quoted value (refundable), in the form of CDR/Demand Draft/Pay Order/Banker's Cheque drawn on the name of Federal Public Service Commission FTN No.9010202-9 (Please disregard the amount reflected on E-PADS when uploading the record of bid (scanned copy of bid security instrument)).
- 11.2 Cheque / Cash shall not be accepted.
- 11.3 Any e-bid not accompanied by the bid security shall be rejected.
- 11.4 Bid security shall be returned to the unsuccessful bidders on completion of bidding process.
- 11.5 Bid security of the successful bidder shall be discharged after satisfactory completion of warranty period of the supplied equipment.
- 11.6 The bid security shall be forfeited if the bidder fails to enter into contract till the date intimated by the procuring agency i.e. FPSC.

## 12. Amendment in the Bidding Documents:

### 12.1 Modification or Amendment

FPSC may, at any time prior to the deadline for submission of bids, modify or amend the bidding documents by issuing an addendum for any reason, as provided under **Rule 23(3) of the Public Procurement Rules, 2004**.

### 12.2 Extension of Submission Deadline

FPSC may, at its discretion, extend the deadline for the submission of bids, as provided under **Rule 27 of the Public Procurement Rules, 2004**.

## 13. Non-Responsiveness of the Bids:

A bid shall be considered **non-responsive** and not generally in order if:

### 13.1 Lack of Bid Security

The e-bid is not accompanied by the required bid security.

### 13.2 Exclusion of Taxes and Duties

The e-bid price is not inclusive of all applicable taxes, duties, etc.

### 13.3 Missing NTN/GST Certificate

The e-bid is not accompanied by a valid **NTN (National Tax Number)** and **GST (Goods and Services Tax)** certificate.

**13.4 Proof of Active Taxpayer**

The e-bid is not accompanied by proof of being an **active taxpayer**.

**13.5 Contravention of Bidding Documents**

The bid is found to be in contravention of any clause in the **bidding documents**.

**13.6 Specifications / Bid Value is Unclear**

Bid shall be rejected, if rate (s) are incomplete, unclear, conditional, altered or ambiguous multiple options of the items / specifications of product, etc.

**13.7 Missing Information**

Bid shall be rejected if required detail of specifications, brand, origin, make, model, warranty, support period etc. are not clearly quoted / mentioned.

**14. Clarification of Bidding Documents:**

Interested bidder(s) requiring any clarifications regarding the tender documents may submit a query through **E-PADS**, in accordance with the **E-Pak Procurement Regulations, 2023**, within the specified timelines on **E-PADS**.

**15. Supply Order / Work Order:**

After receiving the **letter of Intent (LOI)** and signing the **contract agreement**, the successful bidder will be issued a supply order for supply of equipment within **7 days** of issuance of supply order.

**16. Announcement of Final Evaluation Report:**

**16.1 Announcement of Bid Evaluation Results**

As per **Rule 35 of PPR-2004**, the procuring agency shall announce the results of the bid evaluation on E-PADS in the form of Final Evaluation Report, providing justification for the acceptance or rejection of bids. This report must be announced at least **ten days prior** to the award of the contract.

**17. Right Reserved:**

As provided under Rule 33(1) of Public Procurement Rules 2004, FPSC reserves the right to reject all bids or proposals at any time prior to award of contract, without thereby incurring any liability to the affected Bidder or Bidders. The procuring agency shall upon request communicate to any bidder the grounds for its rejection of its Bids, but is not required to justify those grounds.

**18. Warranty Period:**

The successful bidder shall be responsible for providing a one-year local warranty and service / support free of charge, which includes replacement of parts free of cost.

**19. Inspection / Testing:**

FPSC's Procurement (evaluation) committee shall inspect and test the supplies of product / equipment supplied by the firm / vendors is as per specifications and accessories list after its arrival and installation of product at the procuring agency premises, inspection. Upon issuance of inspection report claim/bill submitted by the firm/vendor will be processed for payment.

**20. Terms of Payment:**

- i. No advance payments would be made.
- ii. Payment shall be made after deduction of all applicable taxes.

**21. Delivery Time:**

The delivery time of equipment/product shall not be more than 7 (seven) days, how any relaxation may be granted as per merit of the case by the procuring agency.

**22. Completion Schedule:**

Successful bidder shall be bound to provide the quoted items after acceptance of Letter of Intent (LOI) and signing of contract agreement with the procuring agency as per given time lines in the bidding document.

