

**SURVEY OF PAKISTAN**  
**SURVEYOR GENERAL'S OFFICE**  
**RAWALPINDI**

Sub: **UPLOADING OF TECHNICAL EVALUATION REPORT OF 03 X**  
**ITEMS AT SOP'S WEBSITE**

Subject Technical Evaluation Report consisting of 05 x pages is attached herewith for placing at departmental website, please.



**(MUHAMMAD NAEEM)**  
Stores Officer

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No. 36 /27-F-2/CBA/St

Dated 22/February, 2024

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To; ✓ Incharge, IT (MPO)

## Comparative Statement for Scanner

| SI No. | Item                     | Specifications   | Firms  |  |
|--------|--------------------------|--|--|--|
|        |                          |  | 1  | 2  |
|        |                          |  | M/S Shirazi Trading Company (Private) Limited  | Digital Management System (DMS)  |
| 1      | Brand                    | Renowned Brand commonly used in Pakistan   | WideTek 48CL   | Contex   |
| 2      | Enhanced resolution      | 9600 dpi   | 9601 dpi   | 9600 dpi   |
| 3      | Optical resolution       | 1200 x 1200 dpi  | 1201 x 1200 dpi  | 1200 x 1200 dpi  |
| 4      | Document Thickness       | max. 2.5 mm (0.1 inch)   | max. 2.5 mm (0.1 inch)   | 0.08 inch flexibke Documents   |
| 5      | Imaging technology       | CIS scanning technology  | 4x CIS modules, 29852 pixels, encapsulatedand dust proof   | CIS scanning technology  |
| 6      | Accuracy                 | ± 0.1% ± 1 pixel   | ± 0.08%  | ± 0.1% ± 1 pixel   |
| 7      | Scan Speed Color         | 200 dpi - 7.5 inch/s or better   | 7.5 inch/s   | 8.9 inch/s   |
| 8      | Scan Speed BW            | 200 dpi - 15 inch/s or better  | 15 inch/s  | 17.8 inch  |
| 9      | Data capture(color/mono) | 48-bit/16-bit gray scale   | 48-bit/16-bit  | 48-bit color /16-bit monochrome  |
| 10     | Maximum scan width       | 1220 mm (48 in)  | 1220 mm (48 in)  | 44 inch (1118 mm)  |
| 11     | Paper Path               | Face up, Front entry, Front or rear exit   | Face up, Front entry, Front or rear exit   | Face up, Front entry, Front or rear exit   |
| 12     | Scan direction           | ± 0.08% across 48 inch scanning width  | 48 inch  | ± 0.08% across 44 inch scanning  |
| 13     | Supported file formats   | PDF, TIFF, JPEG, JPEG2000, DWF, multi-page PDF generation  | Mutlipage PDF (PDF/A0 and TIFF, JPEG 2000, PNM, PNG, BMP, TIFF (Raw, G3, G\$, LZW, JPEG0 AutoCAD DWF, JBIG,DjVu,PCX,Postscript,EPS,Raw data and more   | TIF,JPG,PDF,PDF/A,DWF,CALS,BMP,JPEG-2000(JP2),JPEG2000 Extended(JPX),TIF-G3, TIF-G4 and others .   |
| 14     | Scan to                  | File, email, USB, HDD, network folder, FTP, print  | File, email, USB, HDD, network folder, FTP, print  | File, email, USB, HDD, network folder, FTP, print  |
| 15     | Settings                 | Type of original-preset, color mode, resolution (dpi), batch, single/multi-page, file format, customizable file naming, customizable default settings, image crop and align preview, enlarge/reduce, blueprint, lightness, saturation and RGB controls, white point and black point adjust, sharpen/blur, background removal, invert, mirror, accounting | Type of original-preset, color mode, resolution (dpi), batch, single/multi-page, file format, customizable file naming, customizable default settings, image crop and align preview, enlarge/reduce, blueprint, lightness, saturation and RGB controls, white point and black point adjust, sharpen/blur, background removal, invert, mirror, accounting | Color mode, resolution(dpi),batch ,single/multi-page ,file format,Type of original -preset, customizable file naming, customizable default settings, image crop and align preview, enlarge/reduce , background, removal, invert , mirror, accounting, blueprint, lightness, saturation and RGB controls, white point and black point adjust, sharpen/ blur |
| 16     | Copier specific settings | Print mode, for printer output destination   | Scan to Print feature available  | Print mode, for printer output destination   |
| 17     | Maximum scan size        | 0.91 x 26 m (36 x 1204 in); 0.6 x 37.9 m (24 x 1491 in); 0.3 x 75.8 m (12 x 2991 in)   | 50 inches x 200 feet   | 44 inch (1118 mm) Scan width 47 inch   |
| 18     | Batch                    | Available with scan and copy   | Batch scan Wizard for high volume scanning   | Available with scan and copy   |
| 19     | Preview                  | Scan, copy and print after previewing the original in the advanced touchscreen controller  | Scan, copy and print after previewing the original in the advanced touchscreen controller  | Scan, copy and print after previewing the original in the advanced touchscreen controller  |
| 20     | Size detection           | Automatic width detection. Manual size selection also possible   | Detection and selectionmanully and automatic also possible   | Automatic width detection/ Manual  |
| 21     | Applications Media       | Line drawings, Maps, Office Graphics, Posters, Presentations   | Line drawings, Maps, Office Graphics, Posters, Presentations   | Line drawings, Maps, Office Graphics, Posters, Presentations   |
| 22     | Handling                 | Straight-through scan paper path for sheet and cardboard originals. Face-up, front entry, rear exit, rewind to front, use document return guide for front-return   | Straight-through scan paper path for sheet and cardboard originals. Face-up, front entry, rear exit, rewind to front, use document return guide for front-return   | Straight-through scan paper path for sheet and cardboard originals. Face-up, front entry, rear exit, rewind to front, use document return guide for front-return   |

