

Sub: Request for Quotation for Supply, Installation and Maintenance of Video conferencing system for Indian Bank Zonal Office, Upper Ground Floor, World Trade Centre, New Delhi. Tender Reference No. IB/ND/VC/2016-17 Dated 21.06.2016

Annexure I of Notice - 2 : Clarifications of pre-bid queries received from bidders						
No	RFP Page No.	RFP Point No.	RFP Clause	Query / Modification Requested	Bank's response	
1	7	1	Video Conferencing Main Systems	<p>Request the Bank to revise the specification as: Video Conferencing Main Systems:-1080p60 video and content collaboration , 4 X Mics (VC omnidirectional HD MICS), Camera should be 12X zoom 1080p 60 fps, Interoperable SVC,support- 8-way multipoint, Video Standards and Protocols-H.261, H.263, H.264 AVC, H.264 High ,Profile, H.264 SVC*, RTV, H.239 ,H.263 & H.264 Video error concealment. Video Input-2 x camera input,3 x HDMI 1.4 ,1 x YPbP,1 x VGA Video Out-3 x HDMI 1.3,3 x VGA- third monitor allow recording ,Other Interface -2 x USB 3.0 (back), 1 x USB 2.0 (front) ,1 x RS-232 DB9. Make-Polycom/Cisco It should be able to register on the existing Gate Kepr available at Indian Bank Head Quarter Chennai & Seamlessly work with the existing infrastructure setup at Bank. While transmitting both Cameras should be able to transmit & Receive 1080p 60fps at same time</p> <p>Request the Bank to revise the specification as: The package shall have (at a minimum): Videoconferencing Codec (6Mbps point-to-point, 1080p @ 60fps), Wireless Remote Control, HD Pan-Tilt-Zoom (PTZ) camera with same OEM-make cables (1080p @ 60fps, Min. 12x optical zoom), Min. 3 sites using in-built multi-site endpoint feature with each site at 720p resolution, LAN cable Power Supply (with cables), 1 x Microphones with OEM-make cables (1 cable of min. 7.5m), VGA Audio Cable (20 Mtr), HDMI Cable (20 Mtr) (Make: Extron / Kramer). VGA Audio Connectivity plate. Other cables/connectors, etc. fps = frames per second, Bandwidth. H.323/SIP (up to 6Mbps point-to-point). Video Standards: H.263, H.264, Firewall Traversal, H.460.18, H.460.19 Firewall Traversal. Video Features: Native 16:9 Widescreen, Advanced Screen Layouts, Intelligent Video Management, Local Auto Layout, Camera (1080p @ 60fps PTZ). 1/3" CMOS/CCD, 1 Compatible Camera with Min. 10x optical zoom, +15°/-25° tilt, +/- 90° pan, 39° vertical field of view or better, 65° horizontal field of view or better. Focus distance 0.3m–infinity, 1920 x 1080 pixels progressive @ 60fps, Automatic or manual focus/brightness/white balance. Far-end camera control, The camera and codec should be from the same manufacturer. Make: Cisco / Polycom.</p>	Covered	by amendment Corrigendum.
2	8	2	SD PTZ Color Video	<p>Request the Bank to revise the specification as: HD PTZ Video Camera for Covering the Other people picture:-12 X Zoom, 1080p 60fps frame rate should</p>	Covered	by amendment

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			Camera for Covering the Other people picture.	<p>be supported, the Video conferencing and Camera should be of same make. Polycom , Cisco</p> <p>No requirement of Additional camera of other make. If required additional camera should of same OEM make of VC</p> <p>This item may be removed</p>	Corrigendum.
