

# **E-TENDER**

FOR

**Procurement of Video Conference  
Solution for Export-Import Bank of  
India, Kidwai Nagar, New Delhi Office.**

**Tender Reference No: IT/EXIM/RFP/2018-19/018**

Phone: 022-22172410

E-Mail: [dharmendra@eximbankindia.in](mailto:dharmendra@eximbankindia.in)

**EXPORT-IMPORT BANK INDIA**  
Center One Building, 21<sup>st</sup> Floor,  
World Trade Centre Complex, Cuffe Parade,  
Mumbai – 400 005.  
Phone: 022-22172600, 2410  
E-Mail: [dharmendra@eximbankindia.in](mailto:dharmendra@eximbankindia.in)

<b>TENDER DOCUMENTS FOR</b>	<b>Procurement of Video Conference Solution for Export-Import Bank of India, Kidwai Nagar, New Delhi Office.</b>
<b>TENDER DOCUMENT COST</b>	₹ 3,000/-
<b>Last date for acceptance of Tender Document fee and EMD Amount DD</b>	September 19, 2018 16.00 Hrs.
<b>EMD Amount</b>	₹ 5,00,000/-
<b>Date of Online Notice</b>	September 04, 2018
<b>Document Downloading Start Date</b>	September 04, 2018, 11.30 Hrs.
<b>Pre Bid Meeting date</b>	September 17, 2018 Time : 11:00 am to 5:00 pm
<b>Pre Bid Meeting Location</b>	Export-Import Bank of India, Center One Building, 21st Floor, World Trade Centre Complex, Cuffe Parade, Mumbai – 400 005
<b>Document Downloading END Date</b>	September 25, 2018, 12.00 Hrs.
<b>Last Date and Time For Submission</b>	September 25, 2018 , 15.00 Hrs.
<b>Opening Of Tender</b>	September 25, 2018, 17.00 Hrs. Only Technically Qualified Bids will be eligible for opening of Financial Bids.
<b>Place of Receipt of Tender</b>	<a href="https://eximbankindiatenders.procuretiger.com">https://eximbankindiatenders.procuretiger.com</a>

**e-Tendering / Electronic Tendering / Web Tendering / Online Tendering** is the simulation of the manual tendering process on the internet. i.e., the eligible bidders / tenders can log on to the internet site specified using a unique user name & password and place their Technical & Commercial bids. The eligible bidders will be trained by M/s e Procurement Technologies Ltd. (Abc Procure) personnel on the methodology of submitting the bids online using a special digital signature/electronic key / password at the date and time specified. The bids placed by the tenderers are confidential and will be opened by the authorized EXIM Bank officials. No other person can gain access to the information regarding the bids, which is confidential in nature.

### **MINIMUM REQUIREMENTS:**

1. Computer/Laptop with internet connection
2. Operating system – Windows XP Service pack -3 / VISTA/ WINDOWS 7
3. Digital certificate -Class II or III, Signing + Encryption, and it should be organizational certificate.

### **CONTACT INFORMATION FOR E-TENDER PROCESS**

Vendor registration can be done online by opening Website:

<https://eximbankindiatenders.procuretiger.com>

Click on “New Bidder Registration” link, create User Id and Password and attach your Digital certificate. For any clarification kindly contact

**e-Procurement Technologies Limited**

**A- 801 – Wall Street - II,**

**Opposite Orient Club,**

**Nr. Gujarat College, Ellis Bridge,**

**Ahmedabad – 380 006.**

**Gujarat State, India**

**Phone: +91 (79)-40270566/567/579/580/582/590**

**Fax: +91 (79) 40230847**

### **E-Tendering Process Compliance Statement**

The following terms and conditions are deemed as accepted by you for participation in the bid event:

1. The price once submitted cannot be changed.
2. Technical and other non-commercial queries (not impacting price) can be routed to the respective contact personnel of EXIM Bank indicated in the tender document. Bidding process related queries could be addressed to M/s e Procurement Technologies Ltd personnel indicated in the tender document.
3. Inability to bid due to telephone line glitch, Internet response issues, software or hardware hangs will not be the responsibility of M/s e Procurement Technologies Ltd or the EXIM Bank. However, M/s e Procurement Technologies Ltd, shall make every effort to ensure availability of technology resources to enable continuous bidding.
4. M/s e Procurement Technologies Ltd does not take responsibility beyond the bid event. Order finalization and post order activities would be transacted directly between bidder and the EXIM bank.
5. Bids once made cannot be withdrawn or modified under any circumstances.
6. EXIM Bank can decide to extend or reschedule or cancel an e-tendering.
7. The bidders are advised to visit <https://eximbankindiatenders.procuretiger.com> for any corrigendum etc.

I / We have read, understood and agree to abide by the e-tendering process compliance statement.

Date :

Organization Name :

Name :

Designation :

Seal and Signature of the Bidder/s not required since the document is Digitally Signed.

## CONTENTS

Sr. No	Title
01	Quotation Bid Notice
02	Eligibility Criteria
03	Mandatory Information
A	Information Required For Prequalification of the Tenderer
04	Tender Form
05	Instruction to Tenderers
07	Appendix Showing Important Schedule

## **QUOTATION BID NOTICE**

1. Export-Import Bank of India (EXIM Bank), a corporation established under the Act Export-Import Bank of India, 1981 and having its registered office at 21st Floor, World Trade Centre Complex, Cuffe Parade, Mumbai 400 005 **invites bids from eligible bidders for the supply and installation of Video Conference Solution at Exim Bank, Kidwai Nagar Office, New Delhi as per RFP Bill Of Material (BOM).**
2. The mode of tendering is through e-Tendering. E-Tendering is the process by which the physical tendering activity is carried out using internet and associated technologies in a faster and secure environment.
3. Vendor registration can be done online by opening Website:  
<https://eximbankindiatenders.procuretiger.com> Click on “New Bidder Registration” link, create User Id and Password and attach your Digital certificate.
4. Tender document will be allowed for download from above web site after successful vendor registration (hard copies of the tender document will not be provided) and submission of tender document cost.
5. **CONTACT INFORMATION FOR E-TENDER PROCESS**  
  
e-Procurement Technologies Limited  
A- 801 – Wall Street - II,  
Opposite Orient Club,  
Nr. Gujarat College, Ellis Bridge,  
Ahmedabad – 380 006.  
Gujarat State, India  
  
Phone: +91 (79)-40270566/567/579/580/582/590  
Fax: +91 (79) 40230847
6. EXIM Bank reserves the right to accept or reject in part or full any or all the offers without assigning any reasons there for.

