RESPONSE TO BIDDERS QUERIES AGAINST TENDER NO. PITC/G-224(112)/02-2025

The pre-bid meeting held on February 18, 2025. Following Companies participated

- 1. JAFFER BUSINESS SYSTEMS (PVT) LIMITED
- 2. FUTUREAGE COMPUTERS
- 3. SPECTRA INNOVATIONS
- 4. DWP TECHNOLOGIES
- 5. WATEEN SOLUTIONS
- 6. M/S MEGA PLUS

Sr. #	Query	Reply
01	LOT # D-I and D-II should be treated as separate LOTS	Accepted
02	Bid money in shape of Bank Guarantee should also be accepted	Accepted

The Specifications of following LOTS has been amended as per queries raised by pre-bid meeting participants:

LOT A: TECHNICAL SPECIFICATIONS - SERVERS

		ENTERPRISE SERVERS			
	Brands: HP/IBM/Dell/Fujitsu/H3C or Equivalent internationally recogniz brands			On FCS Basis	
Sr.	ITEM	DESCRIPTION	Est. QT Y	Unit Rate (PKR)	Unit Rate (PKR)
	Device farm factor	2U Rack mount Server with at least 8 2.5 (SFF) disk slot			
	Processor	2x Intel® Xeon® Gold 6542Y, 2.9 GHz or Higher, 24C/48T or higher			
	Memory	1 TB RAM, DDR5 4400 MHz RDIMMs or Higher			
	Hard Disk Drive	4 x 3.2 TB NvMe SSD 2.5 PCIe Gen 3 or higher Built-in disk type: hot-swappable			
	RAID Controller	Should Support Raid 0,1, 5, 10 with min 8 GB Cache			
	Remote Management	Enterprise Remote Management			
	I/O Expansion	Server Should Support 08 or higher PCIe Standard Slots			
	Onboard Network Adapter	(2 * Port 10Gb SFP+, 2 * Port 10Gb Ethernet) / 4 * Port 1 Gb or Higher Should Support atleast 1 OCP 3.0 Slot	16		
	Dual Port FC/HBA card for SAN storage.	16/32 GB or higher			

Power Supply	Redundant hot-swappable dualPower Supply Unit in full configuration (1+1)	
Stability	Support operating temperature under specific conditions i.e. 5°C-45°C	
System Management	Support remote management with dedicated port	
Compatibility	Supports mainstream operating systems, such as Windows, Redhat Linux, SuSE Linux, Oracle Linux, VMware and Citrix Xeon Server	
Support	03 year comprehensive OEM warranty / support OEM Must Have Registered Office With SECP and 3-Years Local Presence With Local Warehouses in ISB, LHR & KHI and Local OEM Support Team	

LOT B: TECHNICAL SPECIFICATIONS - DESKTOP COMPUTERS

DESKTOP COMPUTERS						
Brand	Brands: HP/IBM/Dell or Equivalent internationally recognized brands			On FCS Basis		
Sr.	ITEM	DESCRIPTION	Est. QTY	Unit Rate (PKR)	Unit Rate (PKR)	
B-1	Intel Core i7 Branded Desktop 14 th Generation	Intel® Core TM i7-14700 vPro® (33 MB cache, 20 cores, 28 threads, 2.10 GHz to 5.30 GHz Turbo, 65W) (14th Gen) with Vpro Enterprise or higher. Intel Chipset H/Q 670 or above. 32GB (2 x 16GB) DDR5 or Higher expandable upto 64 GB or more. Hard Disk Drive: 1 TB SSD PCIe NVMe or Higher, Integrated Intel Graphics 770, Manufacturer Standard KeyBoard & Mouse with Pad. Intel AX211 2x2 Wi-Fi 6E (802.11ax). 1 x HDMI, 1 x VGA port or 1 x DP Port, 2x USB 3.2 Type-A Gen 2, 3x USB 3.2 Type-A Gen 1, 2x USB 2.0, 1x USB 3.2 Gen , RJ-45, UAJ headphone, line out. Security: TPM 2.0, standard security lock slot. Mini Tower/Tower Casing with Power Supply as per Manufacturer Standard, with pre-installed latest windows 11 Pro by OEM, 23" inch or higher FHD Monitor (Same Brand)	24			
	Support	03 year parts / labor comprehensive OEM warranty / support for all components on site				