3	9	3	Hydraulic Pop Up Box on Conference Table. Quantity: 21	<p>Request the Bank to revise the specification as: SITC of Pop Up Box with box Inbuilt Port 1 VGA ,1 audio,1HDMI,1 LAN& 1 power point optional USB port. Make- Magnum/Eisconnect/Extron. Quantity: 5</p> <p>Request the Bank to revise the specification as: Cable Cubby: VIDEO INPUT/OUTPUT: Number/signal type 1 pass-through VGA. 1 pass-through HDMI, Connectors 15-pin HD female to 15-pin HD female on a 6" (15 cm) pigtail. HDMI female to HDMI female on a 10" (25 cm) pigtail. AUDIO INPUT/OUTPUT: Number/signal type 1 pass-through stereo, unbalanced Connectors 3.5 mm TRS jack to 3.5 mm 3 pole captive screw connector on a 10" (25 cm) pigtail. DATA INPUT/OUTPUT: Standards CAT 6, TIA/EIA T568B Connectors 1 female RJ-45 to 1 female RJ-45. POWER: HSA 300 (US) 125 VAC, 50-60 Hz, 12 A max.HSA 300 (EU/Multi-Region/UK) 240 VAC, 50-60 Hz, 10 A max. USB power: Power supply External, Input: 100-240 VAC, 50-60 Hz. Output: 12 VDC, 1 A. Power output USB: 5 VDC, 2.1 A, 10.5 watts total. Make: Extron / Crestron/ AKG. Quantity: 4.</p> <p>We recommend BESTNET make. Quantity may be reduced to 5.</p> <p>Since there are 21 pop up box please clarify regarding the number of HDMI and VGA + Audio connectivity.</p>	Covered by amendment Corrigendum.
4	9	4	HDMI Switcher 4 in 4 out for laptop source	<p>Request the Bank to revise the specification as: The unit is controlled through a front panel source selection switches with provision for RS232C & contact Closure. It can also be controlled through IR remote Control, RF remote control or also through remote IP address. The unit also senses which input has the signal and switch the TV to that source automatically in auto mode. The resolution that the splitter supports are 720i, 720P, 1080i, & 1080P. Units are compatible with any of the controllers available in market. Make: Milestone</p> <p>Request the Bank to revise the specification as: 8x4 HDMI switcher, Resolution range Up to 1080p (HDTV) or 1920x1200 (the highest resolution of the single-link DVI standard) @ 60 Hz, Maximum data rate 6.75 Gbps (2.25 Gbps per color), Maximum pixel clock 165 MHz, Standards DVI 1.0, HDMI 1.3, Switching</p>	Covered by amendment Corrigendum.

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				<p>speed 200 ns, max. Video input: Number/signal type - 8 digital RGB (TMDS) HDMI (or single-link DVI-D*), Connectors - 8 female HDMI type A (digital only), Nominal level, Digital video 1.2 Vp-p, DDC (Display Data Channel) 5.0 Vp-p (TTL), Minimum/maximum level 0.5 V to 1.0 Vp-p with no offset, Impedance 100 ohms, Return loss <-15 dB @ 1 MHz to 1.5 GHz, TDR rise time (10%-90%) 75 ps, Equalization Automatic. Video output: Number/signal type - 8 digital RGB, Connectors - 8 female HDMI type A, Nominal level 1.2 Vp-p, Minimum/maximum level(s) 0.5 V to 1.0 Vp-p with no offset (follows input), Impedance 100 ohms, Return loss <-15 dB @ 1 MHz to 1.5 GHz, DC offset ±500 mV maximum with input at 0 offset, Rise and fall time (20-80%) 0.6 ns, Re-clocking Automatic, Peripheral device power 250 mA per output. Make: Extron / Crestron / Steel case.</p> <p>Request the Bank to revise the specification as: HDTV Compatible. ,HDCP Compliant. Video Inputs-10 HDMI & 2 computer graphics video on 15-pin HD connectors. Scaled Outputs-2 HDMI,22 Output Resolutions-Up to WUXGA/1080p,Auto Input Scanning and Switching,Color Sampling-Supports 4:4:4 (RGB and YUV) as well as 4:4:2 (YUV) color sampling,Audio Outputs-1 S/PDIF on an RCA connector, 1 balanced stereo audio on a terminal block, embedded audio on the HDMI outputs. Make- Kramer/Extron/Crestron</p> <p>As there is only one 4 X4 HDMI switcher, what will be connectivity switching interface for VGA + Audio, we need to increase the switcher input & output port please confirm.</p>	
5	9	5	Adopter HDMI to Phono Stereo/3RCA with cable	<p>Not Required</p> <p>Adapter not required</p>	Covered by amendment Corrigendum.
