

Schedule-B**Name of Work: - AUDIO VISUAL works for - Construction of Conference Hall at A.O Building Gandhidham**

SR. No	DESCRIPTION	UNIT	QTY.	RATE (RS.)	AMOUNT (RS.)
1	Supply, Installation, Testing and commissioning (SITC) of FOH loudspeaker transducer apparatus to be supplied shall comprise no fewer than a dual-array of minimum Nine elements of 2.5-inch nominal diameter drivers constructed using high-efficiency neodymium magnetic structures, configured to deliver an electro-acoustic output with a rated nominal impedance of minimum 4Ω or better as per technical specification no. 1.	Each	2		
2	Supply, Installation, Testing and commissioning (SITC) of Filler Speakers shall incorporate a transduction array comprising no fewer than a quad-set configuration of minimum 2.5-inch driver elements utilizing neodymium magnetic motor topology, arranged for coherent broadband acoustic emission. The nominal system impedance shall be defined at a minimum 4 ohms or superior equivalent, permitting optimized loading under networked amplification as per technical specification no. 2.	Each	6		
3	Supply, Installation, Testing and commissioning (SITC) of shall be of a construction wherein the capsule shall embody condenser transduction principle, and the acoustic directivity shall be engineered to conform to a minimum super-cardioid polar pattern configuration in order to facilitate heightened off-axis rejection and focused vocal acquisition from intended sources while minimizing ambient intrusion as per technical specification no. 3.	Each	105		
4	Supply, Installation, Testing and commissioning (SITC) of core processing apparatus forming the nucleus of the conferencing ecosystem shall be constructed to manage and administer high-capacity, real-time speech transmission and control within professional discussion environments. The system shall be required to accommodate and regulate a minimum of four distinct microphone activation logics, which shall include FIFO (first-in-first-out) as per technical specification no. 4.	Each	1		

5	Supply, Installation, Testing and commissioning (SITC) of equipment intended for integration as a power distribution interface within the digital conference architecture shall incorporate an embedded energy conversion and regulation subsystem designed to deliver stabilized DC power suitable for distributed microphone array infrastructure. The internalized power module as per technical specification no. 5.	Each	4		
6	SITC of digital signal processing (DSP) core device to be provisioned shall constitute a fully integrated modularized audio signal manipulation matrix, comprising embedded functionalities for automatic signal route management, signal refinement, and high-order real-time processing, purpose-engineered to facilitate conferencing, presentation, and distributed as per technical specification no. 6.	Each	1		
7	Supply, Inst., Test. & Comm. (SITC) of PTZ Camera 4K proposed imaging and optical acquisition apparatus intended for use within environments necessitating ultra-high-definition video reproduction and automated tracking functionalities shall be equipped with a minimum of one newly developed, high-fidelity CMOS sensor with a dimensional specification not inferior to 1/2.5-inch format and shall exhibit effective pixel utilization not less than 8.29 megapixels as per technical specification no. 7.	Each	3		
8	Supply, Installation, Testing, and Commissioning (SITC) of Document Camera device proposed for deployment shall incorporate an integrated camera subsystem utilizing a minimum 1/4-inch HD CMOS imaging sensor which shall not be of lesser capability than an 8 Mega Pixel array with native resolution not below 3264 x 2448 pixels, and the system shall exhibit functionality of frame acquisition at a minimum rate of 15fps at said native as per technical specification no. 8.	Each	1		
9	Supply, Installation, Testing, and Commissioning (SITC) of equipment to be provisioned shall incorporate a computational module utilizing a minimum of Intel® Core™ i5-1135G7 processing architecture, integrating a dual-channel memory configuration comprising not less than 2 x 4GB modules, which shall conform to industry standards for synchronous operation. The graphical subsystem shall be embedded with a minimum Intel® Iris® Xe Graphics iGPU for rendering acceleration and multi-display output support as per technical specification no. 9.	Each	1		

