| 542 | | RESEARCH IN POLYMERS (SARP)- ARSTPS | | |
|--|--|--|----------------------|--|
| ЧР _ | | | | |
| CIPET सि पे ट puise perfere partie Plate | | | | |
| SUPPI | LY, INSTALLATION, COMMISSIONING & TES | | FY AT HRD BLOCK | |
| | | INICAL BID | | |
| Tender No. | e-TENDER No. CIPET:SARP-ARSTPS/VC/e-Ten-06/2019- | 20 | | |
| Items of Description Supply, Installation, Commissionnig & Testing of Video Conference Facility work at HRD Block, Ground Floor. | | | | |
| Decemption | 1 | Particulars | Remarks | |
| I | Name of the Supplier / Manufacturer | | | |
| II | Postal address | | | |
| III | Telephone No. with STD code | | | |
| IV | Fax with STD code | | | |
| v | Name of Contact person | | | |
| VI | Mobile No. | | | |
| VII | e-mail ID | | | |
| | BELOW GIVEN DOCUMENTS TO BE SCANNED AND UPLOADED IN THE WEBSITE www.tenderwizard.com/CIPET WITHIN THE PERIOD OF SUBMISSION. | | | |
| 1 | Certificates: | | | |
| | i) PAN (Permanent Account Number) Registration | | | |
| | ii) Certificates of Registration for GST. | | | |
| | iii) Authorization certificate from OEM (if not manufacturer) | | | |
| | iv) Turn over details past 3 years (min.50 Lakhs / Per Year) | | | |
| | Commericial Terms for Quoted items (Please Provide Commercial terms and conditions in the below form) | | | |
| 2 | Validity of offer | | | |
| 3 | The Commerical quote should be INR only | | | |
| 4 | Terms of Payments :- 100% payment for actual Supply, Installation, Commissioning & Testing of Video Conference Work and other incidental services at site and submission of acknowledgement and report issued by the Purchaser's representative. | | | |
| 6 | Delivery period (in days) | | | |
| 7 | Guaranty / Warranty(Please Indicate the Period) | | | |
| 8 | Whether All Documents Relating to tender Viewed | | | |
| | TECHNICA | | | |
| S. No | Descriptions | CIPET Specification | BIDDERS SPECIFICATIO | |
| | VIDEO CONFE | | | |
| | Package | HD Codec, HD camera, Omni Directional Microphone, Cables and Wireless Remote Control | | |
| | General | OEM must be present in India and doing video conference business for minimum 10 years | | |
| | | H.323 and SIP Compliant | | |

