



POF 1262-A  
INDIGENOUS SUPPLIES

**Government of Pakistan  
PAKISTAN ORDNANCE FACTORIES  
TENDER ENQUIRY**

To

\_\_\_\_\_

\_\_\_\_\_

Dear Sir,

REFERENCE: **TENDER ENQUIRY NO. 0001-LP(SCM)-IT-CAPT-PUR-A, DATED: 12.05.2022**

You are requested to submit sealed competitive quotation for the item(s) noted on the schedule to the Tender as per PPRA Rule 36(b), i.e., single stage two envelope procedure. Please note the following instructions for filling the tender:-

**1. SUBMISSION OF TENDER**

1.1 Tenders will be opened at **1200** hours on **30.05.2022** and must reach **Bid Center adjacent to Rabita Hall** on or before **1130** hours upto due date. The tender received late will not be entertained. You may witness the opening of the tender if you so desire. If a representative is deputed, he should bring a letter of authority from you.

1.2 Only one tender should be included in one envelope. The outside of the envelop should be inscribed with:-

**Tender Enquiry No: 0001-LP(SCM)-IT-CAPT-PUR-A, DATED: 12.05.2022**

**Tender to be opened on: 30.05.2022**

**Address as follows:-**

**"G.M.-PURCHASE-I Bid Center adjacent to Rabita Hall POF WAH CANTT"**

**2. GENERAL INSTRUCTIONS REGARDING PREPARATION OF QUOTATIONS AND EVALUATION CRITERIA:**

2.1 For Materials, the prices should be filled in column 5 and delivery date in column 6 of schedule to this Tender Enquiry. The undertaking should be signed at the bottom of the schedule which shall form Quotation. You may use separate sheet if necessary. Moreover, technical & commercial evaluation of Bids will be carried out strictly as per **PPRA rules** and contract will be awarded to the **lowest evaluated bidder**.

2.2 **For plant and machinery, as per PPRA rule 36(b), Single Stage Two Envelope method** is/will be utilized for "Open competitive bidding. Therefore, you are required to quote in two parts:-

**Part I "Technical Bid.** It should exclusively give technical details and literature/brochures of the offered plant, machinery and equipment; validity date; delivery schedule and signed undertaking given on the schedule to this Tender Enquiry. It must not indicate price, costs etc.

**Part II "Commercial Bid":** It should indicate the commercial terms e.g. price, terms of payment, mode of payment, mode of supply.

Each part should be placed in a separate sealed cover. The envelopes should be inscribed with Part I "Technical Quotation without Price" and Part II "Commercial Quotation with Price".

**Note:- Since the instant tender is for Plant & Machinery item therefore, technical & commercial bids/terms must be sealed in Two Separate envelopes.**

- 2.3 The quotation must remain valid for, at least 90 days from the date of opening of tenders.
- 2.4 The quotation should hold good for any reduced quantities without notice.
- 2.5 In the event of non-acceptance of offer, intimation may be given to the Tenderers on their request.
- 2.6 Conditional offers or alternative offers are likely to be ignored.
- 2.7 Quotations should be based on:-  
  
F.O.R. station of dispatch basis, i.e. delivered free on rail, inclusive of packing and forwarding charges. The stores will be booked under Military Credit Note, to be provided by the purchaser. **Free delivery at Central Stores POF Wah Cantt.** In this case Octroi duty if any, will be payable by the supplier.
- 2.8 Taxes and Duties etc. where applicable, must be shown separately, quoting reference to Registration No. in cases of Sales Tax and relevant authority in the case of others. Offer without these clarifications and inclusive of Taxes and Duties may be ignored.
- 2.9 Taxes and duties levied on or after Tender opening date or on or after the date the offer was signed and dispatched will be allowed to include in the offered rates provided that clause 2.8 has been confirmed properly.
- 2.10 "Suppliers will furnish a certificate, issued by Excise & Taxation Deptt: that he has cleared all Professional Tax payable by him" offers received without this certificate may be rejected.
- 2.11 If the requisite information is not furnished on the T.E forms or offer received is not in conformity with the requirement of T.E such offer shall be ignored.
- 2.12 The supplier will render necessary information regarding hazardous effects on environment of the material/products supplied by them, along with dispatch documents.
- 2.13 Special conditions must be carefully studied and conformed.

### **3. INSPECTION**

- 3.1 Supplies shall be subject to the inspection and acceptance by the competent inspection authority nominated by the Purchaser, who will arrange it at his own cost. Inspection facilities such as tools, test equipment, instruments etc will, however, be provided by the Suppliers in accordance with the relevant specifications.
- 3.2. Where considered necessary by the Purchaser, the stores may be obtained on Warranty/Guarantee subject to inspection on receipt. Rejected stores will be removed and replaced with the acceptable stores by the Supplier at his own expense, within a specified time.

### **4. TENDER FEE**

The tender must be accompanied by a non-refundable fee by means of a crossed postal order/pay order for Rs 500/- in favour of Director Admin POFs Wah Cantt.

## 5. BID SECURITY

- 5.1 Bid Security at the rate of **2%** (for firms registered with POF) **and 5%** (for un-registered firms) of the quoted value, should be attached with the commercial part of the tender in the shape of Deposit At Call Receipt., from a scheduled Bank drawn in favour of:-

**“General Manager-Purchase-I, POF Wah Cantt.”**

Tenders received without /less Bid Security will be rejected.

