

**PART-VI PRICE BID**

(To be submitted in sealed envelope marked “Envelope No. 2- Price Bid”)

**TERMS OF PRICE BID**

- 1) Prices quoted must be firm for the period /extended period of contract. No escalation shall be admissible in respect of any item of the contract.
- 2) Price quoted must be inclusive of all items required for the entire job of design, manufacture, supply to site, erection, testing, commissioning, and handing over of the equipments, nothing extra shall be paid. The price quoted shall be inclusive of all taxes except GST.
- 3) All materials shall be insured against theft, damage, etc., from the time they are transported from the factory upto the time of handing over to the owner. No claim in respect of any damage/ loss shall be entertained.
- 4) Watch and ward responsibility at site shall be the responsibility of the firm.
- 5) ALL RATES MUST BE QUOTED INCLUDING ALL CHARGES AND TAXES EXCEPT GST
- 6) **AMC RATES:** WITH REGARD TO AMC, THE RATES SHOULD BE QUOTED EXCLUDING GST. APPLICABLE TAXES WILL BE PAID DURING THE COURSE OF AMC. AMC SHALL ALSO COVER THE EXISTING CABLING WORK CARRIED OUT AT THE PREMISES.
- 7) **The value of items A of Price bid & Present Value of the AMC amount for 4 years after completion of Defect liability period will be commuted for arriving lowest bidder (L1).**
- 8) **The price bid must be submitted on letter head of the contractor’s firm and it must be in the same format.**

Calculation of Present Value : The Present value of AMC charges for 4 years after 1 year defect liability period will also be evaluated to arrive at Lowest tenderer ( L-1). The present value of the AMC component per year will be calculated as per the following formula:

$$\text{Present Value} = c / (1+r)^n$$

Where 'c' is the annual CAMC of each year

'r' is Bank Prime lending rate which is at present 10 %

'n' is number of years, ie., n is 1 for 1st year and 2 for 2nd year...The

above mentioned calculation is for Price comparison purpose only.

Therefore, the tenderers / contractors shall furnish the AMC charges in the price bid for 4 years and the AMC shall be Comprehensive AMC (CAMC). The price quoted is subject to arithmetic errors i.e. incase there is error, the individual sum total shall be considered.

**SIGNATURE OF THE TENDERER WITH SEAL**

## AUDIO VIDEO SYSTEM AT CANARA BANK CIRCLE OFFICE, GIFT CITY, GANDHINAGAR

### BILL OF QUANTITY

Sr. No	Description	Qty.		Unit Rate Rs.	Total Rs.
<b>CONFERENCE ROOM EQUIPMENT</b>					
1	Supply, Installation, Testing and Commissioning of 75" UHD Display should have 3840 x 2160 4K Resolution, 350 nit Brightness, mega Contrast Ratio, 178/178 Viewing Angle, 8ms Response Time, 16/7 Operation Hour, 72% color gamut. It should have 1 x DVI-D, 2 x HDMI 2.0, 1 x HDCP 2.2, 2 X USB, Stereo Mini Jack, DVI/HDMI/Audio Input Connectivity and Out Put Connectivity should be Audio: Stereo mini jack, External Control : RS232C, External IR Sensor. Built in 20W Speaker. Maximum Pixel Frequency : 594MHz, V-Scanning Frequency : 48 ~ 75HZ, H-Scanning Frequency : 30 ~ 81kHz, Maximum 220W/h Power Consumption, Operating Temperature : 0 °C ~ 40 °C, Humidity : 10%~ 80%, Power Supply : AC 100 - 240 V~ (+/- 10 %), 50/60 Hz. Approved Make : Samsung / Panasonic / Sony	1	No.		
<b>Rate in Words</b>					
2	Supply, Testing and Commissioning of Wall Bracket for Video Wall. Approved Make : Standard	4	No.		
<b>Rate in Words</b>					
3	Supply, Installation, Testing and Commissioning of 43 inch UHD Display should have 3840 x 2160 4K UHD Resolution, 250 nit Brightness, 4700:1 Contrast Ratio. It should have 8ms Response Time, 72% Color Gamut, 16/7 Operation Hour, 178:178 Viewing Angle, 16.7 M Display Colors. It should have 2 x HDMI, 1 x USB, RF 1 Terrestrial / 1 Cable Input connectivity and 1 x Optical audio, 1 x RJ45, Output wireless connectivity. It should have maximum 140 power consumption, AC110-120V 50/60Hz Power Supply. Approved Make : Samsung / Panasonic / LG	1	No.		
<b>Rate in Words</b>					
4	Supply, Testing and Commissioning of Video Conferencing System with USB PTZ camera and central hub for connecting the laptop to the meeting room with single USB 3.0 connectivity. Versa 150 hub Connects your laptop via single USB 3.0 connection to Dual displays, Camera, Audio, Network. USB PTZ camera should have Full HD video with 1080p@30fps, 12x optical zoom, 73° wide angle, Advanced 2D and 3D noise reduction. First mic priority intelligence, Wideband audio frequency response should be 20Hz20kHz, Large loudspeaker with Max Output Level: 85 dB SPL @ 1 meter, Distributed Echo Cancellation. It should have Cloud video and web conferencing, Virtual meeting room with 25 participants, Instant messaging and presence, Capture up to 4 cameras simultaneously. Approved Make: Clearone / Polycom / Avaya	1	Set		
<b>Rate in Words</b>					
5	Supply, Testing and Commissioning of 1 x 4 HDMI Splitter with extended out should support 4K/UHD resolutions, HDCP 2.2, and HD multi-channel audio formats, splits a single hdmi 4k/UHD source to four 4k/UHD display devices, supports resolutions up to 4k@60hz. Approved Make : Wyrestorm /Kramer/Crestron	1	No.		
<b>Rate in Words</b>					