LOT C: TECHNICAL SPECIFICATIONS - LAPTOPS

	LAPTOPS						
Brand	s: HP/IBM/Dell or Equ	IP/IBM/Dell or Equivalent internationally recognized brands On FCS Basis		CS Basis			
Sr.	ITEM	DESCRIPTION	Est. QTY	Unit Rate (PKR)	Unit Rate (PKR)		
C-1	Intel Core Ultra 7 Branded Laptop 15.6	Intel Core TM Ultra 7 155U 15.6" or higher FHD IPS, Non-Touch, Anti Glare, 250nit or higher, 45% NTSC Memory: Min 16 GB DDR5, Supported Upto 32 GB Storage: 1 TB SSD M.2 Gen 4 PCIe NVMe, Long Life Battery 3 cell, Li-ion, with Express/Fast Charger support, Intel graphics with Intel Core Ultra, Integrated Sound, Intel Wi-Fi 6 2x2, BT 5.3 Wireless Card, FHD HDR Camera, Touch pad, spill Resistant Backlit AI Hotkey Keyboard, 1x USB Type-C with Power Delivery & Display Port, 2x USB 3.2 Gen1 (1x with Power share), 1x HDMI 2.0 or higher, 1x RJ45, 1 x Universal Audio jack, Pre-installed genuine Windows 11 Professional edition (64-Bit) or higher by OEM, Pre- installed Microsoft Office 365 (E1 for One (01) year's subscription), Original manufacturing case, Manufacturer 65W Adapter -Type-C.	104				
	Support	03 year parts / labor comprehensive OEM warranty / support for all components on site					

LOT D-I: TECHNICAL SPECIFICATIONS - NETWORK SWITCH

	NETWORK SWITCH						
Bran	ds: Any International Brand – Network Switch	On FCS Bas		S Basis			
Sr.#	Sr.# ITEM DESCRIPTION		Unit Rate (PKR)	Unit Rate (PKR)			
1	Should have 24 x 1G Ethernet PoE+ Ports						
2	Should have 4 x 10G SFP+ Ports (Loaded with 2 x Single mode Long Range (10km) 10G SFP+ Transceiver module) Note: SFPs should be of same brand that of quoted switch						
3	Should have 127 Gbps or more port switching capacity						
4	Should have 500 Gbps or more box switching capacity	15					
5	Forwarding rate should be more than 95 Mpps						
6	Must include dual fan or higher						

7	Should be a Manageable Enterprise grade Switch with Layer-3 features such as RIP, RIPng, OSPF & OSPFv3 and IS-IS
8	Should support Spanning Tree Protocol, 802.1D STP, 802.1W RSTP & 802.1S MSTP
9	Should support Stacking of local and remote devices through standard Ethernet interfaces. Should support stacking of 9 switches or more
10	Enterprise Switch CPU must be Dual Core, 990MHz or higher
11	Should Support Link Aggregation Protocol
12	Should have 4K or more VLANs support and 32K MAC address entries
13	Broadcast, Multicast and Unicast Storm Control Support
14	Port Mirroring, RSPAN or equivalent must be supported
15	Should support IPv4 routing entries 6012 or higher
16	Should support IPv4 ARP entries 4000 or higher
17	Should Support Time & Vlan Based ACLs. In addition the switch must be capable of configuring the bidirectional ACLs
18	Should support SNMP v1, 2 & 3
19	Switch RAM must be 1GB or higher
20	Switch Flash must be 512MB or higher
21	Should support security features like IP Source Guard, AAA, RADIUS, 802.1x and Centralized MAC Based Authentication, DHCP Snooping etc.
22	Support 12000 Jumbo Frame size or higher
23	QoS Support 8 Queues Per Port, Traffic classification based on IEEE 802.1p DSCP, CAR, Access Control List
24	Should provide embedded free NMS with Intelligent operation and smart management or bidder may quote separate Solution to support the required feature
25	3- Years Equipment warranty from OEM
26	100% technical compliance is must
27	All equipment should be of same OEM (Switches and SFPs)
28	Valid Certificate from Manufacturer (MAL/MAF) for the current year should be provided
29	OEM must be legally present and SECP registered in Pakistan for atleast 5 years
30	OEM must have Local Registered Office, Local Warehouse presence in Pakistan preferably Islamabad, Lahore & Karachi and Also local OEM Support Team