**23. Entry into Force of Performance of Service Contract:**

As provided vide Rule 44(a) of Public Procurement Rules, 2004.

**24. Blacklisting of Suppliers and Contractors:**

**24.1** The Procuring Agency, at any stage can blacklist the bidder, suppliers and contractors who either consistently fail to provide satisfactory performances or are found to be indulging in corrupt or fraudulent practices as per Rule-19 of PPR-2004 (amended).

**24.2** The Procuring Agency shall give an opportunity of hearing with the notification, with recorded reasons to the bidders before such passed the orders.

**25. Redressal of Grievances:**

As provided under Rule 48 of Public Procurement Rules, 2004.



**26. Signing of contract agreement:**

- 26.1** Promptly after completion time of publication of final evaluation report on E-PADS and acceptance of Letter of Intent by the bidder, the Procuring Agency shall sign and date the contract agreement.
- 26.2** If the successful Bidder, after completion of all codal formalities shows inability to sign the contract/refuse/accept the contract, then their Bid Security instrument shall be forfeited and the firm shall be blacklisted for a minimum period of six month, in such situation the procuring Agency may make the Award to the next lowest evaluated firm / vendor.
- 26.3** The Contract Agreement shall be made on Stamp Paper having minimum worth of Rs.100/- and the successful bidder shall arrange the stamp paper.
- 26.4** Contract agreement shall be signed by the Director (Logistics) on behalf of procuring agency.

**27. Award of contract:**

Procuring agency (FPSC) will award the contract to the firm/bidder whose bid has been determined to be substantially responsive to the bidding document and who has been declared as most advantageous bidder provided that the such bidder is:

- 27.1** eligible in accordance with the provisions of PPRA rules.
- 27.2** determined to be qualified to perform the contract award satisfactorily.

**28. Procuring Agency's Right to Vary Quantities at the Time of Award:**

Before issuance of work / supply order, the Procuring Agency reserves the right to increase or decrease the quantity of items originally specified in the bidding documents without any change in the unit price or other terms and conditions of the bid and bidding documents.

- 29.** These bidding documents are subject to all provisions of Public Procurement Rules, 2004 and S.R.O. 296(I)/2023, dated 27.02.2023 title "E-Pak Procurement Regulations, 2023" as and where applicable.

**30. Opening of Financial Bid:**

The financial bids of firms/vendors who qualify the eligibility criteria, as outlined in the bidding documents, will be opened for the evaluation of their financial bids.

**31. General Terms & Conditions:**

- 31.1** In this contract the following General terms & Conditions shall be interpreted as indicated.
- 31.2** "The Procuring Agency" means the FPSC or the procuring agency advertised the Invitation to e-bids.
- 31.3** "The contract" means the agreement entered into between the procuring Agency and supplier, as mentioned in tender documents and Public Procurement Rules 2004 as amended from time to time.

- 31.4** The contract price means the price payable to the supplier under the contract for the full and proper performance of its contractual obligations.
- 31.5** "Items" means Supply of Laptop and Desktop Personal Computer which the successful firm / vendor is required to supply to the procuring agency under the contract agreement.
- 31.6** The process of invitation of e-bid shall be single stage one envelope method (*Technical & Financial bids*) as per *Procurement Rule No. 36(a) Public Procurement Rules-2004 as amended from time to time*.
- 31.7** The Procuring Agency has the full right to delete/reject any/whole items in full or part without assigning reason.
- 31.8** The bidder is bound to put / submit the rates item wise.
- 31.9** The Procurement Evaluation Committee shall have the right to inspect and / or test the items to confirm their conformity with respect to specifications mentioned in the bidding document.
- 31.10** Should any inspected or tested goods fail to conform to the specifications the Procurement Evaluation Committee shall reject them and firm / vendor shall replace the rejected item.
- 31.11** All taxes shall be deducted from bill according to the Federal Govt. Rules.
- 31.12** If the firm / vendor to whom the contract is awarded, refuses or neglect to execute the whole agreement/ contract/ some items of the agreement or fail to execute the supply/Work order fully / completed, the amount of performance guarantee shall be forfeited and purchase shall be made further 2<sup>nd</sup> lowest eligible bidder.
- 31.13** The Contract is to be made on *Stamp Paper minimum worth of Rs.100/-*
- 31.14** The items / goods shall be supplied strictly in accordance with the specifications mentioned in the bidding document. In case the firm / vendor is held responsible for supplying the goods which fall below the standard specified in the bidding document, the firm / bidder shall be blacklisted and barred from participation in future tenders or fined or both. Procuring Agency reserves the right to impose any amount of penalty and / or forfeit the bid performance guarantee.
- 31.15** Procuring agency i.e. FPSC reserves the right to accept or reject any or all offers without assigning reason as per Rule 33 of Public Procurement Rules, 2004 as amended from time to time.

