



HIGH COURT OF SINDH

Technical Report

Tender Ref: NO.SHC/BUDGET/TENDER/2024-25/XI/Consolidated Tender

Tender for the Comprehensive Procurement and Installation of Equipment, Furnishings, and Systems for the High Court of Sindh (Principal Seat at Karachi, Bench at Sukkur and Circuit Court, Hyderabad), including Air Conditioners, Generators, CCTV, Audio-Visual Solutions, Furniture, Copy Printer Machine, LED Displays, Video Conferencing Equipment and Staff Uniforms, on a Lot-wise Basis.

For Lots 4, 5 6, 8 & 9

"Technical report prepared in coordination with the IT Branch of this Court on May 31, 2025."

I/C Director General (Finance & Accounts)/
Chairman (Procurement Committee)

KAMRAN MEMON
Deputy Registrar (Accounts)
(Member-PC)

SYED MUHAMMAD MUTI-UR-REHMAN
Deputy Secretary/ Nominee of Law, PA & CP Department, Govt. of Sindh
(Member-PC)

LOT NO. 5: PROCUREMENT AND INSTALLATION OF SMART LED DISPLAY WITH INTERACTIVE FEATURES FOR COMMITTEE ROOM, SINDH HIGH COURT, KARACHI. (ON EX-STOCK BASIS ONLY)**LOCATION: KARACHI****QTY: 01 SET**

#	Items/features	Detail	MANSHA BROTHERS	SYED BUSINESS SOLUTIONS (SBS)
1	Display	• 86-inch D-LED touch screen • Ultra HD 4K (3840 x 2160 screen resolution) • Anti-glare and anti-fingerprint coating • Contrast ratio 1200:1(typ.) • Brightness: 350 nits • Viewing angle 178°(H) / 178°(V) • Ratio 16:9, • Refreshing Frequency 60Hz • Touch Points 20 points, • Location Accuracy $\pm 1\text{mm}$(over 90% Area) • Contact Height < 2mm	Brand: Yealink Model :Collaborative Meeting Board-86 Yes	Brand: Yealink Model :MB86PRO-A02-86 Pro Interactive Meeting Board Yes
2	Video Standard	• Video codecs: H.264 High profile, H.264 SVC, H.264	Yes	Yes
3	Meeting features	• Calendar, • One-click join • Meeting collaboration - Content sharing - Wireless Content Sharing, - Wired Content Sharing, - AirPlay - Miracast - Whiteboard • Meeting control - Add par ticipates, - Hold/Resume, - Camera On/Off, - Mute/Unmute - Volume Up/Down, - Hang up	Yes	Yes

NO	MAKE & MODEL	DESCRIPTION	QTY	RELIABLE SECURITY SYSTEMS (PRIVATE) LIMITED	M.A. TECH
17	UPS	UPS 2.0 KVA BRAND: STABIMATIC / SYSTEK or equivalent	01	Yes	Yes
18	HDMI cable	16-20' HDMI Cable <u>OR</u> 5 Meter Good Quality Machine Made	02	Yes	Yes
19	Misc.	Cable Tie, Tape, RJ-45 Connectors, etc.	01 Lot	Yes	Yes
20	Services	Installation, Testing & Commissioning Charges.	1 Job	Yes	Yes
21		Laying of Cable. (RFT mentioned above)	1 Job	Yes	Yes
22		Installation of Pole with Foundation	2 Jobs	Yes	Yes
	Qualified Preliminary Technical Criteria: (Yes/No)			Yes (Responsive)	Yes (Responsive)