LOT D-II: TECHNICAL SPECIFICATIONS - SAN SWITCH

ands: CISCO, Brocade, Qlogic or Equivalent brand On FCS Basis					
ITEM	DESCRIPTION	Est. QT Y	Unit Rate (PKR)	Unit Rat (PKR	
Compliant Standards	Regulatory Compliance (EMC) 2014/30/EU, AS/NZS CISPR 32 (Australia) (Class A) EN 55024, EN 55032 (Class A), EN 61000-3-2 EN 61000-3-3, FCC Part 15, Subpart B (Class A) ICES-003 (Canada), KN 32, KN 35, VCCI-32 (Japan) Regulatory Compliance (Safety) • 2014/35/EU • CAN/CSA-C22 No.62368-1 • EN/IEC 60950-1 • EN/IEC 62368-1 • EN/UL 60825 • EN/UL/CSA/IEC 60950-1 • UL 62368-1				
FC Standards	FC-GS-8 INCITS 548-2020 FC-IFR, FC-SP-2, FC-SP FC-SW-7, FC-SW-6, FC-SW-5, FC-SW-4, FC-SW-3 FC-VI, FC-DA-2 (FC-DA, FC-FLA, FC-PLDA) FC-MI-3, FC-MI-2 FC-PI-6, 10GFC, FC-FS-4 FC-LS-3, FC-BB-6, FC-SB-6 FA FCMGMT-MIB, RFC 4338, RFC 2837 Fabric Element MIB, MIB-FA FCP-4, FCP-3, FCP-2, SNIA SMI-S	02			
Enclosure type	Rack mountable 1U Fiber Channel Switch				
Ports & Port Upgrades	Should be upgradeable to 24 Ports with flexible Ports on Demand (PoD) upgrades with auto-sensing of 4, 8, 16, and 32G port speeds as per FC standards				
Active Ports with SFP+	16 Active Ports with 32Gbps SWL SFPs Fiber Channel				
Bandwidth & Frame Buffers	Switch should support Aggregate bandwidth of 768Gb/s & 2000 Frame Buffers				
Port Types	E_Ports, F_Ports, M_Ports, and D_Ports				
Meida Types	32G FC SFP+ LC connector: SWL, LWL, ELWL				

	16G FC SFP+ LC connector: SWL, LWL, ELWL	
Remote management protocol	HTTP/HTTPS; SNMP v1/v3, SSH, SFTP	
Management	Web Tools, Command Line Interface (CLI); RESTful API; (FE MIB, FC Management MIB)	
Authentication Method & Security Features	DH-CHAP (between switches and end devices), FCAP switch authentication; HTTPS, IP filtering, LDAP with IPv6, OpenLDAP, Port Binding, RADIUS, TACACS+, User-defined Role-Based Access Control (RBAC), Secure Copy (SCP), Secure Syslog, SFTP, SSH v2, SSL, Switch Binding, Trusted Switch	
Status Indicators (LEDs)	System Status, Power Status, SFP Status, Power & FAN Status	
Management Access	10/100/1000 Mb/s Ethernet (RJ-45), inband over Fibre Channel, serial port (RJ-45) and one USB port	
Support (Backline)	03 year comprehensive OEM warranty / support with 4 Hrs response time	

LOT E: TECHNICAL SPECIFICATIONS - LED Screens

LED SCREENS				
			Basis	
DESCRIPTION		Unit Rate (PKR)	Total Rate (PKR)	
LED Screens for developers 23" HD	10			
Display.				
23-inch, FHD 1920 x 1080 resolution				
LED Backlight panel				
In-Plane Switching Panel				
178 / 178 viewing angle				
250 nits brightness				
1000:1 contrast ratio, 3M:1 dynamic contrast ratio				
7ms response time				
72% color gamut and 16.7M colors				
Anti-glare screen				
Connectivity.				
1 x VGA or 1 x DP Port				
1 x HDMI1.4				
3 x USB3.0 downstream, 1 x USB3.0 upstream can				
Mechanical.				
Frame type tilt stand				
Cable management				
Multimedia.				
1 x Audio out				