- 5.2 Bid Security of the unsuccessful tenderers will be returned as soon as the scrutiny of the tenders is completed. Bid Money of the successful tenderers will be retained until the contract is finalized. Bid Money will be forfeited in case the quotation is withdrawn before the expiry of its validity date.

- 5.3 State owned organizations are not required to provide Bid Security.

## 6. ACCEPTANCE OF OFFERS

- 6.1 POF may reject all bids or proposals at any time prior to the acceptance of a bid/bids or proposal, but is not required to justify grounds for its rejection. POF shall incur no liability towards suppliers or contractors who have submitted bids or proposals.

### 6.2 PERFORMANCE BOND

- (a) The successful bidders shall provide performance bond which shall not exceed 10% of the contract amount in the form of a **Deposit at Call Receipt** from a scheduled Bank or an **un-conditional Bank Guarantee** on the prescribed format. The Performance Bond will be in favour of **C.M.A.,Wah Cantt** and will be returned on satisfactory completion of the contract:-
- (b) If the **Supplier fails to furnish the Performance Bond within the specified time**, such failure will constitute a **breach of the contract** and the Purchaser shall be entitled to make other arrangements for purchase of the stores at **the risk and expenses** of the Supplier.
- 6.3 Performance Bond from State owned organizations may be waived off at the discretion of the Purchaser.

### 6.4 FAILURE TO SUPPLY THE STORES:

All deliveries must be completed by the specified date. In case of failure to deliver the stores within the scheduled time should have arisen from "Force Majeure", which the purchaser may admit as reasonable ground for further time, he will allow such additional time as he may consider to have been required by the circumstances of the case. Otherwise, he will be entitled, at his description, to cancel the contract; and/or claim liquidated damages **upto 2% but not less than 1% of the contract price** of the items and their quantities for each and every month or part of a month, beyond the specified delivery date, during which these may not be delivered, **subject to a maximum of 10% of the total contract value**; or, to **purchase from elsewhere, the unsupplied stores at the risk and cost of the supplier.**

**6.5 PAYMENT**

Payment will be made by the C.M.A. through crossed cheques on receipt/acceptance of stores on our prescribed bill form supported by receipt voucher & other essential documents on part/full supply basis.

**7. SECURITY OF INFORMATION**

The tenderer and his employees must not communicate any information relating to the sale/purchase of stores under this enquiry to any person other than the manufacturer or to any press or agent not authorized in writing by POFs to receive it. Please return the Schedule to the Tender duly signed by the specified date, alongwith the specifications, drawings etc.if any, enclosed herewith - even if you are unable to quote.

Yours faithfully

MANAGER-PURCHASE-I

**Contact info:**

**Tele No. 051-4514-22269**

**051-9055-22269**

**051-4514-22126**

**051-9055-22126**

**Fax No. 051-9271400 & 051-9314100**

**E,mail: [procurement@pof.gov.pk](mailto:procurement@pof.gov.pk)**

Copy to:-

Director-IT

Manager- SCM (Coord)

Manager-IT

Rep of 699 FIU

Manager-PRO

**SCHEDULE TO TENDER NO. 0001-LP(SCM)-IT-CAPT-PUR-A, DATED: 12.05.2022**

(1) For Plant &amp; Machinery:

(1) Item No.	(2) Description with Specs. etc.	(3) A/U	(4) Qty	(5) Price per unit FOR or free delivery		(6) Delivery Date
				In Figure	In Words	
1.	Server H3C UniServer R4900 G5 or Equivalent.	Nos	05			Immediate.
2.	SAN Dell EMC-ME 4024 or Equivalent	No	01			
3.	NAC Software or Equivalent.	No	01			
4.	Firewalls FortiGate 201F Series or Equivalent.	No	01			
5.	Firewalls FortiGate 101F Series or Equivalent.	Nos	02			
6.	PC DELL OptiPlex 3090 Core i5 10 <sup>th</sup> Gen Or Equivalent.	Nos	200			
7.	Scanners Multi Feed Fujitsu Fi-7030 Front Office Color Duplex Document Scanner with Auto Document Feeder (ADF) Or Equivalent	Nos	39			
8.	Bar Code Printer Zebra ZD 230/888 or Equivalent (With Accessories).	Nos	16			
9.	Wireless Bar Code Scanner Black Copper BC-F or Equivalent.	Nos	16			

(2) Technical Specifications: -

**Attached as Annexure A**

(3) Special Conditions: -

- i. Only single competitive rate must be quoted against each T.E item. The quotation must hold good for 90 days from the date of commercial opening (extendable if so desired)
- ii. **Rate** and **sales tax** must be shown **separately**. Otherwise your quoted rates will be considered **inclusive of GST**.
- iii. Only one rate should be quoted on the tender schedule. Otherwise offered items having multiple rates may be rejected.
- iv. As per **T.E clause, 2.2** you are required to quote **in two parts**, Each part should be placed in a separate sealed cover. The envelopes should be inscribed with: **Part I "Technical Quotation without price"** and **Part II "Commercial Quotation with Price."**
- v. Offer **without/Less Bid Security** and **Tender Fee** may not be considered.
- vi. Date and stamp of the postal order must be visible.
- vii. **PTC** issued by Punjab/Relevant Province must be provided.
- viii. Unregistered firms are required to provide **Annexure-B** duly filled /signed and stamped along with quotation.
- ix. **Status** of your firm with POF (**registered/un-registered**) should be mentioned in your offer. Registered firms are required to provide copy of valid registration

letter with POF.