10	Supply, Installation, Testing and commissioning (SITC) of integrated Hight Adjustable digital podium system interactive display unit shall incorporate an active-matrix LCD panel having a diagonal visual dimension not less than 27 inches, constructed with edge-illuminated direct-lit backlighting architecture, and employing a native resolution threshold of minimum 3840 by 2160 physical pixel matrix, adhering to UHD standards. The luminance intensity shall not be rated below 400 cd/m ² as per technical specification no. 10.	Each	1		
11	Supply, Installation, Testing, and Commissioning (SITC) of integrated interactive terminal assembly to be proposed shall be comprised of a high-definition visual display system, conforming to a minimum native diagonal dimension not less than 15.6 inches and engineered to deliver a screen resolution threshold not lower than Full High Definition (1920 × 1080 pixels) or equivalent display fidelity. The aspect ratio of the visual rendering component shall conform to a minimum standard of 16:09, as per technical specification no. 11.	Each	1		
12	Supply, Installation, Testing, and Commissioning (SITC) of unified multi-function visual collaboration interface shall be configured to operate across a minimum resolution of UHD 4K, enabling the rendering of sharp pixel-defined clarity during multi-modal screen sharing applications. System architecture should incorporate a minimum quad-core processing element of the ARM Cortex A55 classification, in tandem with memory allocation not below 8G DDR paired with persistent storage as per technical specification no. 12.	Each	1		
13	Supply, Installation, Testing, and Commissioning (SITC) of supplied interactive visual collaboration unit shall be of large-format construction with a minimum diagonal dimension not less than 110 inches, featuring a zero-bonded panel architecture ensuring minimized parallax deviation and enhanced visual performance with uniform image depth perception across the full viewing envelope as per technical specification no. 13.	Each	1		

14	Supply, Installation, Testing, and Commissioning (SITC) of display solution to be proposed shall comprise a minimum 65-inch diagonal active matrix panel, constructed on In-Plane Switching (IPS) technology and employing a Slim Direct LED (DLED) backlighting mechanism, intended for professional-grade applications in both landscape and portrait orientation, operating continuously under 24x7 environmental conditions. The display shall offer a minimum luminance of 500 candela per square meter or better under standard operating conditions, and shall achieve a typical static contrast ratio not below as per technical specification no. 14.	Each	8		
15	Supply, Installation, Testing, and Commissioning (SITC) of intelligent digital interface switcher solution shall provide comprehensive routing capabilities for a minimum of four independent ultra-high-definition multimedia video sources to a single display output node, incorporating integrated keyboard-video-mouse (KVM) control architecture, wherein simultaneous switching of video and USB HID signals shall be facilitated through embedded signal path synchronization protocols as per technical specification no. 15.	Each	1		
16	Supply, Installation, Testing and commissioning (SITC) Video Switcher shall be a high-performance, multi-format matrix switching platform incorporating advanced signal distribution architecture based on HDBaseT transmission standards. It shall integrate a minimum of eight (08) independent HDMI input interfaces conforming to TMDS signalling levels in the range of 2.9V to 3.3V, with a differential input impedance of not less than 100 ohms as per technical specification no. 16.	Each	1		
17	Supply, Installation, Testing and commissioning (SITC) receiver unit to be deployed the HDBaseT signal transmission infrastructure shall be engineered to decode and reconstruct digital video/audio signals with fidelity conforming to the HDMI 1.4 and HDCP 1.4 standards or better. The unit shall incorporate a single input interface based on HDBaseT protocol, utilizing as per technical specification no. 17.	Each	7		

18	Supply, Installation, Testing and commissioning (SITC) of HDMI Distribution Amplifier unit proposed for signal distribution in AV applications shall incorporate a single high-speed digital video input interface based on HDMI Type-A female connector configuration, compliant to a minimum HDMI Version 2.0 standard, and shall be capable of receiving video signal resolutions as per technical specification no. 18.	Each	1		
19	Supply, Installation, Testing, and Commissioning (SITC) of network switching apparatus to be proposed shall conform to a 1U form factor suitable for standard rackmount installations and shall incorporate a configuration comprising a minimum of twenty-four copper interfaces operating at 1GBASE-T standard, each supporting PoE++ delivery, augmented by two additional copper ports of the same bandwidth specification as per technical specification no. 19.	Each	1		
20	Supply, Installation, Testing, and Commissioning (SITC) of wireless local area network (WLAN) access device to be deployed shall be designed as a dual-radio transmission unit compliant with IEEE 802.11ax (WiFi 6) standards, supporting operation across both the 2.4 GHz and 5 GHz ISM bands. The access device shall incorporate a dual-stream (2x2) radio configuration on each frequency band, with minimum support for 20 MHz as per technical specification no. 20.	Each	1		
21	Supply, Installation, Testing and commissioning (SITC) of Fiber optic HDMI cable, boasting a length of 20 meters and equipped with connectors, shall be capable of maintaining a 90-degree cable angle, thereby ensuring a precise and nuanced signal transmission. This high-speed HDMI to HDMI cable, with a bandwidth of 18Gbps, shall support subsampling rates of 4:4:4/4:2:2/4:2:0, thereby facilitating the transmission as per technical specification no. 21.	Each	8		
22	Supply, Installation, Testing and commissioning (SITC) of Fiber optic HDMI cable, boasting a length of 10 meters and equipped with connectors, shall be capable of maintaining a 90-degree cable angle, thereby ensuring a precise and nuanced signal transmission. This high-speed HDMI to HDMI cable, with a bandwidth of 18Gbps, shall support subsampling rates of 4:4:4/4:2:2/4:2:0, thereby facilitating the transmission of high-definition video signals, including HDTV, 3D, and 2160p/1080p	Each	8		