**32. PLEASE SEE SPECIFICATIONS AT APPENDIX-A**

**SPECIFICATIONS OF IT / MACHINERY AND EQUIPMENT REQUIRED BY THE  
PROCURING AGENCY**

# **APPENDIX-A**

<b><u>S.NO.</u></b>	<b><u>NAME OF ITEM</u></b>	<b><u>QUANTITY</u></b>	<b><u>ANNEXURE</u></b>
<b>A</b>	Desktop Personal Computers (Core i7)	10 No.	<b>I</b>
<b>B</b>	Laptops (Core i7)	20 No.	<b>II</b>
<b>C</b>	Heavy duty duplex scanners	10 No.	<b>III</b>
<b>D</b>	Servers (Refurbished)	2 No.	<b>IV</b>
<b>E</b>	Mini portable body cameras with live video streaming option	5 No.	<b>V</b>
<b>F</b>	LED Screen / TV (65 inch approximately)	1 No.	<b>VI</b>
<b>G</b>	Firewall (Refurbished)	1 No.	<b>VII</b>

**A. Desktop Personal Computers (Core i7) (10 No.)**

a. Processor:	Intel Core i7
b. Generation:	Minimum 10 <sup>th</sup>
c. RAM:	16 GB DDR-5
d. Storage:	SSD One TB
e. Operating System:	Windows 11 Pro (activated)
f. Processor Speed:	Up to 5 GHz (minimum)
g. Screen size	24 inch full HD resolution
h. Wireless/ wifi:	Wi-Fi
i. USB :	USB 3/3.1/3.2 (minimum two ports) with Type-C support
j. Mouse:	Standard
k. Mouse Pad:	Standard
l. Keyboard	Standard
m. Power cables:	Standard
n. Extension lead	Superior quality (3 sets for 3 pin shoe)
o. Warranty:	Local (One year)

**B. LAPTOPS (Core i7) (20 No.)**

a. Processor:	Intel Core i7
b. Generation:	Minimum 10 <sup>th</sup>
c. RAM:	16 GB DDR-5
d. Storage:	SSD 512 GB
e. Operating System:	Windows 11 Pro (activated)
f. Processor Speed:	Up to 5 GHz (minimum)
g. Screen size	15.6 inch full HD resolution
h. Wireless/ wifi:	Wi-Fi
i. USB:	USB 3 / 3.1 /3.2 (minimum two ports) with Type-C support
j. LAN:	Yes
k. Bag:	Superior quality
l. Mouse:	External (wifi)
m. Mouse Pad:	Standard
n. Keyboard	Backlit
o. Charger/Power cables:	Standard
p. Warranty:	Local (One year)

**C. HEAVY DUTY DUPLEX SCANNERS (10 No.)**

- a. Duplex & Automatic document feeder, Stright paper path
- b. Throughput speed at 300 dpi color: 30 ppm / 60 ipm
- c. Feeder Capacity: 80 sheets of 80 g/m<sup>2</sup>
- d. Minimum paper thickness supported: 30 g/m<sup>2</sup>
- e. Maximum paper thickness supported: 430 g/m<sup>2</sup>
- f. Hi speed USB 3.2 or higher
- g. Daily duty cycle 4000 pages or above
- h. Letter of authorization from the principal manufacturer / OEM
- i. With supporting software
- j. Warranty: One year with service and free parts replacement
- k. Warranty (One year local from the authorized dealer)

**D. SERVERS (REFURBISHED) (2 No.)****a. ONE SERVER (AI)**

- i. Minimum 2<sup>nd</sup> generation intel xeon scalable
- ii. CPU Intel xeon gold 20 cores each pair (total 40 cores)
- iii. 192 GB RAM DDR-4 Minimum 16 GB Each slots
- iv. Single 48 GB GPU or dual SLI (Total 96 GB of video Memory)
- v. Warranty (One year local)

**b. ONE SERVER (STORAGE)**

- i. Minimum 2<sup>nd</sup> generation intel xeon scalable
- ii. CPU Intel xeon gold 20 cores each pair (total 40 cores)
- iii. 8 GB RAM DDR-4 Minimum 8 GB Each slots
- iv. Single 48 TB Storage (six 8 TB SSD disks)
- v. Warranty (One year local)