- x. Grand total of offer must be mentioned in your quotation.
- xi. a. Only registered suppliers (with Sales Tax & Income Tax Deptt.) who are on Active Taxpayers List (ATL) of FBR are eligible to supply good/services to Government departments.
- xii. b. The payment to the registered persons may be linked with the active taxpayer status of the suppliers as per FBR database. If any registered supplier is not in ATL his payment should be stopped till he files his mandatory returns and appears on ATL of FBR.
- xiii. Technical Literature (in English Language/version) must be provided at the time of **competitive bid submission**.
- xiv. **Bank statement** of last **02 years** to be attached.
- xv. Only **one offer/brand** against each item may be quoted.
- xvi. Conditional offer contrary to PPRA Rules and or our T.E requirement will be ignored.
- xvii. Bid security is required to be attached with commercial offer.
- xviii. Firms Registered with SECP will be given preference.

(5) **Undertaking**

Should our offer be accepted, we hereby undertake to supply the store/render the services contracted on the basis of General Conditions of Contract embodied in Form POF 1281, and to deposit the performance bond within the prescribed time, failing which it will constitute a breach of contract, and POF will have the right to purchase the store/services elsewhere at our risk and cost.

Place \_\_\_\_\_  
 Date \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature of the tenderer \_\_\_\_\_  
 Name \_\_\_\_\_  
 Position \_\_\_\_\_  
 Address \_\_\_\_\_  
 Income Tax G.I.R. No. \_\_\_\_\_  
 Official Stamp \_\_\_\_\_

Annexure-BSUPPLIER'S CAPABILITY

1. NAME OF THE FIRM: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 \_\_\_\_\_

2.1- TELE:NO: \_\_\_\_\_

2.2- FAX NO: \_\_\_\_\_

2.3- E.MAIL ADDRESS: \_\_\_\_\_

2. WHETHER PUBLIC LTD, PRIVATE LTD, PARTNERSHIP  
 OR SOLE PROPRIETORSHIP: \_\_\_\_\_

3. ESTABLISHED SINCE: \_\_\_\_\_

4. CAPACITY: (Manufacturer / Stockist/Agent to foreign Firm): \_\_\_\_\_

5. IF MANUFACTURER, PROVIDE FOLLOWING DETAILS:

5.1- RANGE OF PRODUCTS MANUFACTURED: \_\_\_\_\_

5.2- DETAIL OF PLANTS, MACHINERY AND MAJOR EQUIPMENTS:  
 (Attach separate sheet if required):  
 \_\_\_\_\_  
 \_\_\_\_\_

6. INSPECTION/QUALITY ASSURANCE FACILITIES: \_\_\_\_\_

7. ISO-9000 CERTIFIED IF SO ATTACH NECESSARY DOCUMENTS

8. IF STOCKIST, PROVIDE FOLLOWING:-

11.1- DETAILS OF STOCKS HELD:- \_\_\_\_\_

11.2- APPROX. STOCK VALUE \_\_\_\_\_

11.3- LOCATION OF STOCKS: \_\_\_\_\_

ORGANISATIONAL DETAILS.

9. WHETHER THE FIRM IS REGISTERED WITH THE FOLLOWING DEPTTS.  
 (Give registration No., Date and attach copies of the necessary documents).  
 \_\_\_\_\_  
 \_\_\_\_\_

10.1 DP/ARMY OR ANY GOVT./SEMI GOVT. DEPTT: \_\_\_\_\_

10.2- IMPORT TRADE CONTROL DEPTT: \_\_\_\_\_

10.3- SALES TAX DEPTT: \_\_\_\_\_

10.4- INCOME TAX DEPTT: \_\_\_\_\_

FINANCIAL STATUS: \_\_\_\_\_

(Bank certificate to be attached)