|    |                              |  |  |  |
|----|------------------------------|--|--|--|
| 23 | Types                        | Non-abrasive paper, sepia, blueprints, plastic, plastic laminate, foam board, cardboard, newspaper | Non-abrasive paper, sepia, blueprints, plastic, plastic laminate, foam board, cardboard, newspaper   | Non-abrasive paper, sepia, blueprints, plastic, plastic laminate, foam board, cardboard, newspaper               |
| 24 | Processor                    | Intel Core i7 or latest  | 64 bit Linux, Intel quad core processor, Intel Core™ Gen 9 processor Built-in/integrated system standard specification   | Intel Core i7 or latest  |
| 25 | Memory                       | 4 GB memory, 500 GB hard disk or more  | 128GB SSD ,16 Gigabyte RAM, for very long scans Built in/integrated system standard specification  | 4 GB memory, 500 GB hard disk  |
| 26 | Connectivity                 | Dual Gigabit Ethernet (1000 Base-T), Hi-Speed USB 3.0 certified                                    | Gigabit Ethernet (1000 Base-T) with TCP/IP based Scan2Net Interface, Hispeed USB 3.0 certified   | Gigabit with xDTR2.5 , USB 3.0 with xDTR3  |
| 27 | Drivers (included)           | Windows 10 version drivers for compatible HP Page Wide XL and HP Design Jet Printers               | Print Scanwizard , Drivers included (compatible with other large format Printers)  | HP, Canon Epson and Océ printers. See contex.com/next image-supported-printers for full list. Windows 10 Drivers |
| 28 | User Interface               | 15.6-inch (396-mm) large touchscreen to preview and enhance images                                 | 21" full HD 1920 * 1080 multitouch screen (included in bundle), 7 inch color touchscreen   | 15.6-inch (396-mm) large touchscreen to preview and enhance images   |
| 29 | Software                     | Scanning software compatible with windows 10   | Virus Free OS 64 bit Linux compatible with all types of large format printers and devices  | Scanning software compatible with windows 10   |
| 30 | Calibration Sheet & Software | Calibration Sheet along with calibration software  | Calibration Sheet along with calibration software  | Calibration Sheet along with calibration software  |
| 31 | Stand                        | Standard brand specific Stand  | WideTek  | built in stand   |
| 32 | Power Requirements           | Input voltage (auto rang Ving): 240 VAC (± 10%), 50/60 Hz, 5 A max, or Pakistan Compatible         | 100 - 240 V AC, 47 - 63 HZ (external power supply , complies with ECO standard CEC level VI)<br><br>P(OFF) 0.3 W / P(Sleep)<br>6.5 W /P (Ready) 30 W / P(Active) 50 W (46 % below Energy STAR requirements), Pakistan Compatible | 100-240 V , 60/50 Hz , Pakistan Compatible   |
| 33 | Warranty                     | 01 Year on site comprehensive  | 2 Year on site comprehensive   | 01 Year on site comprehensive  |
| 34 | Dealership                   | Authorized Dealership Gold / Higher with manufactural authorization letter                         | sole Distributor (Letter Attached)   | Authorized Dealership Gold / Higher with manufactural authorization letter                                       |