## ELIGIBILITY CRITERIA

S.NO.	Eligibility Criteria	Documents to be Submitted
1.	Bidder must be authorized by OEM to quote for this tender requirement to ensure OEM Support after sales to EXIM Bank. Only Cisco/Polycom, ClearOne and Extron Authorized Partners are eligible to participate in this tender.	Cisco/Polycom, ClearOne, and Extron, Manufacturers Authorization Form (MAF) with Tender Reference number to be submitted
2.	The Bidder must deliver, configure and handover of all equipment within 10 Weeks from date of Purchase Order date. The Bank will charge penalty as 1% of the order value on per day basis for late delivery and installation.	Signed Consent on company letter head to be submitted.
3.	The Product quoted unit price validity should be 60 days from tender opening date. As per Bank requirement, repeat order with same terms and conditions will be applicable within 60 days from tender opening date.	Signed Consent on company letter head to be submitted.
4.	The Bidder must have onsite technical support facility at New Delhi to address the technical issues within 4 hours at Exim Bank, Kidwai Nagar, New Delhi Office.	New Delhi Support Center/Office address proof to be submitted.
5.	The bidder must have GST registration number.	GST Provisional certificate to be uploaded.
6.	The bidder must have minimum turn over for the FY 2016-17 / 2017-18 of 20 Crores.	Audited Balance sheet to be uploaded.

## **MANDATORY INFORMATION**

### **Required for Prequalification of the Tenderer**

I/We confirm that to the best of our knowledge this information is authentic and accept that any deliberate concealment will amount to disqualification at any stage.

Sr. No.	Particulars	Details
1. Name of the Firm		
2. Name of the Proprietor, Partners/Directors		
A (Mobile No.)		
B (Mobile No.)		
3. Office Telephone Nos.		
a.		
b.		
c.		
4. Head Office Address		
5. Email Address a.		
b.		
6. Year of Establishment		
7. Registration No.& Date of Registration.		
8. Status Of Firm. (Proprietor/Partnership/C o. etc.)		
9. Name of Bankers	a.	
	b.	
10. PAN Card No.		
11. GST No.		

**Seal and Signature of the Bidder/s not required since the document is digitally Signed**

**Date:**

**Place:**

**Note:**

Please upload scanned copies of the above mentioned documents with sr. nos. marked on it.



## **T E N D E R   F O R M**

**Mr. Dharmendra Sachan**  
**General Manager - IT**  
**Export- Import Bank of India**  
**21<sup>st</sup> Floor, Centre One, World Trade Centre.**  
**Cuffe Parade, Mumbai 400 005**

Dear Sirs,

**Ref: Procurement of Video Conference Solution for Export-Import Bank Of India, Kidwai Nagar Office, New Delhi.**

**Ref. No: IT/EXIM/RFP/2018-19/018**

I/we further agree to execute and complete the work within the time frame stipulated in the tender scope of document. I/we agree not to employ Sub-Service Providers without the prior approval of the EXIM Bank. I/We agree to pay GST, Sales Tax, Works Contract Tax, Excise Tax, **GST**, LBT, Duties, all Royalties and all other applicable taxes prevailing and be levied from time to time on such items for which the same are liable and the rates quoted by me/us are Exclusive of the same.

I/we understand that you are not bound to accept the lowest tender or bound to assign any reasons for rejecting our tender. We unconditionally agree Exim Bank's preconditions as stipulated in the tender documents and empanelment process.

I/We agree that in case of my/our failure to execute work in accordance with the specifications and instructions received from the Exim Bank, during the course of the work, Exim Bank reserves the right to terminate my contract.

Yours truly,

Seal and Signature of the Bidder/s not required since the document is Digitally Signed.

Place:	Name	:
Date :	Designation	:
	Seal	:

## INSTRUCTIONS TO TENDERERS

### 1.0 Location:

Export-Import Bank of India, 7<sup>th</sup> Floor, Tower 1, Block 1, East Kidwai Nagar, New Delhi, (Opp. AIIMS Gate No. 2)

- a. Tenderers must get acquainted with the proposed work, specifications, conditions of contract and other conditions carefully before tendering. The Tenderer shall seek **clarifications on pre-bid meeting date**. No request of any change in rates or conditions for want of information on any particular point shall be entertained after receipt of the tenders.

### 2.0 Submission of Tender:

Refer to E-Tendering Process Compliance Statement (Title No. 7) No queries will be entertained on last day of tender submission.

- 3.0 Any **printing or typographical errors /omission** in tender document shall be referred to EXIM Bank and their interpretation regarding correction shall be final and binding on Service Provider.

### 4.0 Transfer of Tender Documents:

Transfer of tender documents purchased by one intending Tenderer to another is not permitted.

### 5.0 Validity:

Tenders submitted by Tenderers shall remain valid for acceptance for a period **up to 60 days from the date of opening of Bid/tender**. The Tenderers shall not be entitled during the period of validity, without the consent in writing of EXIM Bank to revoke or cancel his tender or to vary the tender given or any terms thereof.

## **6.0 Right to accept or reject tender:**

The acceptance of a tender will rest with the EXIM Bank who does not bind themselves to accept lowest tender and reserve to themselves the authority to reject any or all the tenders received. They also reserve the right of accepting the whole or any part of the tender and the Tenderers shall be bound to perform the same at the rates quoted. All tenders in which any of the prescribed conditions are not fulfilled or are incomplete in any respect or there is any correction not duly signed and dated by the Tenderer are liable to be rejected. For this purpose, Tenderer shall quote rates for various items which will be self-sufficient to meet their whole costs for executing any / every item. No demand for variations in rates for items executed shall be entertained on the plea of the EXIM Bank deciding to delete, alter or reduce the quantities specified in respect of the any item.