Signature \_\_\_\_\_

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

Stamp; \_\_\_\_\_

Position: \_\_\_\_\_

**Technical Specification****1. Server H3C UniServer R4900 G5 or Equivalent. (Qty -05 Nos)****Specifications**

<b>S.No</b>	<b>Nomenclature</b>	<b>Specifications</b>
I.	Servers	Servers Dell / HP 380 G10 Or Equivalent
II.	Form Factor	Must be Maximum 2U Rack Mountable Server
III.	Processor	There shall be at least 2 physical processor slots. 2 x Intel Xeon 4310 (2.1GHz/12Cores/18MB/120W)
IV.	Drive Slots	Chassis with 8x2.5-inch Drive slots or higher, field upgradable to 24x2.5-inch Drive slots
V.	Front Panel	Quick Removable Front Panel/Cover
VI.	Memory	8 x 32GB DDR4-3200 Memory, server must support minimum 32xDIMM slots. Advanced ECC with multi-bit error protection, Online spare, mirrored memory and fast fault tolerance
VII.	OS Boot SSDs	2x 1 TB SSDs for OS Boot
VIII.	RAID Controller	RAID Controller, 12Gbps, Support RAID 0/1/5/10
IX.	Cooling	Minimum 6xRedundant Hot Plug Fans or higher
X.	Rack Mounting Accessories	Server Rack Mounting Kit with sliding rails and Cable Management Accessory
XI.	Network	4x 1G Base-T Network Ports, 2x Dual Port 10G SFP+ Network Cards with 4x DAC Cables 3m.
XII.	Expansion Slots	Required min 3x PCIe slots, upgradable upto Eight PCI-Express slots
XIII.	System Management	Embedded Remote Management with dedicated RJ45 port, Enterprise/Advanced License.
XIV.	Security	Must support, FIPS (Federal Info Processing Std) 140-2 validation, CNSA (Commercial National Security Algorithms), Secure Recovery (Recover critical firmware to known good state on detection of compromised firmware), Secure Erase of User Data
XV.	Ports	Required 2 VGA, 6xUSB 3.0 ports, Dedicated USB port for Server Management, 1 independent management console port,1 serial port, 1 Type-C port.
XVI.	Power Supply	2xHot-plug Redundant Power Supply 800W with PDU style Power Cords
XVII.	Supported OS	Support Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware ESXi
XVIII.	Operating temperature	5°C to 40°C
XIX.	<b>Warranty/Support</b>	Equipment Should be with <b>Standard 3 Year Warranty</b> and Support backed by OEM



## 2. SAN, Dell EMC-ME 4024, Or Equivalent (Qty -01 No)

### Specifications

S.No	Nomenclature	Specifications
I.	Form Factor	Must be Maximum 2U Rack Mountable SAN
II.	Architecture	The storage array must have dual, redundant, hot-pluggable, active-active array controllers for high performance and reliability
III.	Cache	<ol style="list-style-type: none"> <li>1. Offered Storage Array shall be given with Minimum of 24GB Total cache.</li> <li>2. Cache shall be backed up in case of power failure for indefinite time either using batteries or capacitors or any other equivalent technology.</li> <li>3. Offered Storage must also have support for Flash cache using SSD / Flash drives minimum 8TB or higher.</li> </ol>
IV.	Capacity & Scalability	<p>5x 500 GB 2.5" Hot Plug SSD.            16x 2.4TB 2.5" Hot Plug HDD 10K SAS 12Gbps.</p> <p>Storage shall be scalable to minimum of 240 number of SAS SFF drives.            Offered storage array must also have support for FIPS 140-2 validating self-encrypted drives.</p>
V.	Front-end Ports & Back-end Ports	<ol style="list-style-type: none"> <li>1. Offered Storage system shall be supplied with 4x 10Gbps SFP+ ports per controller.</li> <li>2. 8x 3m DAC cables</li> <li>3. Offered storage system must have 12G SAS Back-end connectivity.</li> </ol>
VI.	No Single point of Failure	Offered Storage Array shall be configurable in a No Single Point of Failure configuration including Array Controller card, Cache memory, FAN, Power supply etc.
VII.	Raid Support	<ul style="list-style-type: none"> <li>• Offered Storage System shall support Raid 1, 5 and Raid 6</li> <li>• Raid processing shall be offloaded to dedicated purpose-built IC/Chip instead of CPU.</li> <li>• In case vendor is not supporting it then vendor shall ensure that additional 12GB cache per controller is configured to offset the raid processing workload.</li> <li>• Offered storage array shall have the support for distributed hot spare</li> </ul>
VIII.	Features	<ul style="list-style-type: none"> <li>• Offered Storage array shall be configured with array-based Snapshot and clone functionality and shall be configured for minimum of 512 snapshot licenses or higher.</li> <li>• Offered storage subsystem shall support storage-based replication to DR location. License for maximum supported capacity of the array shall be offered.</li> <li>• Offered Storage shall be offered and configured with Thin Provisioning capability.</li> <li>• Offered Storage shall also be configured for Data tiering in real time across different type of drives within a given pool like SSD, SAS, NL-SAS etc. License shall be configured for maximum supported capacity of the array.</li> <li>• Offered storage array shall have plug-in for VMware VCenter, Microsoft System center as well as vStorage APIs (VAAI) for array integration.</li> <li>• Storage Subsystem shall support minimum of 512 LUNs. Storage Array shall also support creation of more than 120TB volume at controller level.</li> <li>• Offered Storage shall have inbuilt performance management software. Configuration Dashboard shall show overall IOPS and MB/sec performance.</li> </ul>

IX.	Rack Mounting Accessories	Rack Mounting Kit
X.	Implementation	Implementation of proposed storage must be included.
XI.	Operating temperature	5°C to 35°C
XII.	<b>Warranty/Support</b>	Equipment Should be with <b>Standard 3 Year Warranty</b> and Support backed by OEM