**Comments:-**

- 1 Two firms M/s Shirazi Trading Company (Private) Limited, Islamabad, and M/s Digital Management System (DMS), Islamabad participated in tender for 48" Scanner.
- 2 M/S DMS, Islamabad does not fulfil TECHNICAL SPECIFICATIONS at Sr. 10, 11 &17, which are major technical deviations.

**Recommendations:**

Therefore, in the preview of Para-2

## Comparative Statement for Server

| SI No.   | Item          | Specifications   | M/S NECSOL Networking Engineering   |
|----------|---------------|--|---|
| <b>1</b> |               |  |   |
| 2        | Device        | 2 Socket Rack Mounted Server   | 2U  |
| 3        | Processor     | 2x Intel Xeon Processors with minimum 18Core and 2.2Ghz  | 2x Intel Xeon Silver 4316 2.3 G, 40C/80T, 10.4GT/s, 60M Cache, Turbo, DDR4-2666RAM  |
| <b>4</b> |               |  |   |
| 5        | Disk          | MAX support 25/16 Disk Bays, Minimum 8, SAS 10K,15K RPM, 12Gbps, equivalent or higher, also should support M.2 with separate RAID card for OS Boot and Various Other Disk Such as, NL-SAS, SSD SAS/SATA, PCI NVME. Should be configured with 2 x 800GB SSD 12Gbps(Mixed use) | 2 x 800GB SSD SAS Mixed use up to 24Gbps 512e 2.5in Hot-Plug, AG Drive<br>2.5" Chassis with up to 24 SAS/SATA Drives, 2 CPU   |
| <b>6</b> |               | Support RAID 0, 1,10 or more, 12Gbps   | (Supported RAID)  |
| <b>7</b> |               | 4 x GE port and 4 x 10GE port with optical and Base-T transceivers Redundancy should be taken care   | 1 x Broadcom 57412 Dual Port 10GbE SFP+, OCP NIC 3.0 1 x Broadcom 57413 Dual Port 10GE SFP+ Adapter, PCIe Full height<br>2x Broadcom 57416 Dual Port 10Gb , Base-T PCIe adapter , Full Height 1x Broadcom 5719 quad port 1GE BASE-T Adapter PCIe Full Height , V2 < firmware restriction apply<br>4x SFP + SR Optic 10 GBE , for all SFP+ ports except high temp calidation warning cards |
| 8        | HBA Card      | 2 x Dual-port 16Gbps FC HBA card with optical transceivers prefer if it has the same manufacturer as Server  | 2 x Emulex LPE 31002 Dual Port 16Gb Fiber Channel HBA, PCIe Low Profile   |
| 9        | Optical Drive | VirtualPhysicalDrive should be supported   | Virtual Drive Supported   |
| 10       | Power Supply  | Redundant hot-swappable high efficiency AC power supply or higher in full configuration  | Dual, Hot-plug , Fully redundant Power Supply (1+1), 1400W, mixed mode  |
| 11       | Stability     | Support long-term operating temperature under specific conditions  | Supported   |