| 1 | I | | |
|---|--|--|--|
| | Protocols: | H.261, H.263, H.264 AVC, H.264 High Profile, H.264 SVC, RTV. The system should support higher Video | |
| | Image Compression Method/Video standards and protocols | Compression protocols such as H.264 High | |
| | | Profile/H.265 | |
| | | H.263 & H.264 Video error concealment | |
| | Other supported standards | H224/H.281, H.323 Annex Q, H.225, H.245, H.241, | |
| | | H.239, H.243, H.460, BFCP (RFC 4582) & TIP G.711, G.728, G.729A (3.4khz), G.722, G.722.1(7 kHz), | |
| | Audio Cpmpression Method | G.722.1 Annex C (14 kHz) & AAC-LD | |
| | Remote Camera Control | H.281 far end camera control | |
| | Encription | Media Encryption (H.323, SIP): AES-128, AES-256 as | |
| | • | well as H.235.6 support | |
| | Security | It should have 1 x Full HD Camera Interface. | |
| | Video Inputs | It should have another inbuilt 2 x HDMI/DVI/VGA | |
| | | port for PC, Document Camera etc. | |
| | Video Outputs | It should have atleast 2 x HDMI/DVI ports to connect displays. | |
| | | • 1080p, 60 fps from 1740 Kbps | |
| | | • 1080p, 30 fps from 1024 Kbps | |
| | | • 720p, 60 fps from 832 Kbps | |
| | | • 720p, 30 fps from 512 Kbps | |
| | | • 4SIF/4CIF, 60 fps from 512 Kbps | |
| | | • 4SIF/4CIF, 30 fps from 128 Kbps | |
| | People Video Resolution | | |
| | | • SIF (352 x 240), CIF (352 x 288) from 64 kbps | |
| | | • QSIF (176 x 120), QCIF (176 x 144) from 64 kbps | |
| | | • w288p from 128 Kbps | |
| | | • w448 from 384 Kbps | |
| | | • w576p from 512 Kbps | |
| | | Shall work in high definition video resolution of | |
| | Main Video Resolutions | 1080p@60fps for live video for both Transmit and receive. | |
| | | The system should support 1080p@30fpss content | |
| | Content Resolutions | along with 1080p@30fps Main Video Upgradable to | |
| | | support 1080p@30fps | |
| | | 1280 x 1080p CCD/CMOS imager | |
| | | Optical Zoom - 10x or more | |
| | | PAN Range - +/- 100 Degrees | |
| | Camera | TILT Range - +20 Degrees / - 20 Degrees | |
| | | Field of View - 65 Degrees or Higher Horizantal FOV | |
| | | Camera should be supplied with cable of min. 3 mts. | |
| | | Camera should be able to upgrade in future to support | |
| | | automatic speaker tracking and framing of participants from same OEM | |
| | | It should support 4 nos of Powerful High-fidelity | |
| | | Omnidirectional Microphones either directly or | |
| | | through array & One nos of Powerful High-fidelity | |
| | A. dia Tananta | Omnidirectional Microphones should be supplied from day one along with minimum 25 feet cable. | |
| | Audio Inputs | It should have atleast 1 x HDMI port for Audio input | |
| | | | |
| | | It should have additional Audio Input for PC Audio (1 x 3.5 mm stereo line-in) | |
| | | It should have atleast 1 x HDMI port | |
| | Audio Outputs | It should have atleast 1 x 3.5mm/RCA Stereo Line-Out port | |
| | | Should have 100/1000 Mbps auto speed Ethernet port | |
| | N | Should support both IPv4 and IPv6 | |
| | Network | Support Data Rate of 6 Mbps or more on IP (H.323 and | |
| | | SIP) | |
| | | System should have LPR technologies from day one | |

| | | The system should have capability to connect to 5 | |
|---|-----------------------|--|------------------------|
| | Multipoint | more locations @ 720p30, excluding the main | |
| | | location using the inbuit S/W capabilities | |
| | Other Ports | Serial/Ethernet control port for integrating with external control system | |
| | | Should be capable to support Touch Screen Interface directly | |
| | Other Features | Should support QOS (Quality of Service) definitions | |
| | | Global Directory / Centralized directory support | |
| | Power | Should operate on 230v, 50 Hz Power supply | |
| | Operating temperature | Operating temperature: 0 to 40 °C | |
| | | | |
| Ш | SWITCHER | CIPET Specification | BIDDERS SPECIFICATIONS |
| | Video Input & Output | | |
| | Interface | 4 x HDMI Type A Female (Black) | |
| | Video | | |
| | Max Data Rate | 10.2 Gbps (3.4 Gbps Per Lane) | |
| | Max Pixel Clock | 340 MHz | |
| | Compliance | HDMI (3D, 4K, Deep Color) | |
| | | HDCP 1.4 Compatible | |
| | | Consumer Electronics Control (CEC) | |
| | Max Resolution | Up to 4096 x 2160 / 3840 x 2160 @ 60 Hz (4:2:0); 4096 x | |
| | | 2160 / 3840 x 2160 @ 30 Hz (4:4:4) | |
| | Max Distance | Up to 15 m | |
| | | Connector: 1 x DB-9 Female (Black) Baud Rate and | |
| | RS-232 | Protocol: | |
| | | Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, Parity: No, | |
| | USB | Flow Control: No 1 x Micro USB, F/W Upgrade | |
| | | | |
| | | 1 x Mini Stereo Jack Female (Black) | |
| | EDID Settings | EDID Mode: Default / Port1 / Remix | |
| | Power | | |
| | Connectors | 1 x DC Jack (Black) | |
| | Consumption | 5 VDC, 10.58 W | |
| | Environmental | | |
| | Operating Temperature | 0° to 40° C | |
| | Storage Temperature | -20° to 60° C | |
| | Humidity | 0 - 80% RH, Non-Condensing | |

