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

| Sr. No. | Tender Page No/ item no. | Description | Request to Change / Suggestion/ reason | Final Clarification by GIL/CCT |
|------------|--------------------------------|---|---|--------------------------------|
| 1. | 1 | Software based Video conferencing Solution Feature/Specification | ns: | |
| 2. | 1.1 | Proposed solution should be Client/NonClient (on premises or on cloud base) that connects the participants over secure internet connection. It addition to that it is capable of hosting multiple meetings. | | See changes in Corrigendum |
| 3. | 1.2 | Proposed solution should have facility to pass host controls. | To be removed | See changes in Corrigendum |
| 4. | 1.3 | White boarding, co annotation, recording, editing, chatting, pollin g, document sharing, screen sharing should possible. | Remove Co-annotation, Polling, Editing. | See changes in Corrigendum |
| 5. | 1.4 | Solution should generate Unique meeting ID and should have facility for instant scheduling of meetings. | | |
| 6. | 1.5 | Solution should have mobile user gateway client for Windows des ktop, Android, IOS Mobile devices right from day 1 | Add MacOS. | See changes in Corrigendum |
| 7. | 1.6 | It should support minimum 16 videos in continuous presence. | 20 Videos | See changes in Corrigendum |
| 8. | 1.7 | Solution should have capability to share Data in Multipoint to Mu Itipoint conference through link | | |
| 9. | 1.8 | Solution should support and provide video up to 4k resolution an d content to 1080p with support of (4:3) and wide screen (16:9) c ontent | | |
| 10. | 1.9 | Solution should support minimum 25 users to join and it should g o unto unlimited. | Solution should support minimum 25 numbers 1080p Ports and it should support upto 50 users. | See changes in Corrigendum |
| 11. | 1.1 | System should be 128- bit Fully Encrypted Video Conference Meetings to ensure encrypt ed data flows. | | |
| 12. | 1.11 | Solution should have Lock Conference feature so that once the conference is locked even if someone knows the credentials cannot enter the Video conference secession. | | |
| 13. | 1.12 | The Software based Video conferencing Solution shall include 25 users' licenses for 5 years. | | |
| 14. | 1.13 | The MCU should create multiple rooms so that multiple sessions can happen simultaneously. It should be able to create 5 rooms | Point to be added | See changes in Corrigendum |

| | | of 5 or more users each. It should be able to create 8 rooms of 3 | | |
|-----|------------------------|--|---------------------------------|---------------------|
| | | users or more. It should wok as a true MCU. | | |
| 15. | 2 | High Definition Video Conferencing System 1080p (Minimum Technical Specification) for Head Office at Ahmedabad | | |
| 16. | Features | Specifications | Changes | |
| 17. | System | The VC Unit should be delivered with a codec with an integrated/external camera and one external microphone. The unit should be equipped with a panel for operation, microphone cables, presentation cables, network cables, HDMI Cables and wall mount kit. | | |
| 18. | Video Standards | H.263 / H.264 or better | | |
| 19. | | H.264 in an Encrypted call should be possible | | |
| 20. | | H.264 should be possible when sending or receiving two live video sources e.g. Presenter and Presentation. | Remove this Point | See the Corrigendum |
| 21. | Video Frame Rate | Should support 30 fps or higher (frames per second) with 1080p res olution from day one | Change this to 60 fps or higher | See the Corrigendum |
| 22. | 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. | | |
| 23. | | Should support H.239 and BFCP protocols with 1080p resolution. | | |
| 24. | Video Output | Should have at least 2 HDMI / DVI (High Definition Multimedia Inte rface) output to connect Full High Definition display devices such as LCD / LED and projectors for both Video and Content. (Dual Monit or Support). | | |
| 25. | | It should be possible to display the main video on one HD screen an d the presentation / dual video on the other HD screen. | | |
| 26. | Video Input | Should have at least one HD video Input to connect HD camera wit h full functionalities as mentioned in the camera specifications. Or it should have integrated PTZ Camera | Add the point in Red | See the Corrigendum |
| 27. | | Should have DVI (Digital Video Interface)/HDMI input to connect PC / Laptop directly to the Video conferencing system and display resolutions WXGA/ HD1080p alon g with PC Audio. | upto 1080p | See the Corrigendum |
| 28. | Audio Standards | G.711, G.722, G.722.1, 64 kbps MPEG-4 AAC- LD or equivalent standard must be supported | | |
| 29. | Other desirable | Noise Reduction, Automatic Gain control, Acoustic Echo Canceller, Active Lip synchronization | | |