6	9	6	Motorized Screen	<p>Request the Bank to revise the specification as Motorised Screen: Resolution: 16:10, Matt White, Diagonal size: 109". Make: Draper, Inc./ Liberty/ DST.</p> <p>We considered the proposed design for big board room please clarify the number of seats, and for video conferencing we strongly suggest to go ahead with one LARGE FLAT PANEL Display rather than projection screen, please clarify the same.</p> <p>Request the Bank to revise the specification as: Size:6 ft X 4ft , Width 6ft & Height 4ft, diagonal 84", High Contrast Matte White,Video Spectra 1.5,Remote range up to 40mtrs. Make- GTC SHOW</p>	Covered by amendment Corrigendum. No. of Seats: 21.

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				Request the Bank to revise the specification as: Diagonal 100" Screen High Contrast, Matte White, low noise Moter with RF remote. Make- Draper/De-lite	
7	9	7	Ceiling Mount Kit for Projector	Request the Bank to revise the specification as: Standard Duty Ceiling Mount Bracket (Upto 5 Kg Projector). Make: Chief/STD	Covered by amendment Corrigendum.
8	9	8	Multimedia Projector 5200 ANSI or more	Request the Bank to revise the specification as: 4000 Lumens, Native Resolution-XGA (1024 x 768) 786,432 pixels, Contrast Ratio-1400:1,Light Source-Laser & LED Hybrid, Estimated Light Source Life-Up to 20,000 Hours. Make- CASIO/Panasonic/Epson. We recommend SONY make Request the Bank to revise the specification as: Projector 4000lm WXGA, Resolution: WXGA, Lumens: 4000, Connectivity: HDMI 19-pin x 1 (compatible with HDCP, Deep Color), audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz), COMPUTER 1 IN - D-sub HD 15-pin (female) x 1 (RGB/YPBPR/YCBCR), COMPUTER 2 IN /MONITOR OUT - D-sub HD 15-pin (female) x 1 (RGB), D-sub HD 15-pin (female) x 1 (RGB), (input/output selectable using on-screen menu), VIDEO IN Pin jack x 1 (Composite VIDEO), S-VIDEO IN Mini DIN 4-pin x 1 (S-VIDEO), AUDIO IN 1 M3 x 1 (L-R x 1), AUDIO IN 2 (MIC IN) M3 x 1 (L-R x 1) for audio input or for microphone connection (variable), AUDIO IN 3 Pin jack x 2 (L, R x 1), AUDIO OUT M3 x 1 (L-R x 1) for output (variable), LAN RJ-45 x 1 (for network connection, 10BASE-T/100BASE-TX, compliant with PLink™), SERIAL IN D-sub 9-pin (female) x 1 for external control (RS-232C compliant). Make: Panasonic / Casio / NEC	Covered by amendment Corrigendum.
9	9	9	P/F LED TV 32" OF SONY MAKE with Motorized Lift	Request the Bank to revise the specification as: Edge LED Large Screen 84", (ULTRAHD) 3,840 X 2,160 (ULTRAHD),Dynamic CR : 500,000 : 1,Smart Energy Saving,Digital Minimum input-HDMI(1), DVI-D(1), Display Port(1) with HDCP ,Analog RGB(1), Audio Control RS232C(1), RJ45(1), IR(1, Internal),USB USB 2.0 (1) Make- LG/Samsung/ Panasonic. Request the Bank to revise the specification as: 84" Led display, 84" 350 nits, 3,840 x 2,160 Ultra HD Resolution. Input: HDMI(2), DVI-D(1), Display Port(1) with HDCP for all input, Composite(1), RGB(1), RGB, DVI-D, AV, RS232C(1), RJ45(1), IR(1, Internal), USB 2.0(2), Output: DVI-D(1), RGB(1), Yes(1), Line out(1), RS232C(1), IR(1, Internal). Make: LG /Panasonic/ Samsung / Sony. Request the Bank to revise the specification as: 4k LED TV 164cm or 65"	Covered by amendment Corrigendum.