6	Supply, Testing and Commissioning of USB Extender should extend a Super Speed USB signal beyond the 16 ft. (5 m) limitation up to 98 ft. (30 m) over cat 6 cable, should be compatible with the USB, the extender boasts speeds up to 5 Gbps. Approved Make : Clearone/ Kramer/ Extron	1	No.		
<b>Rate in Words</b>					
7	Supply, Testing and Commissioning of 24 Port POE Network Switch with 2 Fiber Ports, 24 RJ-45 connectors for 10BASE-T, 100BASE-TX and 1000BASE-T (Auto Uplink on all ports). It shall be 2 Dedicated 100/1000X Fiber SFP ports. Bandwidth should be 52 Gbps and Packet buffer 2Mb. Approved Make : Netgear / Cisco / D-Link	1	No.		
<b>Rate in Words</b>					
8	Supply, Testing and Commissioning of Wireless Presentation Device with high quality video streaming, supports full HD 1080p/60, Up to two participant screens can be displayed simultaneously on main screen, features content streaming with crystal-clear mirrored images and stunning video playback and includes iOS, Windows and Android mirroring. It is easy and flexible to install with both built-in Wi-Fi and LAN connectivity and includes industry-leading 1024-bit encryption for secure use on the internal network. It should have 3.5mm mini jack Audio Output, 2GB Main Memory, 45W Power Supply, 100V~220V AC, 50/60Hz Input voltage. . Approved Make :Kramer / Crestron/ Extron/Wyrestorm	1	No.		
<b>Rate in Words</b>					
9	Supply, Testing and Commissioning of Audio-Video Controller which connects infrared devices to a TCP/ IP network, including IR input, RS232 and sensors to a TCP/IP network, Relay to a TCP/IP network. It connects any AV Equipment to a network so that it can be accessed, controlled, and maintained from anywhere over a network or the Internet. It should have 1 x Power Input, 1 x Network Connection, 2 x Serial Ports, 3 x Relay Connections, 6 x independent IR outputs or sensor inputs. Approved Make: Kramer / Global Cache / Rti	1	No.		
<b>Rate in Words</b>					