### **3. NAC Software or Equivalent (Qty-01 No)** **Specifications**

<b>S.No</b>	<b>Specifications</b>
I.	Support distributed virtualization deployment for resource topology, alarm, and performance modules, realize load balance and meet unified management of large-scale network environment.
II.	Support Windows, Linux OS and MS SQL, Oracle DB, B/S architecture.
III.	Support hot standby or cold backup software deployment
IV.	Support administrator to set different management right and scope
V.	Support custom user homepage, widget extension.
VI.	Support automatic discovery topology, automatic discovery all network devices, custom modification, including device, link.
VII	Support IP, Layer 2 , custom view, Vxlan, neighbor, LLDP-MED, traffic , data center , data center rack, IRF, MDC virtual network, MDC and multiple topological types
VII	Support device fault alarm real-time monitoring, unified browsing, intelligent alarm analysis and multiple reminder.
IX.	Support task-based performance monitoring, send different level alarm according to different thresholds.
X	Provides intuitive device panel view to check the device, board and port working status, and provide device, board, and port configuration function based on the device panel.
XI	Support virtual network resource management, virtual network topology display, virtual network alarm management, virtual network performance monitoring, virtual switch configuration management, and virtual network configuration migration management.
XII	Support resource, performance, alarm, topology and panel management in IPv6 environment, including pure IPv6 network and dual-stack IPv4 & IPv6 network.
XIII	Support device configuration centralized management, batch device configuration backup and restore.
XIV	Support device software intelligent upgrade and non-stop service software upgrade ISSU.
XV	Support Syslog receiving, parsing and storage, provide Syslog feature analysis and policy registration capability, aggregate based on statistical rules to generate alarm (Trap);
XVI	Support business linkage control, execute linkage control on matching events (Trap) according to the predefined linkage strategy
XVII	Support illegal access device and mac address monitoring
XVIII	Support VLAN network management and topology, batch deploy access port, trunk port, hybrid port and VLAN, and manages VLAN resource visually.
XIX	Provide multiple report styles, including row and column reports, main / sub reports, graphic summary reports, cross tables, TopN and BottomN reports.

XX	Support daily / weekly / monthly / quarterly / semi-annual / yearly periodic report, support report logo customization and send to designated mailbox regularly
XXI	Support report export, including RTF, Excel, HTML, PDF, XML, CSV, TXT format
XXII	Support manage third-party device registration, Mib compilation, configuration management and CLI delivery, configuration backup, software upgrade and system integration.
XXIII	Provide REST and SOAP-based interface & northbound SNMP interface open capability
XXIV	Support PAP, CHAP, EAP-MD5, EAP-PAP, EAP-TLS, EAP-PEAP-MSCHAPV2, EAP-PEAP-MD5, EAP-GTC, EAP-TTLS 802.1X access authentication
XXV	Support pure web with customized page and client without installation portal authentication
XXVI	Support IPv6 pure portal authentication under NAT environment and sensitive authentication
XXVII	Support smart terminal registration and authentication page customization, preset template customization or import third-party authentication
XXVII	Support certificate, wireless WAPI, RSA RADIUS authentication and roaming
XXIX	Support LDAP authentication, synchronize account information and authorization from LDAP server
XXX	Support dumb terminal authentication and configuration modification
XXXI	Support binding user name, password and user IP, MAC, VLAN, device IP, device port, host name, domain user, SSID, AD domain, hard disk serial number, IMEI, motherboard serial number for authentication.
XXXII	Support ACL, VLAN access authority policy, control user access right to network dynamically
XXXIII	Support account access control and management, blacklist restricted access, expired accounts cancelled automatically
XXXIV	Support online user management, viewing user status, connected network device information, specific access location information online, perform operations such as sending messages, online checking, forcibly going offline, closing ports to illegal users, provide remote assistance to offline user.
XXXV	Support user self-management, registration application, background auditing, and user self-service information management
XXXVI	Support preventing ARP attacks from spoofed gateway
XXXVII	Support guest sensitive authentication across devices, one access for visitor
XXXVIII	Support guest access control and behavior audit, binding guest account and device IP address, access port, VLAN, user IP address, MAC address, SSID for authentication
XXXIX	Support third-party system and guest portal authentication for SSO single sign-on
XXXX	The solution must include license for NAC (802.1x, RADIUS, or equivalent) for 5000 devices
XXXXI	The NAC solution must be able to integrate with all major Networking brands.
XXXXII	Provide secondary development interface to achieve connection with customer database, ID card scanning system, achieve personalized network access authentication methods Equipment Should be with <b>Standard 3 Year Warranty</b> and Support backed by OEM

#### 4. Firewalls FortiGate 201F Series or Equivalent (Qty – 01 Nos)

S.No	Specifications
I.	Must Have Minimum 5 Gbps for IPS and 3 Gbps for NGFW Throughput
II.	Must Have Minimum 3Gbps Threat Protection Throughput
III.	The minimum number of concurrent sessions should be at least 3 Million or more
IV.	The number of new connections per second should be at least 100,000 or more
V.	The proposed solution minimum includes 480 GB SSD for storage
VI.	Must Have Minimum 12 x 1G Ethernet Interfaces
VII.	Must Have Minimum 2 x 1G SFP Interfaces with 2XSFP Transceivers Modules
VIII.	Must have 2 x 10GE SFP slot.
IX.	Required Redundant AC Power Supply
X.	The proposed Firewall should support Active/Standby Clustering
XI.	Must Quote Minimum 100 Concurrent Users for SSL VPN
XII.	Must Include Intrusion Prevention System (IPS), Anti-Virus & Anti-Malware, Web Filtering, Application Control, Bandwidth Management, Traffic Shaping
XIII.	3 Years Complete Licenses Intrusion Prevention System (IPS), Anti-Virus & Anti-Malware, Web Filtering, Application Control, Bandwidth Management, Traffic Shaping
XIV.	Equipment Should be with <b>Standard 03 Year Warranty</b> and Support backed by OEM