**E. MINI PORTABLE BODY CAMERAS (5 No.)**

- a. Network: 4G, WIFI, Bluetooth
- b. Video Resolution: 2K Video resolution (minimum)
- c. Recording Time: Continuous recording time: 4 hours at 1080P
- d. Data Protection: AES and USB encryption.
- e. Charging Dock and Connector: USB, type C
- f. Magnetic Dock
- g. Backend Software: Real Time Monitoring/ SOS/ GPS Tracking/ Intercom (CMSV or Other open source protocol RTMP/RTSP/Onvif)
- h. Audio: High Quality Built-in Microphone.
- i. Storage Card: included
- j. Warranty (One year local)



**F. LED SCREEN / TV (65 INCH) (1 No.)**

- a. Android
- b. Screen Size: 65 Inch
- c. Resolution: 3840x2160
- d. 4K UHD Google TV
- e. Smart TV (Youtube, Internet Browsing)
- f. Size: 65 Inch
- g. Warranty (one year local from authorized dealer)

**G. FIREWALL (REFURBRISHED) (1 No.)****Mandatory System Performance and scaling requirements:**

- i. Next Generation Firewalls, with three years of below subscription and support services.
  - 1. Application Visibility
  - 2. Advanced Intrusion Prevention System
  - 3. Full/Extended Antivirus Database, Anti-Spyware
  - 4. URL Filtering
  - 5. File Blocking and Filtering
  - 6. Quality of Service
- ii. The Next Generation Firewall must deliver at least 01 Gbps of application firewall throughput with Application Visibility and User Identification enabled.
- iii. When enabled below threat features, Firewall should deliver at least 630 Mbps throughput utilizing 64K HTTP transaction using real-world enterprise traffic mix:
  - a. Advanced/Extended Intrusion Prevention System with all signatures/anomalies and severities
  - b. Full/Extended Antivirus Database Scan
  - c. Anti-Spyware
  - d. Anti-botnet
  - e. URL Filtering (including user notification, safe search enforcement etc.)
  - f. File-blocking and File-filtering (DLP)
  - g. Sandboxing for all supported file types
  - h. Application Identification
  - i. User Identification (agentless)

**LOGGING ENABLED**

- iv. NGFW Performance must not be affected when enabling any of the below features and must still commit to the minimum throughputs
  - a. Logging and storing it on local HDD.
  - b. All management features like SSH, HTTPS, SNMP, etc
  - c. Scheduled threat prevention DB updates up to the level of checking every 1 minute to ensure best security coverage.
  - d. Multiple alert systems like Syslog, SNMP and others at the same time.
  - e. All applications inspections.
  - f. Changing the order of the security rules.
  - g. Using all IPS signatures for all supported applications with extended packet captures for critical to high severity alerts.
  - h. Virtual Context should not impact the firewall performance
- v. Administrators must not have to apply any tradeoff between security and performances, choosing to use in any security profile different versions of signature databases, for IPS with reduced numbers of element.

- ix. Administrators must not have to apply any tradeoff between security and performances, choosing to use in any security profile different versions of signature databases, for Antivirus and malware scanning with reduced numbers of element.
- xi. The proposed firewalls shall deliver at least 1.0 Gbps IPSEC VPN throughput based on 64K HTTP Transaction Size
- xiii. Dedicated high availability ports (preferably 1G ports).
- xiv. High Availability, Active / Active with Asymmetrical Routing support and Active/Passive
- xv. Proposed Solution must support QoS (marking and/or traffic shaping) for multiple classes at the same time and must be able to make policy as below:
  - 1. QoS Policy-based traffic shaping (priority, guaranteed, maximum)
  - 2. QoS Policy-based diffserv marking
  - 3. QoS Policy-based on application category, users/groups or any combination
- xvi. The proposed firewalls must have at least network ports as follow:
  - a. (8) 10/100/1000
  - b. (4) 1Gbps SFP
- xvii. Reporting: Solution should provide granular reporting (with query builder)
- xviii. Reporting: Network Log storage for at least 30 days
- xix. Reporting: The proposed firewall shall support real time interactive graphical dashboard to highlight high risky applications, suspicious app- centric content and users
- xx. Reporting: The proposed firewall has the ability to schedule PDF report generation and send it over email
- xxi. Data Filtering: The firewall should be capable of identifying and optionally preventing the transfer of various files (i.e. MS Office, PDF, etc.) via identified applications (i.e. P2P, IM, SMB, etc.)
- xxii. Data filtering: Social Security Numbers, Credit Card Numbers any regex pattern
- xxiii. Data filtering: Custom Data Patterns