10	<p>Supply, Testing and Commissioning of multi view display decoder for the NetworkHD should be Capable of displaying up to 8 simultaneous video feeds on a single display in a variety of configurations, should be ideal for commercial monitoring of remote displays within a venue from a central location to quickly verify content transmitted to screens, multiple layouts to choose from including single, dual and quad view grid layouts and preset multiscreen arrangements - up to 10 on-screen layouts available, Graphic or logo can be inserted into central image placeholder for screen indication or additional branding, Forced resolution output scaling, Capable of 4K scaling of images or 4 images can be displayed in a grid at their native 1080p resolution, Instant switching with, RS-232 with integration with leading 3rd party control systems, CEC control of connected displays, Analogue audio breakout, Separate audio switching, Multiple units can be combined to suit the monitoring needs of the project, Dramatically reduces the number of components required to monitor a venue - less decoders and screens - for reduced project complexity and less potential points of failure within installations, provides video wall-like functionality on large screens or multiple screens combined with different layouts for custom display configurations, Backwards compatible - able to be added to any existing system. System should have terminals as 1x LAN for VIDEO IN, Video Out HDMI x 1, Input video resolution 1920x1200p @60Hz 8bit, output video resolution as 3840x2160p @30Hz 8bit, End-to-End Time Latency About 60 ms-90 ms (Low latency mode), About 250 ms-300 ms (High quality mode), RS-232 x 1, 1x 8-pin RJ-45 female 10/100/1000Base-T PoE, 0°C to 45°C operating temperature with 10% to 90% humidity, -20°C to 70°C Storage Temperature and less than 6W Power Consumption. Approved Make : Wyrestorm / Rampo / Key Digital</p>	1	No.		
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**Rate in Words**

11	<p>Supply, Testing and Commissioning of highly scalable, visually lossless HD over IP solution using the most efficient compression technology, should have plug and play setup with automatic networking configuration and auto discovery of components, should supports video previewing on a PC or third party device, should be use with the controller for simple configuration and control via the LAN, as well as for allowing control from third party control system, supports PoE to enable remote powering from POE network switches, eliminating the need for a nearby power outlet, HDCP, configurable encoding bit rate up to 40 Mbps. System should have terminals as 1x HDMI IN, Video Out LAN x 1, Input video resolution a like 640 x 480 @ 60Hz, 480p @ 60Hz, 576p @ 50Hz, 800 x 600 @ 60Hz, 1024 x 768 @ 60Hz, 720p @ 50Hz, 720p @ 60Hz, 1280 x 800 @ 60Hz, 1280 x 1024 @ 60Hz, 1360 x 768 @ 60Hz, 1366 x 768 @ 60Hz, 1400 x 1050 @ 60Hz, 1440 x 900 @60Hz, 1680 x 1050 @ 60Hz, 1080p @ 24Hz, 1080p @ 25Hz, 1080p @ 30Hz, 1080p @ 50Hz, 1080p @ 60Hz, 1920 x 1200 @ 60Hz, output video resolution as 480p @ 60Hz ~ 1920 x 1200 @ 60Hz, 352 x 288 @ 5Hz, End-to-End Time Latency About 60 ms-90 ms (Low latency mode), About 250 ms-300 ms (High quality mode), 1 x Phoenix Connector, RS-232 x 1, 0°C to 45°C operating temperature with 10% to 90% humidity, -20°C to 70°C Storage Temperature and less than 6W Power Consumption. Approved Make : Wyrestorm /Extron/ Kramer</p>	8	No.		
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**Rate in Words**