|    |                   |  |                        |
|----|-------------------|--|------------------------|
| 12 | System Management | <p>Manageability and maintainability:</p> <p>1 Supports integrated system management:<br/>Automatically restarts servers Monitors and controls fan modules, power supplies, and temperature, Starts and shuts down servers Restarts servers in sequence Updates local firmware Records error logs Provides a visualization tool</p> <p>2 Provides GUIs for management and other advanced management functions.</p> <p>3 Provides independent remote management and control ports and GUIs for remote monitoring to implement remote full control over servers, independently of OSs. Remote full control includes remote start-up, shutdown, and reset, and virtual floppy and DVD-ROM drives.</p> | IDRAC9, Enterprise 15G |
| 13 | OS                | Windows Server latest  | Windows server 2022    |
| 14 | Antivirus         | Server Based Antivirus   | Kaspersky (1 + 10 )    |
| 15 | Compatibility     | Supports mainstream operating systems, such as Windows, Redhat Linux, SuSE Linux, VMware, Fusion sphere and Citrix XenServer   | Comply                 |
|    | Note:             | Faulty Hard Drives will not be return during warranty period   | Comply                 |

**Comments:-**

- 1 Only one firms M/s NECSOL Networking Engineering, Islamabad participated in tender for Server.
- 2 M/s NECSOL Networking Engineering, Islamabad fulfilled TECHNICAL specifications.

**Recommendations:**

Therefore M/s NECSOL Networking Engineering., Islamabad is recommended for further Proceedings, please.