| DE-EMBEDDER | CIPET Specification | BIDDERS SPECIFICATIONS |
|----------------------|---|------------------------|
| Video Input & Output | | |
| Interface | 1 x HDMI Type A Female (Black) | |
| Video | | |
| Max Data Rate | 6.75 Gbps (2.25 Gbps Per Lane) | |
| Max Pixel Clock | 225 MHz | |
| Compliance | HDMI (3D, 4K, Deep Color) | |
| | HDCP 1.4 Compatible | |
| | | |
| Max Resolution | 1920x1080p | |
| Output | 1 HDMI Female, 1xToslink (Black),1xRCA(Orange), | |
| Power | | |

| Connectors | 1 x DC Jack (Black) | |
|-----------------------|----------------------------|--|
| Consumption | 5.3VDC, .8 W | |
| Environmental | | |
| Operating Temperature | 0° to 50° C | |
| Storage Temperature | -20° to 60° C | |
| Humidity | 0 - 80% RH, Non-Condensing | |

| IV | WIRELESS PRESENTER | CIPET Specification | BIDDERS SPECIFICATIONS / |
|----|---|--|---------------------------------|
| | | Windows 7/8/8.1/10 32 & 64 bit macOS | |
| | Operating system | 10.12/10.13/10.14 (Mojave) Android v7; v8 & 8.1 | |
| | | (ClickShare app) iOS 10; 11 &12 (ClickShare app) | |
| | Video outputs | 1x HDMI | |
| | Frame rate | Up to 30 fps | |
| | Output resolution | 1920x1080 | |
| | Noise Level | Fanless | |
| | Number of sources simultaneous on screen | 1 | |
| | Number of simultaneous connections | 8 | |
| | Audio | Via HDMI, analog via Audio Jack 3.5mm | |
| | iPad, iPhone and Android compatibility | Sharing of documents, browser, camera for both Android and iOS devices ClickShare app | |
| | Extended desktop | Available (depending on your operating system). May require ClickShare Extension Pack. | |
| | Authentication protocol | WPA2-PSK in stand alone mode | |
| | Wireless transmission protocol | IEEE 802.11 a/g/n | |
| | Reach | Adjustable with signal strength modulation; max. 30m (100 ft) between ClickShare Button and ClickShare Base Unit | |
| | Frequency band | 2.4 GHZ and 5 GHz (DFS channels not supported) | |
| | | 1x Ethernet LAN 100Mbit | |
| | Connections | 1x (back) + 1x (front) USB | |
| | | Audio analog line out on mini jack socket (3.5mm) | |
| | | Operating: 0°C to +40°C (+32°F to +104°F) | |
| | Temperature range | Max: 35°C (95°F) at 3000m | |
| | | Storage: -20°C to +60°C (-4°F to +140°F) | |
| | Humidity | Storage: 0 to 90% relative humidity, non-condensing Operation: 0 to 85% relative humidity, non-condensing | |
| | Anti-theft system | Kensington lock | |
| | Certifications | FCC/CE | |
| | Warranty | 3 years standard | |
| | Danier and the second se | Operation: 6W (typical) / 18W (max) | |
| | Power consumption | Standby: 2.6W (ECO standby) / 0.4W (Deep standby) | |

| HANDHELD MIC | CIPET Specification | BIDDERS SPECIFICATIONS / |
|---------------------------------|---|---------------------------------|
| Microphone Type | Dynamic (moving coil) | |
| Polar Pattern | Cardioid (unidirectional) | |
| Frequency Response | 60 to 15,000 Hz | |
| | Positive pressure on diaphragm produces positive | |
| Polarity | voltage on pin 2 relative to pin 3 of microphone output | |
| | connector | |
| Output Impedance (at 1000 Hz) | 300 ohms | |
| Sensitivity (at 1000 Hz) | -53 dBV/Pa, (2.2 mV), 1 Pascal=94 dB SPL | |
| Electromagnetic Hum Sensitivity | 26 dB equivalent SPL in a 1 millioersted field (60 Hz) | |
| V Switch | Built-in On/Off switch | |

| Connector | Three-pin professional audio connector (male XLR type) | |
|--------------------------|--|--|
| Case | Die cast metal handle, black matte finish; hardened silver colored, spherical steel mesh grille | |
| Environmental Conditions | This microphone operates over a temperature range of - 29 to 57 degrees Celsius (-20 to 135 degrees Fahrenheit), and at a relative humidity of 0 to 95%. | |
| | Net: 321 g (11.3 oz) | |
| Weight | Packaged: 908 g (2 lb) | |