12	Supply, Testing and Commissioning of IP Controller should be used as an AV control device for managing, configuring and controlling H.264 NetworkHD Series encoders and decoders within a local area network to provide easy set up and control the entire complete end-to-end AV over IP streaming system, should automatically detects and displays any H.264 encoders and decoders connected to the system for effortless initial system set up and future expansion, with full support of imported configuration files from the PC configurator or third party for flexible encoder and decoder operation such as matrix switching, video wall and multi-view, should Interface to major control systems through powerful drivers, should be with dual PoE Ethernet Ports for complete isolation of control and AV network traffic, IP control via LAN and a third party controller, dual RS-232 for Control and update/debug, should support matrix switching between H.264 encoders and decoders, extends transmission distance to a minimum of 100m/328ft, should be with threaded DC 12V power connection, LED Power and Status indication, Unit reset button, Unit label holder, should have operating temperature of 32°F ~113°F(0°C ~+45°C) 10% ~90%, non-condensing and storage temperature of -4°F ~ 140°F (-20°C ~ +70°C) 10% ~ 90%, non-condensing. Approved Make : Wyrestorm /Extron/ Kramer	1	No.		
<b>Rate in Words</b>					
13	Supply, Testing and Commissioning of Pop UP Box should provide an extremely simple, affordable and elegant single-push pop-up multi-connection solution. By pressing down gently on the lid, the unit opens and closes pneumatically, fast and easy to install and flexible to configure, should have HDMI, Audio, Power, CAT6 inputs. Approved Make : Panara / Kramer/ Logic	7	No.		
<b>Rate in Words</b>					
14	Supply, Testing and Commissioning of Digital Signal Processor should be multipurpose software based digital audio signal processor with a total of 8 balanced analog line level audio I/O. a software definable bank of 8 balanced analog audio I/O Flex Channels where each channel can be independently configured. System should be with class leading 24 analog I/O density & additional specialized I/O such as VoIP, POTS, Internal Media Playback/Recording HDD and USB, supports a class leading USB audio device port connection that enables the processor to appear in a Microsoft Windows or Mac OS host operating system simultaneously as both a USB Audio and Communications device, USB Device port supports up to 16x16 digital audio channels in a flexible, should provide USB Host ports which host external USB devices and future peripheral products. 16 GPI/O, Internal Universal Power Supply plus 12 Volt DC External Power Supply input for redundancy or non-mains power supply sources, control and monitoring via Designer software over Ethernet with support for static or Auto/DHCP TCP/IP addressing, POTS telephone interface via a standard RJ-11 connector, Supports up to 4 VoIP Softphone instances. Approved Make : QSC / Clearone / Shure	2	No.		
<b>Rate in Words</b>					
15	Supply, Testing and Commissioning of Wireless Hand Held Microphone with Audio Frequency Response : 50 Hz to 15 kHz, RF Level Switch between 1mW and 10mW, 2 "AA" batteries, Up to 10 hours of battery life, Bottom on/off switch design, Audio Input Level: -20 dBV maximum, SVX 24/PG58, Input Impedance: 22 kΩ, Receiver : Up to 8 selectable channels, Up to 4 compatible systems, Antenna Switching Diversity, Adjustable Squelch Level, Mic / Line Switch, Power Supply: 12-18V, Maximum Output Level: -19 dBV (XLR), -5 dBV (1/4") (ref. +/-33kHz deviation with 1 kHz tone) mW. Approved Make :Shure /Beyerdynamic / Sennheiser	1	No.		
<b>Rate in Words</b>					

16	Supply, Testing and Commissioning of Wireless Tie-Pin Microphone. Centraverve Lavalier offers convenience and performance in an easy-to-use, clip-on cardioid condenser microphone, Up to 8 selectable channels, Up to 4 compatible systems. Antenna Switching Diversity. Adjustable Squelch Level. Mic / Line Switch. 2 Audio Output: 1/4" Connector - XLR Connector. Type Electret Condenser Frequency Response 50 to 20,000 Hz Polar Pattern Unidirectional (Cardioid) Output Impedance @ 1 kHz, typical: 600 Ω Audio Output Level: -43.5 dBV/Pa Signal-To-Noise Ratio @ 1 kHz : 72 dB Maximum SPL1000 Ω load, @ 3% THD: 139.0 dB Dynamic Range @ 1 kHz, 1000 Ω load : 117.0 dB, Equivalent Output Noise Typical, A-Weighted: 22 dB, Power Requirements: +5 V DC (nominal), 10 V maximum (DC bias). Approved Make : Shure /Beyerdynamic / Sennheiser	1	No.		
<b>Rate in Words</b>					
17	Supply, Testing and Commissioning of miniature electret condenser gooseneck microphones with a desktop base should have wide dynamic range of 94Db at 1 kΩ load and frequency response from 50Hz to 15000Hz for accurate sound reproduction across the audio spectrum, should have interchangeable cartridges provide the right polar pattern for any application, should have balanced, transformer less output for increased immunity to noise over long cable runs, should have programmable on/off switch and LED on/off indicator, logic input and output terminals for remote control, should have 150Ω rated output impedance, min. 45dB or more common mode rejection, 50dB or more multi switch attenuation, preamplifier output clipping level of -6.0 dBV at 1% total harmonic distortion as per technical specifications as required. Approved Make : Shure / Sennheiser/ Beyerdynamic	30	No.		
<b>Rate in Words</b>					
18	Supply, Testing and Commissioning of 6" Wall Mount Speaker should have Rated power output 40W, 20W, 10W, 5W at 100V,6" woofer and 1.5" tweeter two way speaker units, Line input 100V or 70V, 100Hz to 20kHz frequency response, 89dB SPL. Approved Make : CRESTRON/ JBL / Quest	8	No.		
<b>Rate in Words</b>					
19	Supply, Testing and Commissioning of 2-Channel Class-D Power Amplifier with ultra efficient drive core technology. It should Increased lighting functionality, having Higher DSP capabilities, 1.4Vrms and .775Vrms Selectable input sensitivity, XLR, 1/4", RCA inputs provide flexibility, Remote power trigger, System reset allows factory settings to be restored. It should have < 0.3% Intermodulation Distortion, > 200 Damping Factor, +0dB, -1dB Frequency Response, 1.4Vrms Sensitivity, >103dB Signal to Noise Ratio, < 0.5% THD, @ 1kHz: > 85dB, @ 20kHz: > 55dB Crosstalk.. Approved Make : Crown / QSC/Crestron	1	No.		
<b>Rate in Words</b>					