	resolutions. Furthermore, this cable shall be compatible with HDCP2.2, Ethernet, ARC, HDR, Ultra HD, and UHD 4K, as per technical specification no. 22.				
23	Supply, Installation, Testing and commissioning (SITC) of Fiber optic HDMI cable, boasting a length of 5meters and equipped with connectors, shall be capable of maintaining a 90-degree cable angle, thereby ensuring a precise and nuanced signal transmission. This high-speed HDMI to HDMI cable, with a bandwidth of 18Gbps, shall support subsampling rates of 4:4:4/4:2:2/4:2:0, thereby facilitating the transmission of high-definition video signals, including HDTV, 3D, and 2160p/1080p resolutions as per technical specification no. 23.	Each	10		
24	Supply, Installation, Testing and commissioning (SITC) of high-performance twisted-pair cabling medium conforming minimally to the structured format of Category 6A transmission class, constituted of four (4) twisted conductor pairs individually encompassed within foil screening elements, encapsulated overall within a sheath conforming to LSOH (Low Smoke Zero Halogen) or PVC typology, as per technical specification no. 24.	Mtr	1000		
25	Supply, Installation, Testing and commissioning (SITC) of Signal Cable Supply, Installation, Testing, and Commissioning (SITC) of shall be of Minimum 2 Core Shielded Signal transmission configuration or better, incorporating a Minimum outer PVC jacket or better with a diameter of no less than Minimum ø 8.80 mm or better, finished in marine blue or equivalent shade. Shielding integrity shall be ensured through a Minimum dual-layered shield construct or better, as per technical specification no. 25.	Mtr	300		
26	Providing, laying, connecting, testing and commissioning of 20 Mtr. length minimum required high-speed USB extender interface solution, consisting of one end terminated with minimum Type-A Male and the other with minimum Type-A Female connector, designed for dedicated support of USB 3.0 compliant devices exclusively (excluding backward compatibility with USB 2.0/1.1), ensuring minimum sustained data transfer throughput of 5Gbps or better, as per technical specification no. 26.	Each	5		

27	Providing, laying, connecting, testing and commissioning of 5 Mtr length minimum required high-speed USB extender interface solution, consisting of one end terminated with minimum Type-A Male and the other with minimum Type-A Female connector, designed for dedicated support of USB 3.0 compliant devices exclusively (excluding backward compatibility with USB 2.0/1.1), as per technical specification no. 27.	Each	5		
28	Supply, Installation, Testing and commissioning (SITC) of 32 U Equipment rack Construction The standard rack shall be constructed with a welded frame comprising four pillars made of 1.5 mm thick Cold Rolled Close Annealed (CRCA) sheet, utilizing a five-fold profile for enhanced structural integrity. The frame shall be reinforced through welding from the top to the bottom and connected to top and bottom as per technical specification no. 28.	Each	1		
29	Supply, Installation, Testing and commissioning (SITC) of installation of system interconnects shall include, but not be limited to, male and female XLR connectors, jack pin EP to RCA connectors, and all other necessary interconnects as required as per technical specification no. 29.	Lot	1		
30	Programming and Calibration Charges of Confrance Room Systems as per technical specification no. 30.	Job	1		
		AMOUNT			
(In Words Rupees _____)					
Note :- The rates should be inclusive of all taxes, duties, fees, cess, etc. and all incidental charges, but exclusive of GST.					

Seal & Signature of Contractor

Executive Engineer (E)
Deendayal Port Authority