| VI | COLLAR MIC | CIPET Specification | BIDDERS SPECIFICATIONS / |
|----|--|---|---------------------------------|
| | Туре | Electret Condenser | |
| | Frequency Response | 50 to 20,000 Hz | |
| | Polar Pattern | Unidirectional (Cardioid) | |
| | Output Impedance | 600 Ω | |
| | @ 1 kHz, typical | | |
| | Audio Output Level | -43.5 dBV/Pa | |
| | Signal-To-Noise Ratio ^[1] | 72 dB | |
| | @ 1 kHz | | |
| | Maximum SPL ^[1] | 139.0 dB | |
| | 1000 Ω load, @ 3% THD | | |
| | Dynamic Range ^[1] | 117.0 dB | |
| | @ 1 kHz, 1000 Ω load | | |
| | Equivalent Output Noise ^[1] | 22 dB | |
| | Typical, A-Weighted | | |
| | Power Requirements | +5 V DC (nominal), 10 V maximum (DC bias) | |

| | AMPLIFIER | CIPET Specification | BIDDERS SPECIFICATIONS / |
|-----|-----------------------|--|---------------------------------|
| | Output | 120W @ 4/8 Ohms (1kHz Power, THD+N<0.5%) | |
| | Frequency Response | +/- 1dB (@1W into 4 or 8 Ohms) | |
| | Load Impedance | Stable from 2 - 16 Ohms | |
| VII | Sensitivity | 1.4Vrms | |
| | Signal to Noise Ratio | Greater than 100 dB - 1kHz, A-weighted | |
| | Input Impedance | Balanced 20K Ohms/Unbalanced 10K Ohms | |
| | Max Input | +20dBu Typical | |

| Γ | VIII | CEILING MIC | CIPET Specification | BIDDERS SPECIFICATIONS / |
|---|------|-------------|---|---------------------------------|
| | | | 360-degree directional pickup | |
| | | | Three cardioid elements per microphone – elements spaced 120 degrees apart | |
| | | | Each Ceiling Microphone Array covers a 24' diameter | |
| | | | Total coverage area for a single Ceiling Microphone Array is 400 square feet | |
| | | | Dynamic microphone steering | |

| | Full-duplex digital audio | |
|--|--------------------------------------|--|
| | Instant adaptation echo cancellation | |
| | Automatic noise suppression (ANS) | |
| | Automatic gain control (ACG | |

| IX | DSP | CIPET Specification | BIDDERS SPECIFICATIONS / |
|----|---|--|---------------------------------|
| | Full stereo Acoustic Echo Cancellation | Eliminates echoes while maintaining full stereo | |
| | | separation with remarkable clarity | |
| | | Completely transparent echo canceller experience | |
| | (AEC) to 22 kHz | even during doubletalk with multiple independent audio | |
| | | sources | |
| | Immersive audio experience | Stereo separation makes it possible to be "in the | |
| | | middle" of the audio and understand where remote | |
| | | participants are seated | |
| | | Provides additional flexibility and smoother transitions | |
| | Powerful gain sharing automixer | to ensure robust performance in a variety of operating | |
| | | environments | |
| | | Compensates for level variation on telco and video | |
| | Dynamics processing | calls to improve system sound in even the most | |
| | | acoustically challenging environments | |
| | Unrivaled noise cancellation technology | Eliminates background noise, even in extremely | |
| | | challenging rooms | |
| | Comfort noise | Background noise fill used for more natural sounding | |
| | | conferencing | |
| | | | |
| | Analog gain control | Adjusts input gains in the analog domain to maximize | |
| | | signal-to-noise ratio and eliminate background hiss | |
| | Fast, responsive Automatic Gain Control (AGC) | Seamless gain adjustments are transparent to | |
| | | participants | |
| | | | |
| | Modular telephony slot | Configurable telephony options for added flexibility | |
| | | and investment protection for future technology | |
| | - | | |
| | Input & Output Slots | 12 inputs/12 outputs slots | |
| | Inegration | Digital integration with VC | |