

Patients' Aid Foundation (PAF)

Jinnah Postgraduate Medical Centre (JPMC)
Karachi.

TENDER FOR

**Provision of Supply, Installation and Commissioning of Equipment & Civil work
for 6th Floor Surgical Complex at JPMC Karachi.**

For The Financial Year 2023-2024

Tender No: I- PACS Hardware

Technical Evaluation Report:

1. Tender was advertised on **2nd December 2023**.
2. Following bidders participated in the tender:
 - a. M/s Medequips.
3. Technical opening of the tender was held on 17th January 2024 after the extension of two weeks upon request of multiple bidders.
4. Technical evaluation was initiated with mandatory documents check list and M/s Medequips was in compliance with requirements, and hence technically approved

i. M/s Medequips.	Technically Approved
-------------------	----------------------

Technical Compliance Sheet

S.No.	PACS Hardware	M/s. Medequips
	Brand	Dell
	Origin	ASEAN Region
1	Production Server.	Yes, Dell
1.1	Main Processors: Intel Xeon 3G, 3G, 12C/24T, 11.2GT/s 18M Cache, Turbo, HT (150W) DDR4-2933	Yes
1.2	Additional Processors: Intel Xeon 3G, 3G, 12C/24T, 11.2GT/s 18M Cache, Turbo, HT (150W) DDR4- 2933	Yes
1.3	Memory Capacity: 4x 64GB RDIMM, 3200MT/s, Dual Rank	Yes

1.4	Hard Drives: 2x 960GB SSD SATA Read Intensive 6Gbps (RAID 1) or 2x 32GB SD CARD with ISDM Card Reader	Yes
1.5	Power Supply: Dual, Hot-plug, Power Supply Fully Redundant	Yes
1.6	Rack Enclosure: Compatible Rack Enclosure	Yes
1.7	Network Adapter: Quad Port 10GbE Base-T Adapter, OCP NIC 3.0	Yes
1.8	Additional Adapters: Quad Port 1GbE BASE-T Adapter	Yes
1.9	HBA: SAS 12GB	Yes
2	Production SAN Storage	Yes, Dell
2.1	Controller Card: SAS 12GB HBA	Yes
2.2	Tier 1 (VMs):	Yes
	1x 1.92TB (RAID1)	
	1x 1.92TB – Hot spare Drive	
2.3	Tier 2 – Current Images (Total 25 Hard Disks):	Yes
	10x 16 TB SATA (RAID 5)	
	2x 16 TB SATA – Hot spare Drives	
	11x 16TB SATA (RAID 5)	
	2x 16TB SATA – Hot spare Drives	
2.4	Power: Dual, Hot-plug, Redundant Power Supply	Yes
2.5	Power Cords: 2x (2) NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m)	Yes
2.6	Storage Design Assumption: 827,000 studies for 3 years period	Yes
	OR EQUIVALENT	Yes
	Country of Origin: UK/USA/Europe/Japan/Malaysia/Singapore	Yes
3	NAS Storage:	Yes, Dell
3.1	NAS Storage – Total 38 Hard Disks	Yes
3.2	11x 22 TB (RAID 5)	Yes
	2x 22 TB – Hotspare Drives	
	10x 22 TB (RAID 5)	

	2x 22 TB – Hotspare Drives	
	11x 22 TB (RAID 5)	
	2x 22 TB – Hotspare Drives	
3.3	Power: Dual, Hot-plug, Redundant Power Supply.	Yes
3.4	Power Cords: 2x (2) NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m).	Yes
3.5	Storage Design Assumption: 1,545,000 studies from year 4 to year 7.	Yes
	OR EQUIVALENT	Yes
	Country of Origin: UK/USA/Europe/Japan/Malaysia/Singapore	Yes
4	Rack Enclosure	Yes
4.1	24U 600mm Wide x 1070mm Deep Rack Enclosure with PDU.	Yes
4.2	UPS	Yes
	5 KVA or higher as per power requirements.	
4.3	ToR Switch 24 Ports: 24 x 10/100/1000 (PoE+)	Yes
	KVM: 8 Ports KVM	
	Physical Layer7 Load Balancer:	
4.4	MS SQL Server Standard 2019 or higher:	Yes
	MS Windows Server Standard 2019 or higher:	
	Antivirus Server License:	
	Vmware vSphere 7.0 Essential Plus KIT:	
	Speech Recognition Software:	
	Backup Software:	
5	Gateway Servers	Yes, Dell
5.1	Main Processors: Intel Xeon, 3.2G, 8C/16T, 11.2GT/s, 12M Cache, Turbo, HT (140W) DDR4-2933	Yes
5.2	Additional Processors: Intel Xeon, 3.2G, 8C/16T, 11.2GT/s, 12M Cache, Turbo, HT (140W) DDR4- 2933	Yes
5.3	Memory Capacity: 2x 16GB RDIMM, 3200MT/s, Dual Rank	Yes

5.4	Hard Drives: 2x 960GB SSD SATA Read Intensive 6Gbps (RAID 1)	Yes
5.5	Power Supply: Dual, Hot-plug, Power Supply Fully Redundant	Yes
5.6	Rack Enclosure: Compatible Rack Enclosure	Yes
5.7	Network Adapter: Quad Port Network Adapter	Yes
5.8	3rd Party Licenses: Microsoft Windows Server 2019 or Higher Antivirus Software License	Yes
6	Diagnostic Workstation Qty.:	Yes
6.1	Processor: Intel Core™ i7 12th Generation	Yes
6.2	RAM: 16GB (2x8GB)	Yes
6.3	Hard Drive: 512GB PCIe NVMe SSD	Yes
6.4	Video Card: Graphics Card 4GB	Yes
6.5	Operating System: Windows 11 Pro	Yes
6.6	Additional Items: Microsoft Office Home & Business, Antivirus, PDF Viewer	Yes
6.7	Monitor: Business monitor 22-24"	Yes
6.8	Warranty	Yes
7	Medical Monitor Qty.:	Yes
7.1	3MP Dual Head Medical Monitor (for all digital images, except digital mammography)	Eizo 3MP
7.2	5MP Dual Head Medical Monitor (for digital mammography)	Eizo 5MP
7.3	Warranty	Yes
8	Dictation Microphone Qty.:	Yes
8.1	Unique single ear-hook and flexible frame headset	Yes
8.2	Most portable, smallest and lightest (approx. 5 g) titanium made headset	Yes
8.3	Unidirectional polar pattern for high background noise rejection	Yes
8.4	Standard 3.5 mm golden plated audio connector	Yes
8.5	2 m - 79" cable extension	Yes
8.6	Bundle cable tie-clip	Yes

8.7	Convenient case with zipper for easy transportation and storage.	Yes
8.8	Standard Brand Warranty	Yes
	Note: Offer should include post warranty 03 year SLA as well.	offered

---End of Document---