#### 5. Firewalls FortiGate 101F Series or Equivalent (Qty – 02 Nos)

S.No	Specification
I.	Must Have Minimum 2.5Gbps for IPS and 1.5 Gbps for NGFW Throughput
II.	Must Have Minimum 1Gbps Threat Protection Throughput
III.	The minimum number of concurrent sessions should be at least 1.5 Million or more
IV.	The number of new connections per second should be at least 30000 or more
V.	The proposed solution minimum includes 128 GB SSD for storage
VI.	Must Have Minimum 06 x 1G Ethernet Interfaces
VII.	Must Include Intrusion Prevention System (IPS), Anti-Virus & Anti-Malware, Web Filtering, Application Control, Bandwidth Management, Traffic Shaping
VIII.	3 Years Complete Licenses Intrusion Prevention System (IPS), Anti-Virus & Anti-Malware, Web Filtering, Application Control, Bandwidth Management, Traffic Shaping
IX.	Equipment Should be with <b>Standard 03 Year Warranty</b> and Support backed by OEM

## 6. PC DELL OptiPlex 3090 Core i5 10<sup>th</sup> Gen or Equivalent (Qty – 200 Nos)

### Specifications

S.No	Nomenclature	Specifications
I.	Form Factor	Tower Small Form Factor (SFF)
II.	Chipset	Intel® Q470 Chipset
III.	Processor	10th Generation Intel® Core™ i5-10600, 12 MB Cache, 6 Cores, 12 Threads, 3.3 GHz to 4.8 GHz, 65 W
IV.	Memory	8 GB, 1 x 8 GB, DDR4, 2666 MHz for Intel® Pentium, Core™ i5 processors.
V.	Storage	M.2 2280, 512 GB, Gen 3 PCIe x4 NVMe, Class 40 SSD
VI.	Video Ports	DP/ HDMI ports
VII.	Additional ports	RJ-45, One optional Serial port, UAJ headphone, line out.
VIII.	Ports	Small Form Factor: 1 RJ-45 port 10/100/1000 Mbps (rear) 02 USB 2.0 Type-A ports (front) 2 USB 2.0 Type-A ports with Smart Power On (rear) 04 USB 3.2 Gen 1 Type-A ports (rear) 1 Universal Audio Jack (front) 02 Display Ports 1.4 (rear) 01 Serial Port 01 Optional video port—HDMI 2.0b, and VGA 01 Line-out audio port (rear, retaksable)
IX.	Graphic Card	Intel® UHD Graphics 630
X.	Slots	1 half-height PCIe x16 Gen 3 slot 1 half-height PCIe x1 Gen 3 slot 1 M.2 2230 slot for wireless 1 M.2 2230/2280 slots for storage 2 SATA slots - 1x3.5" HDD or 1x2.5" HDD, 1 slim ODD <b>Option of Parallel port should be available</b>
XI.	Security	TPM 2.0, standard security lock slot, padlock loop, Intrusion switch, Optional SED hard drive, Optional Cable Covers
XII.	Wireless Card	Not Required
XIII.	Power (PSU)	Maximum 200 W and typical 90% or 92% Efficient PSU
XIV.	Expansion Slots	Two full-height PCIe x1 slot, One full-height PCIe x16 slot
XV.	Warranty	Equipment Should be with Standard 3 Year Warranty and Support backed by OEM including parts, labor and Software Upgrades / License renewals and should be from same brand.
XVI.	Monitor	19" Inch LED <ul style="list-style-type: none"> <li>• Type : TN with LED backlight</li> <li>• Viewable Image Area: 49,99 cm (19 inch) widescreen; diagonally measured</li> <li>• Active Area(W x H): 40,98 x 23,04 cm (16.13 x 9.07 in)</li> <li>• Aspect Ratio: 16:9</li> <li>• Viewing Angle (typical): Up to 90° horizontal/65° vertical (10:1 minimum contrast ratio)</li> <li>• Brightness (typical): 200 cd/m2</li> <li>• Contrast Ratio (typical): 600:1</li> <li>• Dynamic Contrast Ratio (typical): 5,000,000:1</li> <li>• Response Rate (typical): 5 ms (on/off)</li> <li>• Pixel Pitch: 0.3 mm</li> <li>• Backlight Lamp Life(to half brightness): 30K hours minimum</li> <li>• Color Gamut: 72% (typical)</li> <li>• Horizontal Frequency : 30 to 80 kHz</li> <li>• Vertical Frequency : 50 to 60 Hz</li> <li>• Anti-Glare : Yes</li> </ul>

- video port HDMI 2.0b and VGA
- **Warranty:- Equipment Should be with Standard 03 Year Warranty and Support backed by OEM**