## **FUNCTIONAL REQUIREMENTS**

- ii. Proposed Firewalls should be able to decrypt TLS 1.2 Traffic with RSA-AES256-GCM-SHA384 with 2K keys at server response packet size of 1500 bytes
- iii. Possibility to support internally developed applications with application ID customized manually by the customer
- iv. The NGFW platform shall support dual IPv4 and IPv6 stacks application control and threat inspection support in tap mode, transparent mode L1, layer 2 and layer 3
- v. The NGFW platform shall support multiple virtual routers to run different set of routing protocols (Interfaces can be binded to different virtual routers)
- vi. Anti-Virus should not reduce the IPS inspection throughput and should be able to give full threat prevention capabilities
- vii. Anti-Spyware should not reduce the IPS inspection throughput and should be able to give full threat prevention capabilities

- viii. Advanced malware protection to prevent unknown modern targeted attacks and APTs
- xiv. The proposed solution should be able decrypt ssh/ssl/tls 1.2 protocols and extend Advance Malware Protection to all file types over HTTP, HTTPS, POP3, IMAP, FTP, SMTP and SMB
- xv. The proposed firewalls shall support Denial of Service (DoS) and fragmented packet Transmission Control Protocol (TCP) reassembly, brute force attack, “SYN cookie”, “IP spoofing” and malformed packet protection.
- xvi. The proposed firewalls shall support transparent and tap mode within the appliance.
- xvii. The proposed firewalls shall support 802.1Q Virtual Local Area Networks (VLANs) tagging (in tap, transparent, layer 2 and layer 3).
- xviii. The proposed firewalls shall support dual IPv4 and IPv6 stacks application control and threat inspection support in tap mode, transparent mode, layer 2 and layer 3.
- xx. The proposed firewalls shall support policy-based forwarding based on zone, source or destination address, source or destination port, application and users/groups imported from Active Directory (AD)/ Lightweight Directory Access Protocol (LDAP) Remote Authentication Dial In User Service (RADIUS) user or user groups.
- xxi. Should support network traffic classification which identifies applications across all ports irrespective of port/protocol/evasive tactic
- xxii. The proposed firewalls shall support IPv6 routing for virtual routers.
- xxiii. Should provide hot swap fans and redundant power supplies
- xxiv. Should support XML API that would allow the firewall to be integrated with any known NAC, and WLAN controllers for user identification
- xxv. Should support Syslog Receiver feature that would allow the firewall to be integrated with any known NAC, and WLAN controllers for user identification
- xxvi. Firewall should support Voice based protocols (H.323, SIP, SCCP, MGCP etc.)
- xxvii. The firewall should be capable of identifying and optionally preventing the transfer of various files (i.e. MS Office, PDF, etc.) via identified applications (i.e. P2P, IM, SMB, etc.)
- xxviii. The firewall should take decision based on different matching parameters not based on layer4 parameters. It should be based on applications, URL categories, device state, IP addresses, security zones, username/group(s)
- xxix. Policies based on port-and-protocol And Application as the match criteria (application decision should not be done separately)
- xxx. Support Geographical Location policy in a security rule, where connections going to a country or countries can be blocked

### **Threat Prevention: Next Generation IPS**

- i. Block viruses, spyware, malware and network worms and vulnerability exploits within content of application content

- ii. File blocking by type and application
- iii. Anonymous Botnet Detection
- iv. Blocks application vulnerabilities
- v. Block known network and application-layer vulnerability exploits
- vi. Block buffer overflow attacks
- vii. Block DoS/DDoS attacks; it shall support Denial of Service (DoS) and fragmented packet Transmission Control Protocol (TCP) reassembly, reconnaissance attacks, brute force attack, “SYN cookie”, “IP spoofing” and malformed packet protection.
- viii. Supports attack recognition for IPv6 & IPv4
- ix. Stream-based protection and scanning for Anti-Virus & Antispyware
- x. Built-in Signature and Anomaly based IPS engine
- xi. Ability to create custom user-defined signatures
- xii. Supports CVE-cross referencing where applicable
- xiii. Supports automatic security updates directly over a secure connection (i.e. no dependency of any intermediate device)
- xiv. All Threats should be part of application context
- xv. The platform should be capable to enforce various threat prevention profiles on different applications running on same L4 session