| | features | | | |
|-----|--------------------------------|--|--|--|
| 30. | Audio Inputs | Should support 2 Microphone from day one | It should be supplied with 2 Wireless Microphones right from Day One. The mics can be from same OEM or third party wireless Mics with DSP can be used. | See the Corrigendum |
| 31. | | The microphones must be standard based microphones. Minimum voice pickup should be 6 feet radially or at least 100 square feet. | 9 feet radially | |
| 32. | | The pickup of the microphones should be at least 100 square feet f rom the microphone. | To be removed as mentioned above | See the Corrigendum |
| 33. | | Echo Cancellation for every input must be available. | | |
| 34. | External Devices | Should have USB port for future usage. | Should have atleast 2 USB Ports | See the Corrigendum |
| 35. | Network Interface | 1 LAN / Ethernet -10/100/1000 Mbps full duplex. | | |
| 36. | | Should have support for IPV4 and IPV6 | | |
| 37. | Bandwidth | IP-Atleast 6 Mbps | | |
| 38. | Netwrok Capabilitie s | Packet Loss Based Down speeding | | |
| 39. | H.323/IP Features | Differentiated Services(QOS): | | |
| 40. | | DiffServ | | |
| 41. | | IP adaptive bandwidth management (including flow control) | | |
| 42. | | Auto Gatekeeper discovery | | |
| 43. | | Auto Network Address Translation(NAT) support | | |
| 44. | | Standards based-Packet Loss Recovery feature on H.323 call | | |
| 45. | | Should support URL Dialing | Remove This Point | See the Corrigendum |
| 46. | | Support for H.245 DTMF tones in H.323 | | |
| 47. | 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. | Remove marked red | No change. As per RFP. (It's a general protocol) |
| 48. | | The endpoint must register with any standard SIP server. | | |
| 49. | | Must support data sharing capability in SIP calls for dual stream transmit and receive. | | |
| 50. | Menu Control | Password protected system menu | Remove this point | See the Corrigendum |
| 51. | Encryption of Video Call | ITU-T standards based Encryption of the video call | | |
| 52. | | Call should be encrypted end-to-end on IP | | |

| 53. | | Should support Standards-based: H.235 v3 and AES | | |
|-----|----------------------|--|---|---|
| | | Encryption via Automatic key generation and exchange. The same s | | |
| 54. | | hould be available in a call with Video with presentation (dual vide o) | Remove this Point | |
| 55. | | Ability to manually turn encryption On or OFF should be there. | Remove this Point | NO Change |
| 56. | | Automatic key generation and exchange | Remove this Point | |
| 57. | Camera | 1/3" CMOS | 1/2.7" CMOS | See the Corrigendum |
| 58. | | Minimum of 10 x optical zoom | Minimum 12X Optical Zoom | See the Corrigendum |
| 59. | | 1920 x 1080 pixels progressive @ 30fps | 1920x1080p@60 fps | See the Corrigendum |
| 60. | | The Camera and codec should be from the same manufacturer. | | |
| 61. | | Should have at least 65 degrees field of view (horizontal) & | 72.5 degrees field of view | See the Corrigendum |
| 62. | | at least 39 degree or more vertical field of view. | 41 degrees vertical field of view | |
| 63. | Directory Service | Should support Local and Global directories | Remove Global | See the Corrigendum |
| 64. | | Should support LDAP and H.350 protocols for directory transfer | | |
| 65. | 4 | USB Based PTZ Web Camera for all field offices | | |
| 66. | 1 | USB based plug-n- | | |
| 00. | 1 | play device to operate with various PCs/ Laptop | | |
| 67. | 2 | Motorized PTZ (Pan, Tilt, Zoom) | PTZ with 5X Optical Zoom and 2X Digital Zoom | See the Corrigendum |
| 68. | 3 | 180 degree PAN, 50 Degrees Tilt and 70 Degree Field View | 83.5 Degrees or more Field of View | See the Corrigendum |
| 69. | 4 | Compliance to USB 2.0 or Better | Compliance to USB 3.0 or better | See the Corrigendum |
| 70. | 5 | Full HD 1080p 30fps video calling (up to 1920 x 1080 pixels) | Full HD 1080p 60 fps | See the Corrigendum |
| 71. | 6 | Thermal stabilized Lens such as Carl Zeiss lens with auto focus/ High Precision Lens for clear picture | High Precision Lens. | See the Corrigendum |
| 72. | 7 | Compliant with software for video recording using H.264 codec | | |
| 73. | 8 | Compliant with various Linux OS including Ubuntu Linux, Windows and MAC OS system | | |
| 74. | 9 | Minimum 5 feet USB connecting cable | Minimum 3 meters USB 3.0 Connecting Cable | See the Corrigendum |
| 75. | 10 | Compliant low lighting environment | Should have Backlight Compensation | See the Corrigendum |
| 76. | 11 | Built-in FD Speaker & sound able to heard from 6-7 feet or more | Remove this point | See the Corrigendum |
| 77. | 12 | Built-in microphones for audio pickup from distance of 6-7 feet or more | Remove this point | See the Corrigendum |
| 78. | 13 | Remote controller to PTZ functions | | |
| 79. | 14 | 10 feet additional USB extension connecting cable | Remove this point as cable already mentioned | See the Corrigendum |
| 80. | 5 | BLUETOOTH / WIRELESS ENABLED SPEAKER CUM MICROPHONE FO | OR DESKTOP BASED VC SYSTEM | |
| 81. | 1 | USB based plug-in-play device to operate with various Linux OS including Ubuntu Linux & Windows Operation System | | Item dropped. The bidder may quote "0" in the financial bid |
| 82. | 2 | Bluetooth / Wireless connectivity with LISB based Dongle to | Should support 2.4 Ghz RF Wireless Connection | of that particular line item. |