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				Diagonal with 4k resolution (3840x2160) 4 times of FHD, 3D active require Sony 3d glass View angle H/V 178/178°, Aspect ratio 16:9 , wireless feature inbuilt for media sharing , interface 4HDMI , 2C-Video, 1Component ,3USB, RJ45, Audio out , speaker out 30W. Make: Sony.	
10	9	1	Boundary Layer Microphone with on/off. Quantity : 20	Request the Bank to revise the specification as: Cartridge Type- Electret Condenser, Frequency Response-50–17000 Hz, Polar Pattern-Cardioid, Output Impedance-180 Ω, Common Mode Rejection-10 Hz to 100 kHz, Maximum SPL-119, Signal-to-Noise Ratio-71db, Mute Switch-50–20000 Hz–50 dB minimum. Make- SHURE / Beyerdynmic/AKG. We recommend SHURE make Make may be revised as BSS/SHURE/AKG	Covered by amendment Corrigendum.
11	10	2	Chairman (19 inch.) Microphone with on/off Base	We recommend SHURE make We propose the same specification for Boundary Layer Microphone and Chairman Microphone. We propose the same specification for Boundary Layer Microphone and Chairman Microphone.	Covered by amendment Corrigendum.
12	10	3	Automatic Mixer / DSP	We recommend SHURE make Make may be revised as SHURE / BSS/ Biamp Request the Bank to revise the specification as: Multichannel DSP (12 analog inputs , 8 analog outputs), 12 Analog Inputs (with 48v Phantom Power per Channel), 8 Analog Outputs, Configurable Signal Processing, Rich Palette of Processing and Logic Objects, 48 Channel, Low Latency, Fault Tolerant Digital Audio Bus, Clear Front Panel LED Indication, Bi-Directional Locate Functionality, 12 Control Inputs and 6 Logic Outputs for GPIO Integration, Soundweb London Interface Kit for Third Party Control System Integration (Documentation), HiQnet Device, Configuration, Control and Monitoring from HiQnet London Architect. Make: BSS/SHURE/AKG	Covered by amendment Corrigendum.
13	10	4	Ceiling speaker	We recommend QUEST make and quantity may be reduce from 8 to 6. Request the Bank to revise the specification as: Ceiling speakers System: Freq. Range (-10 dB)1: 80 Hz - 20 kHz, Power Capacity2: 80 Watts Continuous Program Power, 40 Watts Continuous Pink Noise, Nominal Sensitivity3: 86 dB SPL @ 1 m (3.3 ft), Nominal Coverage Angle4: 130° conical coverage,	Covered by amendment Corrigendum.

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				Directivity Factor (Q): 2.4 averaged 500 Hz to 4 kHz, Directivity Index (DI): 3.8 averaged 500 Hz to 4 kHz, Rated Maximum SPL: 102 dB @ 1 m (3.3 ft), Nominal Impedance (24C): 16 ohms (Min Z 16.1 Ω @ 320 Hz), Transformer Taps (24CT): 070V: 30W, 15W, 7.5W & 3.7W taps, 100V: 30W, 15W, & 7.5W taps, Transducers: Low-Frequency: 100 mm (4.0 in) Polypropylene-coated, 1" coil on aluminum former, High-Frequency: 19 mm (0.75 in) Titanium coated polyester. Make: JBL / Shure / AKG.	
				Request the Bank to revise the specification as: Ceiling speaker -Power Output- 20W,Overall Dia up to 4",Line Voltage 70V/100V with Transformer Taps: 6 W, 3 W, 1.5 W, Coverage: 130°, Conical, Frequency Range (-10 dB): 60 Hz – 18 kHz, Sensitivity (2.83V@ 1m): 93 dB. Make- JBL / BOSE / BOSCH/Extron.	