### **Advanced Malware Prevention**

- i. Identifies unknown malware and zero-day exploits using advanced static and dynamic analysis techniques
- ii. Should support anti-evasion capability which is tested against advance evasion technique.
- iii. Cloud-based detection architecture or self-contained on-premises Sandboxing system
- iv. Malware analysis should support files from Windows, Linux, Mac OS and Android platform
- v. Drive-by Download Detection & Protection
- vi. Dynamic Analysis should include but not limited to: changes made to hosts, suspicious network traffic, anti-analysis detection plus more potentially malicious behaviors

### **Antivirus/Anti-Spyware:**

- i. Per-application antivirus or anti spyware scanning options
- ii. Per-category scanning options
- iii. Phone-home detection/blocking
- iv. Malware site blocking
- v. DNS-based botnet signatures
- vi. DNS Sink holing for Malicious and fast-flux domains

### **URL Filtering:**

- i. Multi-category filtering
- ii. Customizable allow and block lists

- iii. Customizable block page & coaching pages
- iv. Custom categories
- v. Database located locally on the device
- vi. Supports block and continue (i.e. allowing a user to access a web-site which potentially violates policy by presenting them a block page with a warning with a continue option allowing them to proceed for a certain time)

#### DNS Security:

- i. Neutralize DNS tunneling
- ii. Predict and stop DGA-leveraging malware with real-time domain query analysis
- iii. DNS threat detection methods using the modular and infinitely extensible DNS Security cloud-based service

#### Data Filtering:

- i. Files should be identified by file types or by signature
- ii. The firewall should be capable of identifying and optionally preventing the transfer of various files (i.e. MS Office, PDF, etc.) via identified applications (i.e. P2P, IM, SMB, etc.)
- iii. Compressed information stored in zipped files should be able to be unpacked and filtered per policy
- iv. The firewall should be capable of identifying and optionally preventing the transfer of files containing sensitive information (i.e. credit card numbers) via regular expression
- v. Should not have any file size limitation in checking content for keywords
- vi. The platform should be capable to enforce file blocking on different applications running on same L4 session
- vii. Control Drive-By Download (Files which are downloaded/transferred via web applications without knowledge of the user - it might have an exploit that can attack end-user's workstation)

#### **User Identification:**

- i. Should support the following authentication services for user-identification: -

#### **Active Directory**

- i. LDAP
- ii. eDirectory
- iii. Radius
- iv. Kerberos
- v. Client Certificate
- vi. Captive Portal
- vii. Terminal Server
- viii. Supports the creation of security policy based on Active Directory Users and Groups in addition to source/destination IP
- ix. Users from Citrix and terminal services environments should be supported in policy and logs
- x. Populate all logs with user identity (traffic, IPS, URL, data, etc.)

- ix. Logged user-identification correlated in real-time
- x. Should support REST XML API that would allow the firewall to be integrated with any known NAC, and WLAN controllers for user identification
- xi. Should support built in syslog server for collecting user identification logs from unix, and any network controller (WLAN, NAC) for user identification

### **Networking**

- i. Tap Mode, Layer 2, and Layer3 (should be supported in the same virtual system at the same time)
- ii. Can be deployed as virtual wire (Layer 1 with no change to MAC nor Ip addresses). Bump in the wire technology
- iii. RIPv2, OSPFv2 and BGP
- iv. Policy based routing
- v. Policy based routing with application as matching criteria

**Warranty : One year (local)**

**33. BID FORM TO BE SUBMITTED / UPLOADED BY THE BIDDER ON E-PADS:**

**Specification of Quoted Items:** Kindly ensure that the specifications of the quoted items are provided in full detail. This is crucial to prevent any rejection of your bid due to incomplete or unclear item descriptions. After completing the bid form(s), upload the documents to the E-PADS system. A signed copy as uploaded on the E-PADS shall also be provided at the time of bid opening.

**NOTE: KINDLY FILL THIS FORM ON COMPUTER AND UPLOAD PRINT OUT FOR CLEARNESS.**

<b>S.No.</b>	<b>Name of Item / product / equipment</b>	<b>Specifications quoted with one year warranty/support period as specifications provided in the bidding document</b>	<b>Rate of Single item inclusive of all applicable taxes for the FY 2024-2025</b>	<b>Total Rate Quoted for complete quantity inclusive of all applicable taxes for FY 2024-2025</b>

**Amount in words:** \_\_\_\_\_

**Signature of firm representative:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Firms Stamp:** \_\_\_\_\_

**Cell No.** \_\_\_\_\_

**Landline No.** \_\_\_\_\_