NO	MAKE & MODEL	DESCRIPTION	QTY	RELIABLE SECURITY SYSTEMS (PRIVATE) LIMITED	M.A. TECH
6	Cabling / Fitting Power	➤ Material included in Per Running Feet ➤ Power Cable Wire 2-Core 2.5mm flexible Power cable (Million or better) with Jeddah / Pak Arab PVC Pipe with Fittings & Adamjee Ch- Patti or better. Note: Initially rates may be quoted on 3200 RFT (as benchmark). Later the payment will be made on actual running feet.	3200 RFT	Yes	Yes
7	Cabling / Fitting Coaxial	➤ Material included in Per Running Feet ➤ NVR to Guard Room for 2nd Display ➤ Coaxial Cable RG-6 imported with Jeddah / Pak Arab PVC Pipe with Fittings & Adamjee Channel Patti or better. Note: Initially rates may be quoted on 400 RFT (as benchmark). Later the payment will be made on actual running feet.	400 RFT	Yes	Yes
8	Converter (VGA to AV)	Converter (VGA to AV) imported/good quality for 2 nd output at Police / Guard Room	01	Yes	Yes
9	Network Switch	8 Ports POE Switch	04	Yes	Yes
10	U Rack (N/W)	6 U-Rack with Cooling Fan, Lock & PDU.	01	Yes	Yes
11	LED	40" Inch LED BRAND: TCL / DAWLANCE / HAIER / ECOSTAR or equivalent	02	Yes	Yes
12	Housing, Brackets	Housing with Bracket (If required)	15	Yes	Yes
13	PVC Box	PVC Box 4 x 4 for Camera	05	Yes	Yes
14	MDF Box	MDF Box 12 x 12 for Switch	03	Yes	Yes
15	Metal pole	Metal Pole 12' Ft. for PTZ Camera	01	Yes	Yes
16	Metal Pole	Metal Pole 12' Ft. for Fixed Camera	01	Yes	Yes

LOT NO. 4: SUPPLY AND INSTALLATION OF CCTV CAMERAS AT THE CIRCUIT COURT, HYDERABAD. (ON EX-STOCK BASIS ONLY)

S. NO	MAKE & MODEL	DESCRIPTION	QTY	RELIABLE SECURITY SYSTEMS (PRIVATE) LIMITED	M.A. TECH
1	Network IR Bullet Camera	4 Megapixel Network IR Bullet Camera 4MP Fixed Network IR Bullet Camera Up to 4MP, 2688×1520@25fps, S+265 / H.265 / H.264B / H.264M/H.264H, Color: 0.02 Lux @ (F1.6,AGC ON), B/W:0 Lux with IR, IR range up to 50m, Built-in Mic, Operating conditions -30°C~60°C (- 22°F~140°F), =95%RH, PoE: IEEE 802.3af,Max. 7W, IP67	20 + 4 (4 Nos. to be installed /fixed with already available NVRs @ HYD-HC)	Brand : DAHUA Yes	Brand: TIANDY Yes
2	Network PTZ IR Camera	5 Megapixel 30x (or higher) Network IR PTZ Camera Optical zoom: 30X, digital zoom 16X, Smart IR, IR Range: 200m, S+265/H.265/H.264/M-JPEG, Intelligent monitoring/ Face Capture mode, Support Human/Vehicle Classification, Support Auto-tracking, Plugin Free, IP67	1	Yes	Yes
3	32-Channel Network Video Recorder	32-CH Network NVR H.265 2HDD S+265/H.265/H.264 video formats, Connectable to the third-party network cameras, Support live view, storage, and playback of the connected camera at up to 8MP resolution, 1×HDMI and 1×VGA simultaneous outputs, HDMI Video output at up to 4K resolution, 2 SATA interface, up to 10TB for 1 HDD, 1×RJ45 self-adaptive 10/100/1000 Mbps network interface	1	Yes	Yes
4	HDD	4.0 TB Surveillance H.D.D. SATA (Seagate /WD/or equivalent)	1 + 6 (6 @ HYD-HC)	Yes	Yes
5	Cabling / Fitting CAT-6	➤ Material included in Per Running Feet ➤ Cat-6 Cable (3M or Schneider Cable or better) Jeddah / Pak Arab PVC Pipe with Fittings & Adamjee Channel Patti or better. Note: Initially rates may be quoted on 8000 (as benchmark). Later the payment will be made on actual running feet.	8000 RFT	Yes	Yes

NO. 8: SUPPLY & INSTALLATION OF VIDEO CONFERENCING (VC) EQUIPMENT (ENTRY LEVEL) FOR SINDH HIGH COURT, KARACHI & BENCH AT KUR (02 sets(±)). (ON EX-STOCK BASIS ONLY)