14	11	5	Amplifier	We recommend QUEST make Request the Bank to revise the specification as: Amplifier: 75 watts x8 channel amplifier@ 8 ohm ,Sensitivity-1.4 V, Signal to Noise Ratio-110 dB, THD (full rated power, 20 Hz - 20 kHz)-< 0.05%,Frequency Response (at 1W, 4/8 ohms)- +/- 0.5 dB,Voltage Gain-25 Db. Make- CROWN / BOSE / BOSCH/Extron. Request the Bank to revise the specification as: Amplifier, Sensitivity 1.4Vrms, Frequency Response +0dB, -1dB, Signal to Noise >103dB (at .775Vrms, 6dB lower), Intermodulation Distortion < 0.3%, Damping Factor > 200, THD < 0.5%, Crosstalk At 1kHz: > 85dB, At 20kHz: > 55dB. Make: JBL/Shure/ AKG. Quantity: 2.	Covered by amendment Corrigendum.
15	11	6	Voice Recorder	Request the Bank to revise the specification as: Capture HD footage , Works without PC, Pause & resume recording, take snap shot while recording , zero delay while pass through the video, Recording through USB & HDD, Input HDMI, Component video & audio L/R, 3.5 Audio, Microphone, Output HDMI, Headphone, 3,5mm audio, Internal HDD 2,5". Make- AVERMEDIA Request the Bank to revise the specification as: Recording on External HD 2TB, Interface Balanced & Unbalanced,19" Rack mountable, Format Support MP3, Data Transfer through USB to Computer, Power on auto play, Input sensitivity 500mvrms, Input impedance 75Ω, USB Connection to PC for fast secure download to read LCD display, Dictation/Conference/Lecutre Recording Facility, Max SD Card 32 GB. Make:-Avermedia/NT/VISTOR.	Covered by amendment Corrigendum.
16	11	7	Speaker Cable	We recommend CHETAN make	Covered by

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				Request the Bank to revise the specification as: 2 core of high quality with minimum data loss, Make- ASTRONICS/Kramer/Extron/Falcon.	amendment Corrigendum.
				Request the Bank to revise the specification as: 14 AWG Speaker Cable- Plenum rated. Extron/ Kramer	
17	11	8	Microphone Cable	We recommend CHETAN make Microphone cable :-2 core shield of high quality with minimum data loss, Make- ASTRONICS/Kramer/Extron/Falcon	Covered by amendment Corrigendum.
18	11	9	Bulk Connectors for complete systems	We recommend Neutrik make We recommend Branded bulk cables and connectors of Extron/ Kramer makes We propose custom make In cable & connectors only HDMI connectivity is considered, please confirm whether we have to consider VGA+ Audio connectivity or not	Covered by amendment Corrigendum.
19	12	10	Equipment Rack	We recommend Extron make. We recommend Valrack/Presenet/AVC makes We recommend Valrack /Pesident makes	Covered by amendment Corrigendum.
20	12	11	HDMI Cable 15 Mtr Make- BESTNET / KRAMER/MILESTONE	Request the Bank to revise the specification as: HDMI Cable 15 Mtr with 24 AWG. Make-Kramer/Extron/AMX/Falcom	Covered by amendment Corrigendum.
21	12	12	HDMI 3 Mtrs Make- BESTNET / KRAMER/MILESTONE	Request the Bank to revise the specification as: HDMI Cable 15 Mtr with 28 AWG. Make-Kramer/Extron/AMX/Falcon	Covered by amendment Corrigendum.
22			New Item	We suggest the following additional item to transmit the signal of HDMI from popup box to source: HDMI Twisted Pair Transmitter: VIDEO Maximum data rate 10.2 Gbps (3.4 Gbps per color) Resolution range Up to 2560x1600* @ 60 Hz or Color bit depth 8, 10, or 12 bits — subject to the maximum data rate limit VIDEO INPUT — TRANSMITTER Connectors 1 female HDMI type A. Make: Extron / Crestron/ AKG	Please adhere to the terms of the tender.