## **7.0 Rates:**

EXIM Bank is not concerned with any rise or fall in the prices of product, Parts and labour.

## **8.0 Payments** for the work to be executed under this contract shall be made as per the tender document, and no variation in the mode of payment will be acceptable. **Payment will be made within 15 working days from project sign off date. No part payment/advance payment will be made.**

## **9.0 Signing of the contract:**

- a) The successful Tenderer shall be required to execute a non-disclosure agreement with Exim Bank within 07 days from the date of receipt of the notice of acceptance of tender. In the event of failure on the part of the successful Tenderer to sign the agreement in the above- stipulated period. EXIM Bank reserves the right to cancel the contract.
- b) Until the Agreement is formally signed, the Work Order / Letter of Acceptance of Tender issued to the successful tenderer and accepted by him shall be operative and binding on the EXIM Bank of India and the Service Provider.

**10.0** On acceptance of the tender, the name of the accredited representatives of the Tenderer who would be responsible for taking instructions from EXIM Bank shall be mentioned by the Tenderer.

**11.0** If so decided EXIM Bank reserves the right to appoint PMC (Project Management Consultant) or any other agency to get the quality of works checked, measurements recorded, including certification of bills etc.

**12.0** EXIM Bank has the right to delete items, reduce or increase the scope of work without the Service Provider claiming any compensation for the reduction in the scope of work.

**13.0 Notices to local bodies:**

The Service Provider shall comply with and give all notices required under any law, rule, regulations or bye laws of parliament, state legislature or local authority relating to works.

**14.0** I / We hereby declare that I / We have read and understood the above instructions for the guidance of the Tenderers. Seal and Signature of the Bidder/s not required since the document is Digitally Signed.

**15.0 Techno- Commercial Evaluation Process:**

This tender is based on Techno-Commercial Evaluation after eligibility criteria. Out of 100 Marks 70 Marks for Technical Parameters and 30 Marks for Commercial price. Only eligibility criteria qualified vendors Bids will open for technical and commercial stage. The Bank's committee decision on technical score will be final.

### APPENDIX SHOWING IMPORTANT SCHEDULE

Sr. No.	Description	Remarks
1	Earnest Money Deposit (EMD) ₹ 5,00,000 /- in the form of Demand Draft Drawn in favor of “Export-Import Bank Of India” payable at Mumbai.	EMD will be refunded within 10 working days for unsuccessful bidders and within 30 working days after project sign off for successful bidder.
2	Tender Document Fee ₹ 3,000/- in the form of Demand Draft Drawn in favor of “Export-Import Bank Of India” payable at Mumbai.	Non-refundable
3	Date of Commencement of Project	Within 10 working days from the date of award of contract.
4	Applicable Taxes shall be deducted at prevailing rate from each bill as per Govt. or Local laws.	
5	Payment Terms	Within 30 working days from date of project sign off and correct hardcopy invoice submission. (No advance payment)
6	Price validity	60 days price validity
7	Project Completion	Within 10 Weeks from date of Purchase Order.

---

## SCOPE OF WORK

**Project Location:** Export Import Bank of India, 7<sup>th</sup> Floor, Tower 1, Block 1, Kidwai Nagar East, New Delhi.

**Scope of work** includes installation, Programming, Commissioning, AMC and Training. The basic required functionalities are attached in **Annexure-I**.

**Board Room Layout** with seating arrangement schematic diagram (tentative) at Annexure II.

## BILL OF MATERIAL (BOM)

### Board Room Video Conference Solution

Sr. No.	Make	Model	Specification		Qty
1	DISPLAY SYSTEM				
1.1	Samsung/ LG / Panasonic	Professional LED	Size :	98" Diagonal	1
			Resolution :	3840*2160 (4K UHD) or better	
			Brightness :	500 nit or better	
			Contrast Ratio :	4000 : 1 or better	
			Response Time :	8ms or better	
			Viewing Angle :	178 degree horizontal and vertical	
			Audio :	Built in Speaker(10W + 10W)	
			Type :	60Hz E-LED BLU	
			Connectivity :		
			RGB :	DVI-I(D-Sub Common), Display Port 1.2 (2) → Support UHD 60hz	
			HDMI :	HDMI 1.4 x 4 or more	
			Audio :	Stereo mini Jack, RGB, DVI, HDMI	
			External Control :	RS232C(in/out), RJ45	
			Power Supply :	AC 100 - 240 V~ (+/- 10 %), 50/60 Hz	
1.2	Custom	WMK	Fixed Wall Mount	Fixed Wall Mount Kit for 98" LED	1
1.3	-	Professional LED	85" LED - Only Provision	85" LED - Only Provision (Connectivity and Cabling to be done)	0
1.4	Arthur Holm / Albiral / Soltec-EP	12" - 14 " Touch Screen with Interactive Touch	Size :	12" - 14" wide Screen	17
			Type :	Touch Screen Interactive	
			Body Finish :	Upper cover plate: Brushed stainless steel. Monitor cabinet : Powder coated	
			Brightness :	400cd/m2 or better	
			Contrst Ratio :	1000:1 or better	
			Viewing angle :	88 degree /88 degree (u/d), 88 degree /88 degree (l/r) or better	
			LED life time :	50,000 hrs. or higher	
			Monitor control :	RS422 (RJ45 CAT6A) or RS485 or RS232	
			Tilt :	110 degrees or better	
			Connectivity :	HDMI x 2 or DVI x 2	
			Installation :	16 Monitors on Table + 1 Spare Unit - Thin Client will be supplied by EXIM for each Monitors.	

