BID FOR SUPPLY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF SOFTWARE BASED VIDEO CONFERENCING FACILITY AT VARIOUS OFFICES OF STATE TAX DEPARTMENT, AND OPERATION & MANAGEMENT SERVICES FOR 5 YEARS ON BEHALF OF STATE TAX DEPARTMENT, AHMEDABAD
TENDER NO. HWT251019591
(XX.11.2019)

Eligibility Criteria

Sr. No.	Existing Criteria	Revised Criteria
1	Bidder must have experience of supply, installation & maintenance of software based Video Conferencing system. Bidder should have received and executed at least 2 work orders of above mentioned work of minimum value of Rs. 10 lacs each in last 3 years. Customer references & Purchase orders must be attached along with the bid	Bidder must have experience of supply, installation & maintenance of Video Conferencing system. Bidder should have received and executed at least 2 work orders of above mentioned work of minimum value of Rs. 10 lacs each in last 3 years. Customer references & Purchase orders must be attached along with the bid

Revised Minimum Technical Specification

1. **Software based Video conferencing Solution Feature/Specifications:**

1.1 Proposed solution should be web based that connects the participants over secure internet connection. It addition to that it is capable of hosting multiple meetings.

1.2 Proposed solution should have facility for individual audio mute.

1.3 Chatting, document sharing, screen sharing should possible.

1.4 Solution should generate Unique meeting ID and should have facility for instant scheduling of meetings.

1.5 Solution should have mobile user gateway with clientless login for Windows desktop, MacOS, Android, IOS Mobile devices right from day 1

1.6 It should support minimum 24 videos in continuous presence.

1.7 Solution should have capability to share Data in Multipoint to Multipoint conference through link

1.8 Solution should support and provide video up to FHD resolution and content to 1080p with support of (4:3) and wide screen (16:9) content

1.9 Solution should support minimum 25 users to join.

1.10 System should be 128-bit Fully Encrypted Video Conference Meetings to ensure encrypted data flows.

1.11 Solution should support 500 registered clients and all registered clients should be able to do Full HD point to Point Video Calls without using MCU ports. The Users should be able to make instant video call with online contacts.

1.12 The Software based Video conferencing Solution shall include 25 users' licenses for 5 years.

The bidder shall have to submit the compliance of the above features on OEM letter pad.

2. High Definition Video Conferencing System 1080p (Minimum Technical Specification) for Head Office at Ahmedabad

Features	Specifications	Matched/ Not Matched	Deviations/Remarks (If Any)
System	The VC Unit should be delivered with a codec with an external camera and two wireless external microphones. The unit should be equipped with a panel for operation, audio cables, presentation cables, network cables, HDMI Cables and wall mount kit.		
Video Standards	H.263 / H.264 or better		
	H.264 in an Encrypted call should be possible		
	~~H.264 should be possible when sending or receiving two live video sources e.g. Presenter and Presentation.~~		
Video Frame Rate	Should support 60 fps or higher (frames per second) with 1080p resolution from day one		
Video Features	Ability to send and receive two live simultaneous video sources in a single call, so that the image from the main camera and PC or document camera can be seen simultaneously.		
	Should support H.239 and BFCP protocols with 1080p resolution.		
Video Output	Should have at least 2 HDMI (High Definition Multimedia Interface) output to connect Full High Definition display devices such as LCD / LED and projectors for both Video and Content. (Dual Monitor Support).		
	It should be possible to display the main video on one HD screen and the presentation / dual video on the other HD screen.		
Video Input	Should have at least Two HDMI/DVI/3G-SDI or combination of these video Input to connect HD camera with full functionalities as mentioned in the camera specifications.		
	Should have DVI/HDMI input to connect PC / Laptop directly to the Video conferencing system and display resolutions of 1920x080 along with PC Audio.		
Audio			
Audio standards supported	G.711, G.722, G.722.1, 64 kbps MPEG-4 AAC-LD or equivalent standard must be supported.		
Other Desirable features	Noise Reduction, Automatic Gain control, Acoustic Echo Canceller, Active Lip synchronization		
Audio Inputs	Should support 2 Wireless Microphone from day one		
	The microphones must be standard based microphones. Minimum voice pickup should be 8 feet radially.		
	The Wireless Microphones shall be supplied with external DSP with AEC. The mics shall have battery backup of 5 hours or more.		
	Echo Cancellation for every input must be available.		
External devices	Should have 2 USB port for future usage.		
Network Interfaces	1 LAN / Ethernet - 10/100/1000 Mbps full duplex		
	Should have support for IPV4 and IPV6		
Bandwidth	IP - at least 6 Mbps		
Network Capabilities	Packet Loss Based Down speeding		
H.323/ IP Features	Differentiated Services(QOS):		

	DiffServ		
	IP adaptive bandwidth management (including flow control)		
	Auto Gatekeeper discovery		
	Auto Network Address Translation(NAT) support		
	Standards based- Packet Loss Recovery feature on H.323 call		
	Support for H.245 DTMF tones in H.323		
SIP Features	The endpoints must support SIP in addition to H323 protocol. Calls can be made on SIP or H323 without having to restart or reconfigure the endpoint.		
	The endpoint must register with any standard SIP server.		
	Must support data sharing capability in SIP calls for dual stream transmit and receive.		
Security			
Encryption of video call	ITU-T standards based Encryption of the video call		
	Call should be encrypted end-to-end on IP		
	Should support Standards-based: H.235 v3 and AES Encryption via Automatic key generation and exchange. The same should be available in a call with Video with presentation (dual video)		
	Ability to manually turn encryption On or OFF should be there.		
	Automatic key generation and exchange		
Camera	1/2.5" HD CMOS		
	Minimum of 12 x optical zoom and 2x Digital Zoom		
	1920 x 1080 pixels progressive @60 fps		
	The Camera and codec shall get operated from single remote		
	Should have at least 72.5 degrees field of view (horizontal).		
Directory services	Should support Local /Global directories		
	Should support LDAP and H.350 protocols for directory transfer.		