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23			New Item	We suggest the following additional item to receive the signal of transmitted signal from popup box: HDMI Twisted Pair Receiver Maximum data rate 10.2 Gbps (3.4 Gbps per color) Maximum pixel clock 300 MHz Resolution range Up to 2560x1600* @ 60 Hz or 4K (4096x2160) @ 30 Hz, UHD (3840x2160) @ 30 Hz, 4K/UHD @ 60 Hz with 4:2:0 chroma subsampling (* reduced blanking) Color bit depth 8, 10, or 12 bits — subject to the maximum data rate limit Formats RGB and YCbCr digital video Standards DVI 1.0, HDMI 1.4, HDCP 2.2, CEA-861E. Make: Extron / Crestron/ AKG	Please adhere to the terms of the tender.
24			New Item	HDMI Auto switcher is required to capture and scale the VGA input to HD output VGA Input -> HDMI auto switcher -> HDMI 8X4 Switcher -> Source VGA HDMI Auto Switcher INPUTS 1 PC/HD (RGBHV/YPbPr) on a 15-pin HD connector 1 HDMI connector 2 unbalanced stereo audio connectors on 3.5mm mini jacks OUTPUTS 1 PC (RGBHV) on a 15-pin HD connector 1 HDMI connector 1 unbalanced stereo audio connector on a 3.5mm mini jack OUTPUT REFRESH RATE 60Hz for computer graphics resolutions 50/60Hz for HDTV resolutions VIDEO LATENCY Progressive input: 30ms (approx.) interlaced input: 50ms (approx.)	Please adhere to the terms of the tender.
25			New Item	Audio De-embedder VIDEO: Maximum data rate 6.75 Gbps (2.25 Gbps per color), Maximum pixel clock 225 MHz, Resolution range Up to 1920x1200 or 1080p @ 60 Hz, 12-bit color, VIDEO INPUT: Number/signal type 1 single link HDMI, Equalization Automatic for up to -12 dB of cable loss, Input cable length Up to 25' (7.6 m)	Please adhere to the terms of the tender.

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				VIDEO OUTPUT: Number/signal type 1 single link HDMI, Output cable length Up to 15' (5 m). AUDIO INPUT: Number/signal type 1, combined with HDMI video input. Source formats PCM, Dolby Digital 2/0, Dolby Digital 2/0 Surround, Dolby Digital 5.1, Dolby Digital EX, DTS Digital Surround 5.1, DTSES Matrix 6.1, DTS-ES Discrete 6.1. AUDIO OUTPUT: Number/signal type 1 combined with HDMI video output and either, 1 stereo balanced/unbalanced or 1 S/PDIF, Connectors (1) 3.5 mm captive screw connector, 5 pole, 1 female RCA jack (tip, ring). CONTROL/REMOTE: USB control ports 1 front panel female mini USB B USB standards USB 2.0, low speed. Make Extron / Crestron	
26			New Item	Line array column speaker is for the VC. To bring the quality sound and experience during VC. Components: Eight 50 mm (2 in) Full-Range, Frequency Range (-10 dB)1: 80 Hz – 20 kHz, Coverage Pattern: Vertical 20° (1.5 kHz - 16 kHz, ±10°), Horizontal 150° (ave, 1 kHz – 4 kHz, ±20°), Sensitivity (2.83V@ 1m)1: 93 dB (speech mode, 2 kHz - 14 kHz), 89 dB (music mode, 300 Hz - 18 kHz) Nominal Impedance: 8 ohms, Power Capacity 150W (600W peak), 2 hrs (8 ohm setting)2: 100 W (400W peak), 100 hrs, Max SPL3: Speech mode: 115 dB cont ave (121 peak). Music mode: 111 dB cont ave (117 peak), 70V/100V Transformer Taps: 60W, 30W, 15W, (7.5W at 70V only), and 8 thru, via switch Enclosure: Fiberglass reinforced ABS cabinet, painted aluminum grille Outdoor Capability: IP-54 rated, per IEC529. UV, moisture and salt-spray resistant, Colors: Black or White (-WH) (Make: JBL / Bose / Extron)	Please adhere to the terms of the tender.