**7. Scanners Multi Feed Fujitsu Fi-7030 Front Office Color Duplex Document Scanner with Auto Document Feeder (ADF) Or Equivalent (Qty – 39 Nos)**

**Specification**

S.No	Nomenclature	Specifications
I.	Scanner Type	ADF (Automatic Document Feeder), Duplex
II.	Scanning Speed*1 (A4 Landscape)	Simplex: 27 ppm (200/300 dpi)
III.	(Color*2/Grayscale*2/Monochrome*3)	Duplex: 54 ipm (200/300 dpi)
IV.	Image Sensor Type	Color CIS x 2 (front x 1, back x 1)
V.	Light Source	3 Color LED x 2 (front x 1, back x 1)
VI.	Optical Resolution	600 dpi
VII.	Output Resolution*4	50 to 600 dpi (adjustable by 1 dpi increments), 1,200 dpi (driver)*5
VIII.	(Color / Grayscale / Monochrome)	
IX.	Output Format	Color: 24-bit, Grayscale: 8-bit, Monochrome: 1-bit
X.	Background Colors	White
XI.	Document Size	216 x 355.6 mm (8.5 x 14 in.)
		50.8 x 50.8 mm (2 x 2 in.)
		5,588 mm (220 in.)
XII.	Paper Weight	40 to 209 g/m <sup>2</sup> (11 to 56 lb)*8
XIII.	(Thickness)	0.76 mm (0.0299 in.) or less*9
XIV.	ADF Capacity*10*11	50 sheets (A4 80 g/m <sup>2</sup> or Letter 20 lb)
XV.	Expected Daily Volume*12	4,000 sheets
XVI.	Multi feed Detection	Overlap detection (Ultrasonic sensor), Length detection
XVII.	Interface	USB 2.0 / USB 1.1
XVIII.	Power Requirements	AC 100 to 240 V ±10 %
XIX.	Power Consumption	17 W or less
		1.1 W or less
		0.15 W or less
XX.	Operating Environment	5 to 35 °C (41 to 95 °F)
		20 to 80% (non-condensing)
XXI.	Environmental Compliance	ENERGY STAR®, RoHS
XXII.	Dimensions*13 (W x D x H)	290 x 146 x 130 mm (11.4 x 5.7 x 5.1 in.)
XXIII.	Weight	2.9 kg (6.4 lb)

XXIV.	Supported Operating System	Windows® 11, Windows® 10*14, Windows® 8.1, Windows® 7, Windows Server® 2019, Windows Server® 2016, Windows Server® 2012 R2, Windows Server® 2012, Windows Server® 2008 R2, Windows Server® 2008*15, mac OS, Linux (Ubuntu)
XXV.	Included Software / Drivers	PaperStream IP Driver (TWAIN/TWAIN x64/ISIS), WIA Driver*16, Image Scanner Driver for macOS (ICA)*16*17, Image Scanner Driver for Linux (SANE)*16*17, PaperStream Capture, PaperStream ClickScan*17, Software Operation Panel, Error Recovery Guide, ABBYY FineReader for ScanSnap™*17, Scanner Central Admin
XXVI.	Image Processing Functions	Multi image output, Automatic color detection, Blank page detection, Dynamic threshold (iDTC), Advanced DTC, SDTC, Error diffusion, Dither, De-Screen, Emphasis, Dropout color (None/Red/Green/Blue/White/Saturation/Custom), sRGB output, Split image, De-Skew, Edge filler, Vertical streaks reduction, Cropping, Static threshold, Moire removal
XXVII.	Included Items	ADF paper chute, AC cable, AC adapter, USB cable, Setup DVD-ROM.
XXVIII.	<b>Warranty</b>	<b>Equipment Should be with Standard 03 Year Warranty and Support backed by OEM</b>

#### 8. Bar Code Printer Zebra ZD 230/888 With Accessories Or Equivalent (Qty-16 Nos)

##### Specifications

S.No	Nomenclature	Specifications
I.	Barcode Printer	Zebra ZD230, Zebra ZD888 Barcode Printer
II.	Standard Specification	<ul style="list-style-type: none"> <li>• Thermal Transfer or Direct Thermal print method</li> <li>• ZPL and EPL programming languages</li> <li>• Single LED status indicator</li> <li>• Single button for feed/pause</li> <li>• USB connectivity</li> <li>• Open ACCESS™ for easy media loading</li> <li>• Dual-wall frame construction</li> <li>• ENERGY STAR qualified</li> </ul>
III.	Resolution*	203 dpi/8 dots per mm
IV.	Memory	256 MB Flash; 128 MB SDRAM
V.	Maximum Print Width	4.09 in./104 mm for 203 dpi
VI.	Maximum Print Speed	6 in./152 mm per second
VII.	Media Sensors	Movable black mark sensor, limited range from center to left side Fixed off-center gap sensor
VIII.	Maximum Label Length	39.0 in./991 mm
IX.	Media Width	1.00 in./25.4 mm to 4.4 in./112 mm
X.	Media Roll Size	5.00 in./127 mm outer diameter Core inner diameter: 0.5 in. (12.7 mm) and 1.0 in. (25.4 mm) standard, 1.5 in. (38.1 mm)
XI.	Thickness	0.003 in. (0.08 mm) min.; 0.0075 in. (.1905 mm) max. (tear-off mode only)
XII.	Media Types	Roll-fed or fan-fold, die-cut or continuous with or without a black mark, tag stock, continuous receipt paper, and wristbands
XIII.	Ribbon Outside Diameter	2.6 in./66 mm (300 m); 1.34 in./34 mm (74 m)
XIV.	Maximum Ribbon Length	984 ft. (300 m)