## Comparative Statement for Multimedia Projector

| Sr. | Functions / Peripherals                      | Specifications   | Al-Khair Traders  |  |
|-----|--|--|---|--|
| 1.  | Brand  | Sony/BenQ/Epson/LG/Acer  | Compliance Sheet<br>not attached  |  |
| 2.  | Display System                               | 4K SXRD panel, projection system   |   |  |
| 3.  | Brightness                                   | 6 500 Lumens   |   |  |
| 4.  | Technology                                   | Laser LCD  |   |  |
| 5.  | Projection lens                              | Focus  |   | Powered  |
|     |  | Zoom   |   | Powered (Approx. x 2.1)  |
|     |  | Lens shift   |   | Powered Vertical: +85% -80% Horizontal: ±31%   |
| 6.  | LCD panel                                    | Panel size   |   | 19.3mm(0.76inches) diagonal (16:10aspect ratio)  |
|     |  | Display method   |   | Transparent LCD panel( x 3, R/G/B)   |
|     |  | Drive method   |   | Active matrix method   |
|     |  | pixels   |   | 26,542,080 (4096 x 2160 x 3) pixels  |
| 7.  | Lens   | PT-MZ670   |   | Powered zoomed(1.6x) focus lenses, F 1.7-2.3,f 26.8-45.5mm throw ratio 1.6-2.8:1   |
|     |  | PT-MZ670L  |   | Optical power zoom/focus lenses and fixed focus lenses   |
| 8.  | Light source                                 | Laser diode laser class1(class 3R for US models)   |   |  |
| 9.  | Projection size                              | 1.02-10.16m(40-400inches)diagonally, 16:10 aspect ratio  |   |  |
| 10. | Recommended lamp replacement time*1          | 6000 H (Lamp mode: Low)  |   |  |
| 11. | Screen size                                  | 60" to 300" (1,524 mm to 7,620 mm)   |   |  |
| 12. | Colour                                       | Full colour(16,777,216 colours)  |   |  |
| 13. | Light output                                 | 6500 lm (input signal:PC operating mode: normal, Dynamic mode)   |   |  |
| 14. | Center to center uniformity                  | 90%  |   |  |
| 15. | Colour light output                          | 1800 lm (Lamp mode: High)*2  |   |  |
| 16. | Dynamic contrast                             | 3,000,000:1  |   |  |
| 17. | Displayable scanning frequency               | Horizontal   |   | 19 kHz to 72 kHz   |
|     |  | Vertical   |   | 48 Hz to 92 Hz   |
| 18. | Display resolution*3                         | Computer signal input  |   | Maximum display resolution: 1920 x 1080 dots (HDMI Input only)   |
|     |  | Video signal input   |   | 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p, 1080/24p, 3840 x 2160/24p, 3840 x 2160/25p, 3840 x 2160/30p, 3840 x 2160/50p*4, 3840 x 2160/60p*4, 4096 x 2160/24p, 4096 x 2160/25p, 4096 x 2160/30p, 4096 x 2160/50p*4, 4096 x 2160/60p*4 |
| 19. | INPUT OUTPUT<br>(Computer / Video / Control) | HDMI1 / HDMI2  |   | Digital (RGB/Y Pb/CbPr/Cr) Bandwidth 18Gbps and HDCP 2.2.  |
|     |  | Trigger1 / Trigger2  |   | 2x Minijack, DC 12 V Max. 100 mA   |
|     |  | Remote   |   | RS-232C, D-sub 9-pin (female)  |
|     |  | LAN  |   | RJ45, 10Base-T/100BASE-TX  |
|     |  | Digital LAN/Link   |   | RJ45x1 for network and digital link(video/network/ serial control) connection,100base-tx, compliant with PLink™(class 2) deep colour, HDCP   |
|     | IR IN  | Mini Jack  |   |  |
|     | USB  | DC 5V, Max. 500 mA   |   |  |
| 20. | Acoustic noise                               | 26 dB  |   |  |
| 21. | Operating temperature / Operating humidity   | 5°C to 35°C (41°F to 95°F) / 35% to 85% (no condensation)  |   |  |
| 22. | Storage temperature / Storage humidity       | -20°C to +60°C (-4°F to +140°F) / 10% to 90% (no condensation)   |   |  |
| 23. | Illumination life of set                     | Varies depending on operation mode setting. 20000 hour at half luminance IEC26087:2008 broadcast contents, dynamic contrast, temp: 30°C, under conditions of 0.15mg/m3 of particulate method |   |  |
| 24. | Power requirements                           | AC 100V-240V, 4.6 A to 2.0 A, 50/60Hz  |   |  |
| 25. | BTU value                                    | Max 1792BTU  |   |  |
| 26. | Power consumption                            | operating  | 460 W   |  |
|     |  | Standby  | 0.4 W (when "Remote Start" is set to "Off")   |  |
|     |  | Networked Standby  | 1.0 W (LAN) (when "Remote Start" is set to "On") When a LAN terminal is not connected, it becomes a low power consumption mode (0.5 W). |  |
| 27. | Dimensions (W x H x D) (without protrusions) | PT-MZ670 560x205*4x 443mm(22-1/16 x 8-1/16*4x 17-7/16inches) (with supplied lens) PT-MZ670L 560 x 205*4x 428mm(22-1/16 x 8-1/16*4x 16-27/32 inches)(without lens)                            |   |  |
| 28. | Installation                                 | Ceiling/desk/AUTO, front/rear, 360° free installation  |   |  |
| 29. | Speaker                                      | 4.0 cm round type x1   |   |  |
| 30. | Power Cord length                            | 3.0m (9ft 10in)  |   |  |
| 31. | Cabinet material                             | Molded plastic   |   |  |
| 32. | Mass   | Approx. 14 kg / 31 lb  |   |  |
| 33. | Replacement lamp                             | LMP-H280   |   |  |
| 34. | Warranty                                     | One-year hardware warranty.  |   |  |
| 35. | Dealership                                   | Authorized Dealership Gold / Higher with manufactural authorization letter   |   |  |

### Comments:-

- 1 Only one firm M/s AL-Khair Traders, Islamabad participated in tender for Multi-Media Projector.
- 2 The firms has not attached TECHNICAL compliance with the tender document. On 20-02-2024, the firm was requested through telephone to provide duly signed missing document by 9:30 on 21-02-2024. The firm was again reminded twice on 21-02-2024 but failed to provide missing document.

### Recommendations:

Therefore, on the basis of incomplete technical bid, M/s AL-Khair Traders, Islamabad is not recommended for further action, please.