S. NO	MAKE & MODEL	DESCRIPTION	MANSHA BROTHERS	SYED BUSINESS SOLUTIONS (SBS)
1	Camera	• 2× 48MP • DFOV 120° • 4K at 30 fps • 6x digital zoom • Automatic lens cover • Up to 9 camera presets	BRAND: Yealink Model #: MeetingBar A40-010 Yes	BRAND: Yealink MODEL #: SmartVision 40 All-in-one Yes
2	Audio	• 8 MEMS microphone array • 6-meter voice pickup range • 4-meter quality voice range • Supports 2 expansion microphones • Noise cancellation and echo cancellation • Full-duplex • Speakers: - 2x 10W stereo - Frequency response: 100-20 kHz - Sensitivity: 86dB SPL @1W@0.5m - Sampling rate: 48 kHz - THD <1% at 94 dB SPL	Yes	Yes
3	AI feature	• IntelliFocus • Multi-Stream IntelliFrame (Teams Room only) • Video Fence • Auto Framing • Speaker Tracking • Image Super Resolution • Multi-Focus • Picture-in-Picture	Yes	Yes
4	Connections	• USB3.0 Type-B port , • USB2.0 Type-A port , • USB-C port • VCH port (RJ-45) • 3.5mm line-in/out		

#	Items/features	Detail	MANSHA BROTHERS	SYED BUSINESS SOLUTIONS (SBS)
		* Windows 11 IoT Enterprise OS, license included		
13	Warranty	Minimum (03) years manufacturer's warranty.	Yes	Yes
		Qualified Preliminary Technical Criteria: (Yes/No)	Yes (Responsive)	Yes (Responsive)

LOT NO. 6: PROCUREMENT AND INSTALLATION OF A COMPLETE AUDIO CONFERENCE SYSTEM FOR THE COMMITTEE ROOM, SINDH HIGH COURT, KARACHI. (ON EX-STOCK BASIS ONLY)

#	Description	QTY	SYED BUSINESS SOLUTIONS (SBS)	IT REPUBLICAN
➤	Delegate Mic / Speaker Sets HT350D, TS-772 or Equivalent	16	Brand: HTDZ & TOA	Brand: HTDZ & TOA
			Yes	Yes
➤	Delegate Chairman Set HT350C, TS-771 or Equivalent	01	Yes	Yes
➤	Complete set of Amplifier HT-3000, TS-770 Central Unit or Equivalent	01	Yes	Yes
➤	Additional Wall Mount/floor standing Speakers 06-30 W	2 or 4 (as per power)	Yes	Yes
➤	Additional wired mic for Rostrum/Host Desk	01	Yes	Yes
➤	Additional Amplifier (if required for Wall mount /floor standing speakers & mic)	01	Yes	Yes
➤	<u>Audio standard supported cables, Complete Wiring, Installation jacks, Connectors, Convertors, in all respect to integrate the System</u>	01 Job/Complete set, as per requirement	Yes	Yes
		Qualified Preliminary Technical Criteria: (Yes/No)	Yes (Responsive)	Yes (Responsive)