1.5	Custom	Shelf	Camera Mount Shelf	Camera Mount Shelf	2
2	VIDEO CONFERENCE SYSTEM				
2.1	Polycom / Cisco	Group 700 / SX 80 With Multiparty	Full HD Video Conferencing Unit Resolution : Multiparty : Content Sharing : Camera Input : Video Standard : Video Resolution :	Full HD Video Conferencing Unit with - 1 Year Support Full HD 1080p include license if required Minimum Multiparty 1+4, preferable higher upto 1+7 H.239 to be supported for content sharing Min 2 Camera Input H.261, H.263, H.264 AVC, H.264 High Profile, H.264 SVC • 1080p, 60 fps from 1740 Kbps or better • 1080p, 30 fps from 1024 Kbps or better	1
2.2	Sony	SRG300H	Image Sensor : Optical Zoom : Viewing Angle : Pan/Tilt Angle : Video Output : Camera Control : Image Flip :	1/2.8 Exmor CMOS 30x 65 degree(Wide) - Horizontal Pan: ±170° Tilt: +90°/-20° HDMI RS-232/RS-422/RJ-45 Yes ( For Ceiling Mounting option)	1
2.3	Schurter	MCS 30	Metal Switch Short Stroke Ring Illuminated Housing material: Design : Switching voltage: Type :	Metal Switch Short Stroke Ring Illuminated <b>For Look at me Control for Camera</b> Aluminum or stainless steel, actuator material types: zinc die-cast or stainless steel Flat front design metal made 48 VDC Metal Switch Short Stroke Ring Illuminated	16
3	WIRELESS PRESENTER				
3.1	Barco	Click Share CSE 200	Wireless Presenter with 2 USB Buttons Video Output : Video Resolution : iPhone /iPad :	Wireless Presenter with 2 USB Buttons HDMI Out 1920x1200 or better able to connect thru Airplay	1



4		SWITCHING SYSTEM				
4.1		Face Plate	FP-HD-V-A	Face Plate with HDMI VGA & Audio	Face Plate with HDMI VGA & Audio	1
4.2		Extron	DXP 1616 HD 4K	16x16 HDMI with 4 Audio Outputs	16x16 HDMI with 4 Audio Outputs	1
				Input Ports :	16 x HDMI	
				Output Ports :	16 x HDMI	
				Resolution and Refresh Rate : 4096 x 2160 at 30Hz 3840 x 2160 at 30 Hz	Chroma Sampling - 4:4:4	
				Resolution range :	Up to 2560x1600 @ 60 Hz or 4K (4096x2160) @ 30 Hz, UHD (3840x2160) @ 30 Hz	
				Maximum data rate :	10.2 Gbps (3.4 Gbps per color)	
				Maximum pixel clock :	300 MHz	
				Standards :	DVI 1.0, HDMI 1.4, HDCP 1.4, CEA-861E	
				Input & Output Connectors :	16 female HDMI type A each for input and output	
				Audio Output :	4 stereo, balanced or unbalanced	
				Output volume range :	0 to -100 dB in 1 dB steps	
				Serial control port :	1 bidirectional RS-232	
4.3		Extron	DA6 HD 4K	1 Input 6 Output HDMI Distribution Amplifier	1 Input 6 Output HDMI Distribution Amplifier	4
				Resolution and Refresh Rate : 4096 x 2160 at 30Hz 3840 x 2160 at 30 Hz	Chroma Sampling - 4:4:4	
				Resolution range :	Up to 1920x1200 or 1080p @ 60 Hz, 12-bit color, 4K (4096x2160) @ 30 Hz, UHD (3840x2160) @ 30 Hz	
				Maximum data rate :	10.2 Gbps (3.4 Gbps per color)	
				Standards :	DVI 1.0, HDMI 1.4, HDCP 1.4	
				Video Input :	1 female 19-pin HDMI type A	
				Video Output :	6 female 19-pin HDMI type A	

				Serial control port :	RS-232, 3.5 mm, 3-pole captive screw connector	
4.4		Extron	DTP HDMI 4K 230 Tx	DTP Transmitter for HDMI	DTP Transmitter for HDMI	6
				Resolution and Refresh Rate : 4096 x 2160 at 30Hz 3840 x 2160 at 30 Hz	Chroma Sampling - 4:4:4	
				Resolution range :	Up to 2560x1600 @ 60 Hz or 4K (4096x2160) @ 30 Hz, UHD (3840x2160) @ 30 Hz,	
				Maximum data rate:	10.2 Gbps (3.4 Gbps per color)	
				Video input:	1 female HDMI type A	
				Interconnection between transmitter and receiver:	1 female RJ-45 per unit	
				Signal transmission distance:	1080p @ 60 Hz Up to 230' (70 m) using shielded twisted pair	
4.5		Extron	DTP HDMI 4K 230 Rx	DTP Receiver for HDMI	DTP Receiver for HDMI	7
				Resolution and Refresh Rate : 4096 x 2160 at 30Hz 3840 x 2160 at 30 Hz	Chroma Sampling - 4:4:4	
				Resolution range:	Up to 2560x1600 @ 60 Hz or 4K (4096x2160) @ 30 Hz, UHD (3840x2160) @ 30 Hz,	
				Maximum data rate:	10.2 Gbps (3.4 Gbps per color)	
				Video output:	1 female HDMI type A	
				Interconnection between transmitter and receiver:	1 female RJ-45 per unit	
				Signal transmission distance:	1080p @ 60 Hz Up to 230' (70 m) using shielded twisted pair	
4.6		Extron	DTP T USW 233	2 HDMI, VGA Switcher w/Audio – 230 feet (70 m)	2 HDMI, VGA Switcher w/Audio – 230 feet (70 m)	1
				Video input:	2 HDMI inputs, 1 VGA(15-pin HD)	
				Interconnection between transmitter and receiver:	1 female RJ-45 per unit	
				Signal transmission distance:	1080p @ 60 Hz Up to 230' (70 m) using shielded twisted pair	
				Audio Input:	1 female 3.5 mm mini stereo jack + 2 female HDMI Type A	
				Serial control port :	RS-232 via (1) 3.5 mm, 3 pole captive screw connector	