| 83. | 3 | Should cover distance of typical distance of 20- | Should work in RF Environment to cover more | |
|------|------------------------|---|--|---------------------|
| | | 25 feet from the dongle using Bluetooth/Wireless connectivity | distance. | |
| 84. | 4 | Built-in Echo cancellation | | |
| 85. | 5 | Volume control button for increase and decrease according to local preference | | |
| 86. | 6 | Local Microphone Mute/ Un- mute button with visual indication such as bi- color LED | | |
| 87. | 7 | Frequency Response for microphone 200 Hz -7 KHz or better | Frequency Response for speakersphone 100 Hz to 16KHz | |
| 88. | 8 | HD Quality speaker output / 220Hz to 14 KHz or better | Remove this point as mentioned above | 1 |
| 89. | 9 | Firmware upgradable through USB | Remove this Point | - |
| 90. | 10 | with 10 feet additional USB extension connecting cable | Remove this Point as it has to be wireless | 1 |
| 91. | 1 | Software based Video conferencing Solution Feature/Specification | ns: | |
| 92. | 1.3 | White boarding, co annotation, recording, editing, chatting, pollin g, document sharing, screen sharing should possible. | Co-annotation, Polling, Editing remove | See the Corrigendum |
| 93. | 1.9 | Solution should support minimum 25 users to join and it should g o unto unlimited. | minimum 25 numbers Full HD Ports and it should support upto 100 users. | See the Corrigendum |
| 94. | 1.13 | It should allow multiple sessions to happen simultaneously. It should be able to create 4 rooms of 6 or more users each. It should be able to create 6 rooms of 4 users or more. It should wok as a true MCU. | | See the Corrigendum |
| 95. | | Kidly Share MCU Specification | Kindly Share MCU Specification | See the Corrigendum |
| 96. | 2 | High Definition Video Conferencing System 1080p (Minimum Tecl at Ahmedabad | nnical Specification) for Head Office | |
| 97. | Features | Specifications | Changes | |
| 98. | Video Frame Rate | Should support 30 fps or higher (frames per second) with 1080p r esolution from day one | 60 FPS or higher | See the Corrigendum |
| 99. | Video Input | Should have at least one HD video Input to connect HD camera wi th full functionalities as mentioned in the camera specifications. Or | Or it should have integrated PTZ Camera | See the Corrigendum |
| 100. | | Should have DVI (Digital Video Interface)/HDMI input to connect PC / Laptop directly to the Video conferencing system and display resolutions WXGA/ HD1080p along with PC Audio. | upto 1080p | See the Corrigendum |
| 101. | | The microphones must be standard based microphones. Minimu m voice pickup should be 6 feet radially or at least 100 square fee t. | 9 feet radially | See the Corrigendum |
| 102. | | The pickup of the microphones should be at least 100 square feet from the microphone. | remove this point | See the Corrigendum |