XV.	Ribbon Ratio	1:4 media to ribbon (300 m)
		1:1 media to ribbon (74 m)
XVI.	Ribbon Width	1.33 in./33.8 mm ~ 4.3 in./109.2 mm
XVII.	Ribbon Core I.D.	300 Meter ribbon 1 in./25.4 mm
		74 Meter ribbon 0.5 in./12.7 mm
<b>Warranty</b>		<b>Equipment Should be with Standard 01 Year Warranty and Support backed by OEM</b>

**Accessories: -**

- I. **Printer Paper Roll (Qty 32 Nos).** Fully supported Bar Code Printer quoted brand.
- II. **Printer Ribbon (Qty 32 Nos).** A premium Wax Ribbon for high quality printing. Prints deep, dark barcodes, text, and graphics with good durability. Excellent performance at high printing speeds. Ideal for paper labels and paper tag stock. Fully supported Bar Code Printer quoted brand.

**9. Wireless Bar Code Scanner Black Copper BC-F Or Equivalent (Qty-16 Nos)****Specifications**

S.No	Nomenclature	Specifications
I.	Wireless Barcode Scanner	Black Copper BC-F2 Wireless Barcode Scanner or Equivalent
II.	Communications	RF433
III.	Communication frequency	433-440MHz
IV.	Transmission range	100M (In empty area 100M )
V.	Data rate	10Kbps
VI.	Memory	100, 000@13Byte barcode
VII.	Battery capacity	1500mAh (Lithium battery)
VIII.	Dimensions	97mm×67mm×165mm (L x W x H)
IX.	Weight	172.3g (6.08oz)
X.	Charging time	4.5H
XI.	Communication mode	Read-time mode / Inventory mode
XII.	Connectivity Mode	Wireless
XIII.	Language	Multiple languages
XIV.	Support multi-barcodes	EAN13, EAN8, UPC A, UPC E, CODABAR (NW -7), CODE 39, CODE 93, INTERLEAVED 2OF5, STANDARD 2OF5, MATRIX 2OF5, CODE 128, EAN/UCC 128, CODE 11, CHINESE POST.
	<b>Warranty</b>	<b>Equipment Should be with Standard 01 Year Warranty and Support backed by OEM</b>



**Eligibility Criteria**

- The bidder firm must be ISO certified (certificate required).
- All the products quoted and /or assembling facilities should be ISO certified.
- Bidder Firms should be authorized Partner (by principle), from the original manufacturer, for the all-active components/equipment's.
- All quoted equipment should be new. No refurbished / End of life and used equipment will be supplied during the course of the project.
- Firms should have support centers in Rawalpindi/Islamabad/Lahore.
- Vendor should be in similar business for at least 05 years (against item no 1 to 6).
- Vendor must have 24x7 proper centralized helpdesk facilities for technical support. Details of helpdesk must be attached with proposal (against item no 1 to 6).
- All quoted equipment's /parts must be for Pakistan region.
- Integration with existing setup will be responsibility of vendor (against item no 1 to 5).
- The principal should have local depots in Pakistan to be able to provide Next Business Day replacement for faulty items under SLA.
- Documentary evidence in support of all the above-mentioned eligibility criteria should be furnished.

**General Terms & Conditions**

- All Active equipment should be OEM registered.
- All Active equipment must have local warranty/guarantee.
- All quoted equipment should be new. No refurbished and used equipment will be supplied. The firm must certify that the technology quoted is State of the art and latest.
- All the products quoted and/or assembling facilities should be ISO certified.
- Firms should have support center in Rawalpindi/Islamabad.

**Warranty / Guarantee**

- All active equipment (against item no 01 to 06) should have Three years comprehensive onsite warranty including parts, labour and Software Upgrades/ License renewals and should be from same brand.
- The end user licenses, end user warranties and end user contracting support services will be in the name of Customer, for all the equipment and Software loaded on the equipment delivered during the course of the project.

**Installation, Configuration and Integration of Equipment's (Against item no. 01 to 05)**

- Selected Bidder shall be responsible for the supply, Installation and configuration of supplied equipment.
- Installation, Configuration and Integration with Existing Infrastructure (against item no 01 to 05) will be responsibility of Vendor.

**Manual Catalogues / Brochures:**

- Selected Bidder must provide comprehensive hardware drivers CDs/ documentations, maintenance /service manuals, drawing, , schematic and wiring diagrams in English version (3 copies of each in soft & hard form).

**FAT**

The above hardware will be kept under test run for 04 months.

**Training**

- Selected firm will arrange training (against item no 01 to 05) for POF Officials (03 persons) at POF premises.
- The bidder shall provide Notes and diagrams appropriate to the training program.