4.7		Extron	HDMIF-DVIDM	HDMI Female to DVI-D Male Adapter	HDMI Female to DVI-D Male Adapter	18
4.8		Liberty	DL-AR-819	HDMI Adaptor Ring	HDMI Adaptor Ring	1
					1 Adapter Cable DisplayPort male to HDMI female 8 inches long	
					1 Adapter Cable Micro-HDMI "D" male to HDMI female 8 inches long	
					1 Adapter Cable Mini-DisplayPort male to HDMI female 6 inches long	
					1 Apple Certified Adapter Lightning (M) to HDMI (F) and Lightning (F) to power device	
					1 Security clamp to attach Apple Adapters to DL-AR system	
					1 Base security clamp, cable and hardware for DL-AR system	
4.9		Schurter	MCS 30	Metal Switch Short Stroke Ring Illuminated	Metal Switch Short Stroke Ring Illuminated	32
					16 Nos. + 16 Nos. for Individual Mode and Common Mode Selection respectively	
				Housing material:	Aluminum or stainless steel, actuator material types: zinc die-cast or stainless steel	
				Design :	Flat front design metal made	
				Switching voltage:	48 VDC	
				Type :	Metal Switch Short Stroke Ring Illuminated	
5	DOCUMENT CAMERA					
5.1		Wolfvision / Vaddio	Eye 14 / DocCAM 20 HDBT	Ceiling Mounted Document Camera	Ceiling Mounted Document Camera	1
				Camera	1/3" CMOS	
				Native Signal Output	1920x1080, Full HD	
				Zoom	56x zoom (14x optical, 4x digital)	
				Connectors	1x HDMI Out, 1x RGB 15-pin D-Sub/VGA-plug), IP addressable LAN port 10/100Mbps with PoE+,	
				Video Out	HDMI	
				Onboard video recording including audio	Yes (720p HD, up to 30 frames per second, AVI container, H.264 codec, .AVI file format	

6		AUDIO SYSTEM				
6.1		JBL / BOSE	Control 24C / DS 100F	Ceiling Speakers with 80 Watt, Back Can and Grille	Ceiling Speakers with 80 Watt, Back Can and Grille	6
				Frequency Range :	80 Hz - 20 kHz	
				Power Capacity :	80 W Continuous Program Power	
				Nominal Sensitivity :	86 dB SPL @ 1 m (3.3 ft)	
				Nominal Coverage Angle :	130° conical coverage	
				Maximum SPL :	102 dB @ 1 m (3.3 ft)	
				Nominal Impedance :	16 ohms (Min Z 16.1 ohms @ 320 Hz)	
6.2		Crown / Crestron	Dci 8 300 / AMPI 8150	Eight Channel Amplifier - 300 Watts	Eight Channel Amplifier - 300 Watts	1
				No of Channels :	8 Channel, 300W	
				Frequency Response :	+/- 0.25 dB	
				Signal To Noise Ratio :	> 108 dB	
				Input Impedance (nominal balanced, unbalanced) :	10 kOhms, 5 kOhms	
				Load Impedance (Stereo/Dual Mode) :	2 - 16 Ohms; 70Vrms and 100Vrms	
6.3		ClearOne	Beamforming Mic Array 2	Beam Forming 2 Ceiling Microphones with 360 Degree Pickup	Beam Forming 2 Ceiling Microphones with 360 Degree Pickup	4
					Beamforming & adaptive steering technology	
					24 microphones elements	
					Should not consume any analog input ports on DSP	
				Frequency Response:	150Hz – 16kHz, +/- 3dB	
				Mounting mode selection:	Auto, Ceiling, Wall, Table	
				Acoustic Echo Cancellation (AEC)	On/Off	
				Noise Cancellation(NC) :	On/Off	
				Filters:	All Pass, Low Pass, High Pass, Notch, PEQ	
				Automatic Level Control (ALC) :	On/Off	
				Ports Type :	RJ-45	
				Distance:	Up to 200 feet	
				Daisy-Chain:	Up to 3 Beamforming Microphone Array units with each supported DSP unit in the same chain	

6.4		ClearOne	Power Supply	PoE Power supply & Cables kit for Beamforming Microphone Array	PoE Power supply & Cables kit for Beamforming Microphone Array	4
6.5		ClearOne	Mounting Kit	Ceiling Mounting Kit with 12" suspension column for Beamforming Microphone Array	Ceiling Mounting Kit with 12" suspension column for Beamforming Microphone Array	4
6.6		ClearOne	CONVERGE Pro 2 128T	DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio and built-in telephone interface.	DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio and built-in telephone interface.	2
				Input Channels	12 Mic/Line inputs with AEC	
				Telco Port	Built-in Telco	
				USB Audio	Built-in USB for PC-based conferencing	
				Daisy Chained System	Stack up units up to 144 Mic/Line inputs	
				Features	Acoustic Echo Cancellation processing	
					Distributed Echo Cancellation® on every mic input	
					Noise Cancellation with Adaptive-Ambience	
					Acoustic Intelligence with faster convergence	
					Feedback elimination	
				Frequency Response:	20Hz – 22kHz @ +4dBu, +/- 0.5dBu	
				EIN (Equivalent Input Noise):	20kHz BW, max gain, Rs = 150Ω, -126dBu	
				THD + N (Total Harmonic Distortion + Noise):	<ul style="list-style-type: none"> <li>• 20Hz – 22kHz @ +4dBu, line level, 0.006%</li> <li>• 20Hz – 22kHz @ -56dBu, mic level, &lt;0.04%</li> </ul>	
				Dynamic Range:	20Hz – 20kHz @ 0dB, >105dB	
				Crosstalk (Mic/Line):	Channel to Channel, stimulus at 20dBu to receptor at -56dBu, 1kHz, < -98dB	
				Input Impedance:	Balanced (line to ground), 2.2kΩ, 1%	
				Nominal Input Level:	Adjustable -56dB to 0dB, 7dB step coarse gain	
				Maximum Input Level:	-65dBu to 20dBu	
				Phantom Power:	48V, Impedance 6.81kΩ	
				Output Impedance:	Balanced (line to ground), 95Ω, 1%	
				Output Level:)	0dBu (Nominal), 20dBu (Max), -40dBu (Selectable)	