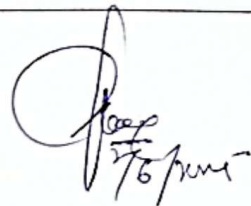
#	Items/features	Detail	MANSHA BROTHERS	SYED BUSINESS SOLUTIONS (SBS)
		- 8MP Sony sensor - 12x optical zoom - FOV: 90° - HFOV (Rotational): ±100° - VFOV (Rotational): 0° /-90° • Intelligence Features - Auto Framing, - Speaker Tracking, - Multi-focus Framing (Integrated) - PiP Mode, - Smart Gallery (Zoom)		
8	Network Security & Feature	• IPv4 and IPv6, DHCP/static IP • HTTP/HTTPS web server, • SRTP/TLS, AES 256-bit encryption • QoS: 802.1p/q, Diff-serv • VLAN, LLDP, • IEEE802.1X - EAP-MD5/EAP-TLS, - PEAP-MSCHAPv2 - EAP-TTLS/EAP-MSCHAPv2, • Network diagnosis: Ping, Trace route • Time and date synchronization using SNTP • Built-in certificate, • Simple Certificate Enrollment Protocol (SCEP) • WiFi 6, • 2x2 MIMO dual-band, • Built-in Bluetooth 5.0 • NFC supported,	Yes	Yes
9	Portable/ Moveable Trolley	Interactive Screen must fix on a sturdy, heavy-gauge metal portable trolley stand with moveable tire	Yes	Yes
10	Operating System	Android 10	Yes	Yes
11	Buttons	• LED lightstrips • Home button • Input source button • Volume up/down button • Motion sensor	Yes	Yes
12	Windows OPS module i5/i7	* INTEL Core™ i5/i7 CPU * 16GB Memory, 256GB SSD Storage	Yes	Yes

#	Items/features	Detail	MANSHA BROTHERS	SYED BUSINESS SOLUTIONS (SBS)
4	Audio	• Built-in 16 MEMS Mic Array • Support RCA input/output, • Enhanced Noise Proof Technology • Acoustic Echo Cancellation, • Reverberation Suppression • Auto Gain Control, • Beamforming Technology • CNG/PLC/AJB/De-Rerb Speaker: -4 full range+2 tweeter stereo speakers. -Frequency Response: 90Hz~20kHz -Sensitivity: 95dB SPL @ 1W, 0.5 meter -Sampling Rate: 48kHz -Rated Sound emission angle: Forward-facing, Downward-facing. -Total Harmonic Distortion (THD): 1kHz <1% at 1 meter -Rated Impedance: 4 ohms, -Rated Power: 15W -Maximum Power: 24W	Yes	Yes
5	External Mic x 2	• External Mic of same quoted brand	Yes	Yes
6	Connections	• detachable PTZ camera port • HDMI output (CEC supported), • HDMI input (only for source input) • RCA audio input, • RCA audio output • VCH port (RJ-45) • USB Type A 3.0 interface, • USB Type A 2.0 interface • USB Type B Touch output interface • 10/100M/1000M Ethernet port, • Power port • Windows OPS slot, • Security lock slot, • Reset slot	Yes	Yes
7	Camera	• Built-in Camera - 8MP Sony sensor, - 120° Diagonal field of view - HFOV: 110°, - 4x e-PTZ - Electric privacy shutter • Must include ADDITIONAL Camera-12X	Yes	Yes

S. NO	MAKE & MODEL	DESCRIPTION	MANSHA BROTHERS	SYED BUSINESS SOLUTIONS (SBS)
		1 x 55" Smart LED Installation on a sturdy, heavy-gauge metal portable trolley stand with moveable tires.	Yes	Yes
10	Speaker (Sound Bar of same quoted brand) x 2 (Qty)	Stereo speakers, Built-in Bluetooth (for future use), Frequency respond: 100Hz-20KHz	Yes	Yes
		1 x VCH (RJ45), supports PoE (802.3af) 1 x 3.5mm Line-in	Yes	Yes
11	Other	Integration with existing sound System with cabling.	Yes	Yes
12	Services	Installation, Testing & Commissioning Charges.	Yes	Yes
9	Warranty	1-3 Years,	Yes	Yes
		Qualified Preliminary Technical Criteria: (Yes/No)	Yes (Responsive)	Yes (Responsive)