3. Laptop for Head Office

Sr. No.	Item	Matched/ Not Matched	Remarks (If any)
Laptop-1 (Intel core i5 Processor Based)			
10	**Processor** – 8th Generation Intel® Core™ i5 Processor (3M Cache, 1.60 GHz) or higher		
	Motherboard with Integrated Chipset with Processor or better		
	8 GB DDR4 @ 1866 MHz upgradeable to 16 GB		
	1 TB GB or higher SATA HDD with 5400 RPM or better		
	Screen: 14" or higher LED B/L Display with 1366 X 768 resolution, contrast ratio: 300:1, Brightness 200 nits		
	Integrated Intel® Graphics Media Accelerator HD or better		
	Wired Communication: Integrated 10/100/1000 Mbps Gigabit Ethernet.		
	Wireless Communication: Integrated Wireless LAN 802.11 b/g/n/ac & Blue tooth		

	Web Cam required		
	Optical Drive: DVD +/- RW (Internal/External)		
	Internal Microphone, Internal Speakers		
	Mandatory Ports: 3 USB (including 1 USB 3.0 port), 1 Head Phone jack & Micro Phone jack / Headphone & Microphone Combo jack, 1 RJ-45, 1 HDMI port		
	Optional Ports: Card Reader		
	Pre-loaded license 64-bit Microsoft Windows 10 Professional Operating System or higher with Latest service pack.		
	Data Recovery Software: Pre loaded software tool that has provision for scheduled backup for restoring OS & data. Should have capability to take backup to external media. (Please specify name of Data Recovery Software)		
	Certifications: RoHS, Latest Energy Star Compliant, BIS		
	3 or more Cell Lithium-Ion/ Lithium-Ion Polymer battery.		
	OEM carry case		
	Weight of the laptop : 2.2 kg or less		

Note:

- **Quoted Laptop brand OEM should be Acer, Dell, HP, Lenovo only.**
- For Laptops, Licensed Antivirus will be given to the successful bidder which should be pre-installed from factory site
- For all types of Laptops, warranty assured by bidders should be reflected on OEMs website/portal (Please upload OEM undertaking letter
- For all types of Laptops, Please upload OEM undertaking letter for Parts which are covered under warranty and Parts which are not covered under warranty with Parts Descriptions

4. USB Based PTZ Camera for all field offices

USB BASED PTZ WEB CAMERAFOR DESKTOP BASED VC SYSTEM			
Sr. No.	**Specification**	**Matched/ Not Matched**	**Remarks (If any)**
1	USB 3.0 and HDMI based PTZ Camera		
2	PTZ with 5X Optical Zoom and 2 X Digital Zoom		
3	84.5 Degrees Field of View with RJ-45 Monitoring Port.		
4	Compliance with USB 3.0 Port, HDMI Port and 3G-SDI Port. All the ports shall work simultaneously.		
5	Full HD 1080p60 fps video format.		
6	3.1 MP or more HD CMOS Sensor with 128 presets. It shall have IP Monitoring of Full HD		
7	Compliant with software for video recording using H.264codec		
8	Compliant with various platforms including Linux, Windows.		
9	Minimum 3 meter USB 3.0 connecting cable.		
10	Shall have at least 3 IR Ids to control multiple cameras from 1 remote.		
11	Shall have RS-232 port for third party control.		
12	Shall have RS-422 Port.		
13	Remote controller to PTZ functions.		
14	Should have atleast 320 degrees PAN Angle and -30 to + 30 Tilt Angle.		

5. Microphone for desktop based VC system for all field offices

Sr. No.	WIRELESS ENABLED SPEAKER CUM MICROPHONE FOR DESKTOP BASED VC SYSTEM		
	Specification	Matched/ Not Matched	Remarks (If any)
1	RF based Wireless device to operate with various platforms including Linux& Windows Operation System		
2	Wireless connectivity with USB based Dongle to be connected to PC/Laptop		
3	Should cover distance of typical distance of 30 feet from the dongle using Wireless connectivity		
4	Built-in Acoustic Echo cancellation >65dB with echo Tail Length of ≥500ms or better		
5	Volume control button for increase and decrease according to local preference		
6	Local Microphone Mute/ Un-mute button with visual indication such as bi- color LED		
7	Wideband Frequency Response for microphone 150 Hz -22 KHz or		
8	Frequency Response for Speaker 100 Hz -322 KHz or better		
9	Speaker Output of 95 dB or better.		
10	Microphone sound pickup of 3 meters or better with 360 degrees.		

Item no. 4: Microphone for desktop based VC system for all field offices is dropped so bidder may quote "0" in that particular line item in financial bid.

NOTE:

- Bidder has to compulsory quote for single OEM make & model of each item. The bid with multiples OEM & Models will be treated as non-compliance & that bid will be liable for rejection for further evaluation.

- The software and hardware should cover 5 Years on-site warranty support for all Component (HW), Supplied including re-loading, re-Configuring of all S/W and Drivers, if required.