20	Supply, Testing and Commissioning of Wireless Router with 300 Mbps Speed with integrated Antenna. Approved Make : Netgear / Quantum / Cisco	1	No.		
<b>Rate in Words</b>					
21	Supply, Testing and Commissioning of I-Pad should have LED-backlit Multi-Touch display with IPS technology, 2732x2048-pixel resolution at 264 pixels per inch, Fingerprint-resistant oleo phobic coating, Fully laminated display, Anti-reflective coating, 600 nits brightness, 1.8 per cent reflectivity, 600 nits brightness, 12-megapixel camera, 4K video recording at 30 fps or 60 fps, 1080p HD video recording at 30 fps or 60 fps, 720p HD video recording at 30 fps, Noise reduction, Portrait mode. Approved Make : Apple	1	No.		
<b>Rate in Words</b>					
22	Supply, Testing and Commissioning of Launch Port should charge, mount and protect iPad. The system consists of two main components: a Station and a Sleeve, Station holds an iPad-in-Sleeve, and charges the iPad while mounted and held. Launch Port Sleeve should be with an array of magnets which are used to mount to a Station provide a precise and secure connection while the Sleeve lays on the Base Station that makes mounting and charging truly effortless and flexible for a variety of commercial and residential applications. Approved Make : Launch Port	1	No.		
<b>Rate in Words</b>					
23	Supply, Testing and Commissioning of connectors like XLR, Jack, RCA, etc. Approved Make : Standard	1	Set		
<b>Rate in Words</b>					
24	Installation Charges	1	Time		
<b>Rate in Words</b>					
<b>Total Amount (excluding GST) (A)</b>					
<b>Amount in Words</b>					

## PRICE BID FOR AMC OF COMPONENTS

	Description to be read along with terms and conditions of the tender document	Amount [C]	Present value
	Comprehensive maintenance charges with full responsibility of existing cabling and carrying out repair and supply of required original spare parts to keep up the entire Audio conference and Video display system in fully operational condition for a period of 4 years, after expiry of 1 year free servicing and warranty period.		
1	1 <sup>st</sup> YEAR (Excluding taxes)  <b>Amount in Words</b>		
2	2 <sup>nd</sup> YEAR (Excluding taxes)  <b>Amount in Words</b>		
3	3 <sup>rd</sup> YEAR (Excluding taxes)  <b>Amount in Words</b>		
4	4 <sup>th</sup> YEAR (Excluding taxes)  <b>Amount in Words</b>		
	<b>Total EXCLUDING GST (B)</b>		
	<b>GRAND TOTAL (A+B) (EXCLUDING GST)</b>		
	<b>AMOUNT IN WORDS</b>		

**SIGNATURE OF THE TENDERER WITH SEAL**