I/C Director General (Finance & Accounts)/
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S. NO	MAKE & MODEL	DESCRIPTION	MANSHA BROTHERS	SYED BUSINESS SOLUTIONS (SBS)
		• Operating temperature: 0-40°C • Operating humidity: 10-95% • Power: Battery powered, 4 year life	Yes	Yes
6	HUB audio and video processor	• USB-A port • USB-B port • Codec port • VCH port(RJ-45) or Equivalent • RCA in/out interface • 6.3mm Line in interface • 6.3mm Line out interface • power interface	Yes	Yes
		• Dividable and merging meeting rooms are supported • Support intelligent multi-speaker tracking	Yes	Yes
7	USB PTZ Camera x 02 (QTY)	• 4K Sensor • 20.4 × HD zoom (12x optical, 1.7x digital) • Angle of view: -90° DFOV, 81° HFOV, 50° VFOV (Telephoto lens) -120° DFOV, 110° HFOV, 78° VFOV (Panoramic lens) • Auto-framing • Speaker tracking • Presenter tracking, support area trigger and gesture control • Multi-focus, • Picture-in-picture, • Up to 9 preset positions can be set • Horizontal rotation: 200° • Vertical rotation: 130°	Yes	Yes
		• HDMI output • microphone port(RJ-45) • USB 3.0 Type-B port • USB 2.0 Type-A Port • Power Port, • Security Lock, • Reset Hole	yes	yes
8	External Mics x 3 (QTY)	External Mic of same quoted brand	Yes	Yes
9	Displays x 2 (QTY)	1 x 65" Smart LED with Installation on a sturdy, heavy-gauge metal portable trolley stand with moveable tires.	Yes	Yes

LOT NO. 9: SUPPLY & INSTALLATION OF VIDEO CONFERENCING (VC) EQUIPMENT (ENTERPRISE LEVEL) FOR SINDH HIGH COURT, BENCH AT SUKKUR.
(01 Set). (ON EX-STOCK BASIS ONLY)

S. NO	MAKE & MODEL	DESCRIPTION	MANSHA BROTHERS	SYED BUSINESS SOLUTIONS (SBS)
1	Package should include the content	• Gen-3 Mini-PC • Gen-3 touch panel • AVHub, audio and video processor • 2 USB PTZ camera & 2 additional mics • 2 x wireless presentation pod • Room Sensor, meeting room sensor	BRAND: Yealink MODEL: ZVC S90 Yes	BRAND: Yealink MODEL: ZVC S90 Yes
2	Must preload	• Windows 11 IoT Enterprise X64 • Windows 11 IoT Enterprise License • Zoom Rooms App • Room Connect *Windows 11 will be supported in 23H2	Yes	Yes
3	Gen-3 Mini-PC	• 11th Gen Intel® Core i5 or higher • Memory: 8 GB (2 x 4GB) or higher, • Storage: 128 GB SSD or higher • 3x HDMI video output with CEC supported, • TPM2.0, • Kernel DMA, • EDID • Wi-Fi: IEEE 802.11 a/b/g/n/ac/ax, • Bluetooth: BT 5.2 • 1 x port (RJ45), connect to E2 or equivalent, • 4 x USB 3.0 Type-A • 1 x 10/100/1000M Ethernet port, • 1 x Power port, • 1 x Security lock slot, Integrated cable management	Yes	Yes
4	IPS Touch Display	• 11.6-inch narrow bezel IPS display, • 1920 x 1080 video resolution • Angle between screen and desktop (30° ~ 70°) • Adjustable angle of support frame (50° ~ 180°) • Support wired and wireless (with WPP30) content sharing • Support multi-screen control* • Support third-party screen sharing* • Support external PD power supply to power the sharing device • Support HDMI/USB-C video input • Support desktop placement, desktop fixed, wall-mounted deployment	yes	yes
5	Room Sensor	• Detection angle: 120° • Adjustable detection angle: ±20°		

S. NO	MAKE & MODEL	DESCRIPTION	MANSHA BROTHERS	SYED BUSINESS SOLUTIONS (SBS)
		• power port, • security lock slot, • reset slot, • HDMI-out, • Built-in Wi-Fi	Yes	Yes
5	Others	Multi-stream Intelliframe, Intellifocus	Yes	Yes
6	External Mic x 1	External Mic of same quoted brand	Yes	Yes
7	Display	55" SMART LED TCL/Samsung/Hi-Sense or Equivalent	Yes	Yes
8	Services	Installation, Testing & Commissioning Charges.	Yes	Yes
9	Warranty	1-3 Years	Yes	Yes
		Qualified Preliminary Technical Criteria: (Yes/No)	Yes (Responsive)	Yes (Responsive)