6.7		Audio Technica / Shure	ES 947 LED / MX395 LED	Cardioid Condenser Boundary Microphone with Mute Switch and LED Indicator	Cardioid Condenser Boundary Microphone with Mute Switch and LED Indicator	12
				Features :	Capacitive-type touch-sensitive switch allows users to easily mute/unmute the microphone	
					Integral LED ring indicates mute status – stays green when mic is live, turns red when muted	
					Rugged all-metal case with a two-layer steel mesh grille	
				Polar Pattern :	Half-cardioid (cardioid in hemisphere above mounting surface)	
				Frequency Response :	40-13,000 Hz	
				Impedence :	200 ohms	
				Maximum Input Sound Level :	142 dB SPL, 1 kHz at 1% T.H.D.	
				Signal to Noise Ratio :	66 dB, 1 kHz at 1 Pa	
7	CONTROL SYSTEM					
7.1		Crestron	AV3	3 Series Control Processor	3 Series Control Processor	1
					Modular programming architecture to let programmers independently develop and run device-specific programs for AV	
				Control Ports :	6 bidirectional COM ports	
					8 IR ports	
					8 programmable relay ports	
					8 Versiport I/O ports	
				Expansion Slots :	Expansion slots to be available for future Control port additions	
				Device Support :	iPhone®, iPad®, and Android™ control app support	
				Memory :	Onboard 1GB RAM & 4GB Flash memory	
					Programmable event scheduling with astronomical time clock	
	Front panel USB computer console port					

7.2		Crestron	Mobile Pro App	Mobile Pro App Lic for iPad	Mobile Pro App Lic for iPad	1
7.3		Apple	iPad	32 GB Wifi iPad	32 GB Wifi iPad	1
7.4		Netgear/D link	Access Point	Wireless Access Point	Wireless Access Point	1
7.5		Crestron	IRP2	IR Probes	IR Probes	2
					IR (infrared) emitter probe designed to adhere directly over the IR sensor	
					infrared LED housed in a miniature shell	
7.6		Crestron	C2N-UNI8IO	8-Button Control Panel Interface	8 buttons Universal Keypad Interface	6
					Supports 8 buttons	
				NET :	(1) 4-pin 3.5mm detachable terminal block	
				INPUT :	(1) 10-pin 0.1" IDC connector, includes (10) single conductor 22 AWG 3" flying leads	
				OUTPUT :	10-pin 0.1" IDC connector, includes (10) single conductor 22 AWG 3" flying leads Outputs comprised of (1) 24VDC, (1) 5VDC, and (8) digital outputs	
7.7		Crestron	DIN-PWS60	DIN Rail 60 Watt Power Supply	60 Watt, DIN rail-mounted power supply module for powering automation processors and other devices.	1
					60 Watt power supply module	
					100-277 Volt AC line powered	
					6M wide DIN rail mounting	
7.8		Dataprobe	iboot	LAN based Power Control Module	LAN based Power Control Module,	1
					Power Control Module controllable on LAN	

8		CABLES				
8.1		Extron/Cu stom	Cables	Cables (Lumpsum)	Cables (Lump sum)	1
					All Cables required for installation and connectivity - HDMI, VGA, Audio, Speaker, Control, Mic, STP, CATX etc. Power and Data provision will be provided by EXIM Bank	
9		SERVICES				
9.1			Services	Installation and commissioning Charges	Installation and commissioning Charges	1
9.2			Services	Programming Charges	Programming Charges	1
9.3			Services	Per Year AMC	Second Year and Third Year Full Comprehensive AMC for all hardware and software include consumables. Second year AMC will start after 12 months of AMC from project sign off date. Payment will be made half yearly advance basis only. Per Year AMC cost to be quoted.	2



# Commercial Proposal:

## Board Room Video Conference Solution

Sr. No.	Make	Model	Specification		Qty	Rate	Total
1	DISPLAY SYSTEM						
1.1	Samsung/ LG /Panasonic	Professional LED	Size :	98" Diagonal	1		
			Resolution :	3840*2160 (4K UHD) or better			
			Brightness :	500 nit or better			
			Contrast Ratio	4000 : 1 or better			
			Response Time	8ms or better			
			Viewing Angle :	178 degree horizontal and vertical			
			Audio :	Built in Speaker(10W + 10W)			
			Type :	60Hz E-LED BLU			
			Connectivity :				
			RGB :	DVI-I(D-Sub Common), Display Port 1.2 (2) → Support UHD 60hz			
			HDMI :	HDMI 1.4 x 4 or more			
			Audio :	Stereo mini Jack, RGB, DVI, HDMI			
			External Control :	RS232C(in/out), RJ45			
			Power Supply :	AC 100 - 240 V~ (+/- 10 %), 50/60 Hz			
1.2	Custom	WMK	Fixed Wall Mount	Fixed Wall Mount Kit for 98" LED	1		
1.3		Professional LED	85" LED - Only Provision	85" LED - Only Provision (Connectivity and Cabling to be done)	0		
1.4	Arthur Holm / Albiral / Soltec-EP	12" - 14 " Touch Screen with Interactive Touch	Size :	12" - 14" wide screen	17		
			Type :	Touch Screen Interactive			
			Body Finish :	Upper cover plate : Brushed stainless steel Monitor cabinet : Powder coated			
			Brightness :	400cd/m2 or better			
			Contrst Ratio :	1000:1 or better			
			Viewing angle :	88 degree /88 degree (u/d), 88 degree /88 degree (l/r) or better			
			LEd life time :	50,000 hrs or higher			
			Monitor control :	RS422 (RJ45 CAT6A) or RS485 or RS232			
			Tilt :	110 degrees or better			
			Connectivity :	HDMI x 2 or DVI x 2			
			Installation :	16 Monitors on Table + 1 Spare Unit - Thin Client will be supplied by EXIM for each Monitors.			
1.5	Custom	Shelf	Camera Mount Shelf	Camera Mount Shelf	2		