| 103. | External Devices | Should have USB port for future usage. | Should have atleast 2 USB Ports | |
|------|---------------------|--|--|-------------------------------|
| 104. | | Should support URL Dialing | Remove This Point | See the Corrigendum |
| 105. | | Encryption via Automatic key generation and exchange. The same should be available in a call with Video with presentation (dual video) | | See the Corrigendum |
| 106. | | Automatic key generation and exchange | Remove this Point | |
| 107. | Camera | 1/3" CMOS | 1/2.8" CMOS | See the Corrigendum |
| 108. | | Minimum of 10 x optical zoom | Minimum 12X Optical Zoom | See the Corrigendum |
| 109. | | 1920 x 1080 pixels progressive @ 30fps | 1920x1080p@60 fps | See the Corrigendum |
| 110. | | The Camera and codec should be from the same manufacturer. | | |
| 111. | | Should have at least 65 degrees field of view (horizontal) & | 70 degrees field of view | See the Corrigendum |
| 112. | | at least 39 degree or more vertical field of view. | 41 degrees vertical field of view | |
| 113. | 4 | USB Based PTZ Web Camera for all field offices | , 3 | |
| 114. | 2 | Motorized PTZ (Pan, Tilt, Zoom) | PTZ with 4X Optical Zoom and 2X Digital Zoom | See the Corrigendum |
| 115. | 3 | 180 degree PAN, 50 Degrees Tilt and 70 Degree Field View | 84.5 Degrees or more Field of View | See the Corrigendum |
| 116. | 4 | Compliance to USB 2.0 or Better | | See the Corrigendum |
| 117. | 5 | Full HD 1080p 30fps video calling (up to 1920 x 1080 pixels) | Full HD 1080p 60 fps | See the Corrigendum |
| | 6 | Thermal stabilized Lens such as Carl Zeiss lens with auto focus/ Hi | High Precision Lens. | See the Corrigendum |
| 118. | | gh Precision Lens for clear picture | | |
| 119. | 11 | Built-in FD Speaker & sound able to heard from 6-7 feet or more | Remove this point | See the Corrigendum |
| 120. | 12 | Built-in microphones for audio pickup from distance of 6- 7 feet or more | Remove this point | See the Corrigendum |
| 121. | 5 | BLUETOOTH / WIRELESS ENABLED SPEAKER CUM MICROPHONE F | OR DESKTOP BASED VC SYSTEM | |
| 122. | 2 | Bluetooth / Wireless connectivity with USB based Dongle to be connected to PC/Laptop | Should support 2.4 Ghz RF Wireless Connection | Item dropped. The bidder may |
| | 3 | Should cover distance of typical distance of 20- | Should work in RF Environment to cover more | . ' |
| 123. | 3 | 25 feet from the dongle using Bluetooth/Wireless connectivity | distance. | ar that particular line item. |
| 124. | 7 | Frequency Response for microphone 200 Hz -7 KHz or better | Frequency Response for speakersphone 200 Hz to 16KHz | |
| 125. | 8 | HD Quality speaker output / 220Hz to 14 KHz or better | Remove this point | |
| 126. | 10 | with 10 feet additional USB extension connecting cable | Remove this Point | |
| 127. | 4 | USB Based PTZ Web Camera for all field offices | | |
| 128. | 2 | Motorized PTZ (Pan, Tilt, Zoom) | PTZ with 4X Optical Zoom and 2X Digital Zoom | See the Corrigendum |
| 129. | 3 | 180 degree PAN, 50 Degrees Tilt and 70 Degree Field View | 84.5 Degrees or more Field of View | See the Corrigendum |
| 130. | 4 | Compliance to USB 2.0 or Better | Compliance to USB 3.0 or better | See the Corrigendum |
| 131. | 5 | Full HD 1080p 30fps video calling (up to 1920 x 1080 pixels) | Full HD 1080p 60 fps | See the Corrigendum |
| 132. | 6 | Thermal stabilized Lens such as Carl Zeiss lens with auto focus/ High Precision Lens for clear picture | High Precision Lens. | See the Corrigendum |

| 133. | 11 | Built-in FD Speaker & sound able to heard from 6-7 feet or more | Remove this point | See the Corrigendum |
|------|----|--|--|---|
| 134. | 12 | Built-in microphones for audio pickup from distance of 6-7 feet or more | Remove this point | See the Corrigendum |
| 135. | 5 | BLUETOOTH / WIRELESS ENABLED SPEAKER CUM MICROPHONE FOR DESKTOP BASED VC SYSTEM | | |
| 136. | 2 | Bluetooth / Wireless connectivity with USB based Dongle to be connected to PC/Laptop | • • | Item dropped. The bidder may quote "0" in the financial bid |
| 137. | 3 | Should cover distance of typical distance of 20- 25 feet from the dongle using Bluetooth/Wireless connectivity | Should work in RF Environment to cover more distance. | of that particular line item. |
| 138. | 7 | Frequency Response for microphone 200 Hz -7 KHz or better | Frequency Response for speakers phone 200 Hz to 16KHz | |
| 139. | 8 | HD Quality speaker output / 220Hz to 14 KHz or better | Remove this point | |
| 140. | 10 | with 10 feet additional USB extension connecting cable | Remove this Point | |
| 141. | | 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 | Experience should be asked for: "IT Infrastructure" experience instead of "software based Video Conferencing system" | _ |