2	VIDEO CONFERENCE SYSTEM						
2.1	Polycom / Cisco	Group 700 / SX 80 With Multiparty	Full HD Video Conferencing Unit	Full HD Video Conferencing Unit with - 1 Year Support	1		
			Resolution :	Full HD 1080p include license if required			
			Multiparty :	Minimum Multiparty 1+4, preferable higher upto 1+7			
			Content Sharing :	H.239 to be supported for content sharing			
			Camera Input :	Min 2 Camera Input			
			Video Standard :	H.261, H.263, H.264 AVC, H.264 High Profile, H.264 SVC			
			Video Resolution :	<ul style="list-style-type: none"><li>• 1080p, 60 fps from 1740 Kbps or better</li><li>• 1080p, 30 fps from 1024 Kbps or better</li></ul>			
2.2	Sony	SRG300H	Image Sensor :	1/2.8 Exmor CMOS	1		
			Optical Zoom :	30x			
			Viewing Angle :	65 degree(Wide) - Horizontal			
			Pan/Tilt Angle :	Pan: ±170° Tilt: +90°/-20°			
			Video Output :	HDMI			
			Camera Control :	RS-232/RS-422/RJ-45			
			Image Flip :	Yes ( For Ceiling Mounting option)			
2.3	Schurter	MCS 30	Metal Switch Short Stroke Ring Illuminated	Metal Switch Short Stroke Ring Illuminated	16		
				For Look at me Control for Camera			
			Housing material:	Aluminum or stainless steel, actuator material types: zinc die-cast or stainless steel			
			Design :	Flat front design metal made			
			Switching voltage:	48 VDC			
			Type :	Metal Switch Short Stroke Ring Illuminated			
3	WIRELESS PRESENTER						
3.1	Barco	Click Share CSE 200	Wireless Presenter with 2 USB Buttons	Wireless Presenter with 2 USB Buttons	1		
			Video Output :	HDMI Out			
			Video Resolution :	1920x1200 or better			
			iphone/iPad :	able to connect thru Airplay			

4 SWITCHING SYSTEM							
4.1	Face Plate	FP-HD-V-A	Face Plate with HDMI VGA & Audio	Face Plate with HDMI VGA & Audio	1		
4.2	Extron	DXP 1616 HD 4K	16x16 HDMI with 4 Audio Outputs	16x16 HDMI with 4 Audio Outputs	1		
			Input Ports :	16 x HDMI			
			Output Ports :	16 x HDMI			
			Resolution and Refresh Rate : 4096 x 2160 at 30Hz	Chroma Sampling - 4:4:4			
			Resolution range :	Up to 2560x1600 @ 60 Hz or 4K (4096x2160) @ 30 Hz, UHD (3840x2160) @ 30 Hz			
			Maximum data rate :	10.2 Gbps (3.4 Gbps per color)			
			Maximum pixel clock :	300 MHz			
			Standards :	DVI 1.0, HDMI 1.4, HDCP 1.4, CEA-861E			
			Input & Output Connectors :	16 female HDMI type A each for input and output			
			Audio Output :	4 stereo, balanced or unbalanced			
			Output volume range :	0 to -100 dB in 1 dB steps			
			Serial control port :	1 bidirectional RS-232			
4.3	Extron	DA6 HD 4K	1 Input 6 Output HDMI Distribution Amplifier	1 Input 6 Output HDMI Distribution Amplifier	4		
			Resolution and Refresh Rate : 4096 x 2160 at 30Hz	Chroma Sampling - 4:4:4			
			Resolution range :	Up to 1920x1200 or 1080p @ 60 Hz, 12-bit color, 4K (4096x2160) @ 30 Hz, UHD (3840x2160) @ 30 Hz			
			Maximum data rate :	10.2 Gbps (3.4 Gbps per color)			
			Standards :	DVI 1.0, HDMI 1.4, HDCP 1.4			
			Video Input :	1 female 19-pin HDMI type A			
			Video Output :	6 female 19-pin HDMI type A			
			Serial control port :	RS-232, 3.5 mm, 3-pole captive screw connector			

4.4	Extron	DTP HDMI 4K 230 Tx	DTP Transmitter for HDMI	DTP Transmitter for HDMI	6		
			Resolution and Refresh Rate : 4096 x 2160 at 30Hz 3840 x 2160 at 30 Hz	Chroma Sampling - 4:4:4			
			Resolution range :	Up to 2560x1600 @ 60 Hz or 4K (4096x2160) @ 30 Hz, UHD (3840x2160) @ 30 Hz,			
			Maximum data rate :	10.2 Gbps (3.4 Gbps per color)			
			Video input :	1 female HDMI type A			
			Interconnection between transmitter and receiver :	1 female RJ-45 per unit			
			Signal transmission distance :	1080p @ 60 Hz Up to 230' (70 m) using shielded twisted pair			
4.5	Extron	DTP HDMI 4K 230 Rx	DTP Receiver for HDMI	DTP Receiver for HDMI	7		
			Resolution and Refresh Rate : 4096 x 2160 at 30Hz 3840 x 2160 at 30 Hz	Chroma Sampling - 4:4:4			
			Resolution range :	Up to 2560x1600 @ 60 Hz or 4K (4096x2160) @ 30 Hz, UHD (3840x2160) @ 30 Hz,			
			Maximum data rate :	10.2 Gbps (3.4 Gbps per color)			
			Video output :	1 female HDMI type A			
			Interconnection between transmitter and receiver :	1 female RJ-45 per unit			
			Signal transmission distance :	1080p @ 60 Hz Up to 230' (70 m) using shielded twisted pair			

4.6	Extron	DTP T USW 233	2 HDMI, VGA Switcher w/Audio – 230 feet (70 m)	2 HDMI, VGA Switcher w/Audio – 230 feet (70 m)	1		
			Video input :	2 HDMI inputs, 1 VGA(15-pin HD)			
			Interconnection between transmitter and receiver :	1 female RJ-45 per unit			
			Signal transmission distance :	1080p @ 60 Hz Up to 230' (70 m) using shielded twisted pair			
			Audio Input :	1 female 3.5 mm mini stereo jack + 2 female HDMI Type A			
			Serial control port :	RS-232 via (1) 3.5 mm, 3 pole captive screw connector			
4.7	Extron	HDMIF-DVIDM	HDMI Female to DVI-D Male Adapter	HDMI Female to DVI-D Male Adapter	18		
4.8	Liberty	DL-AR-819	HDMI Adaptor Ring	HDMI Adaptor Ring	1		
				1 Adapter Cable DisplayPort male to HDMI female 8 inches long			
				1 Adapter Cable Micro-HDMI "D" male to HDMI female 8 inches long			
				1 Adapter Cable Mini-DisplayPort male to HDMI female 6 inches long			
				1 Apple Certified Adapter Lightning (M) to HDMI (F) and Lightning (F) to power device			
				1 Security clamp to attach Apple Adapters to DL-AR system			
				1 Base security clamp, cable and hardware for DL-AR system			
4.9	Schurter	MCS 30	Metal Switch Short Stroke Ring Illuminated	Metal Switch Short Stroke Ring Illuminated	32		
				16 Nos. + 16 Nos. for Individual Mode and Common Mode Selection respectively			
			Housing material:	Aluminum or stainless steel, actuator material types: zinc die-cast or stainless steel			
			Design :	Flat front design metal made			
			Switching voltage:	48 VDC			
			Type :	Metal Switch Short Stroke Ring Illuminated			

5	DOCUMENT CAMERA						
5.1	Wolfvision / Vaddio	Eye 14 / DocCAM 20 HDBT	Ceiling Mounted Document Camera	Ceiling Mounted Document Camera	1		
			Camera	1/3" CMOS			
			Native Signal Output	1920x1080, Full HD			
			Zoom	56x zoom (14x optical, 4x digital)			
			Connectors	1x HDMI Out, 1x RGB 15-pin D-Sub/VGA-plug), IP addressable LAN port 10/100Mbps with PoE+,			
			Video Out	HDMI			
			Onboard video recording including audio	Yes (720p HD, up to 30 frames per second, AVI container, H.264 codec, .AVI file format			
6	AUDIO SYSTEM						
6.1	JBL / BOSE	Control 24C / DS 100F	Ceiling Speakers with 80 Watt, Back Can and Grille	Ceiling Speakers with 80 Watt, Back Can and Grille	6		
			Frequency Range :	80 Hz - 20 kHz			
			Power Capacity :	80 W Continuous Program Power			
			Nominal Sensitivity :	86 dB SPL @ 1 m (3.3 ft)			
			Nominal Coverage Angle :	130° conical coverage			
			Maximum SPL :	102 dB @ 1 m (3.3 ft)			
			Nominal Impedance :	16 ohms (Min Z 16.1 ohms @ 320 Hz)			
6.2	Crown / Crestron	Dci 8 300 / AMPI 8150	Eight Channel Amplifier - 300 Watts	Eight Channel Amplifier - 300 Watts	1		
			No of Channels :	8 Channel, 300W			
			Frequency Response :	+/- 0.25 dB			
			Signal To Noise Ratio :	> 108 dB			
			Input Impedance (nominal balanced, unbalanced) :	10 kOhms, 5 kOhms			
			Load Impedance (Stereo/Dual Mode) :	2 - 16 Ohms; 70Vrms and 100Vrms			

6.3	ClearOne	Beamforming Mic Array 2	Beam Forming 2 Ceiling Microphones with 360 Degree Pickup	Beam Forming 2 Ceiling Microphones with 360 Degree Pickup	4		
				Beamforming & adaptive steering technology			
				24 microphones elements			
				Should not consume any analog input ports on DSP			
			Frequency Response:	150Hz – 16kHz, +/- 3dB			
			Mounting mode selection:	Auto, Ceiling, Wall, Table			
			Acoustic Echo Cancellation (AEC)	On/Off			
			Noise Cancellation(NC ) :	On/Off			
			Filters:	All Pass, Low Pass, High Pass, Notch, PEQ			
			Automatic Level Control (ALC) :	On/Off			
			Ports Type :	RJ-45			
			Distance:	Up to 200 feet			
			Daisy-Chain:	Up to 3 Beamforming Microphone Array units with each supported DSP unit in the same chain			
6.4	ClearOne	Power Supply	PoE Power supply & Cables kit for Beamforming Microphone Array	PoE Power supply & Cables kit for Beamforming Microphone Array	4		
6.5	ClearOne	Mounting Kit	Ceiling Mounting Kit with 12" suspension column for Beamforming Microphone Array	Ceiling Mounting Kit with 12" suspension column for Beamforming Microphone Array	4		

6.6	ClearOne	CONVERGE Pro 2 128T	DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio and built-in telephone interface.	DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio and built-in telephone interface.	2		
			Input Channels	12 Mic/Line inputs with AEC			
			Telco Port	Built-in Telco			
			USB Audio	Built-in USB for PC-based conferencing			
			Daisy Chained System	Stack up units up to 144 Mic/Line inputs			
			Features	Acoustic Echo Cancellation processing			
				Distributed Echo Cancellation® on every mic input			
				Noise Cancellation with Adaptive-Ambience			
				Acoustic Intelligence with faster convergence			
				Feedback elimination			
			Frequency Response:	20Hz – 22kHz @ +4dBu, +/- 0.5dBu			
			EIN (Equivalent Input Noise):	20kHz BW, max gain, Rs = 150Ω, -126dBu			
			THD + N (Total Harmonic Distortion + Noise):	<ul style="list-style-type: none"> <li>• 20Hz – 22kHz @ +4dBu, line level, 0.006%</li> <li>• 20Hz – 22kHz @ -56dBu, mic level, &lt;0.04%</li> </ul>			
			Dynamic Range:	20Hz – 20kHz @ 0dB, >105dB			
			Crosstalk (Mic/Line):	Channel to Channel, stimulus at 20dBu to receptor at -56dBu, 1kHz, < -98dB			
			Input Impedance:	Balanced (line to ground), 2.2kΩ, 1%			
			Nominal Input Level:	Adjustable -56dB to 0dB, 7dB step coarse gain			
			Maximum Input Level:	-65dBu to 20dBu			
			Phantom Power:	48V, Impedance 6.81kΩ			
			Output Impedance:	Balanced (line to ground), 95Ω, 1%			
			Output Level:	0dBu (Nominal), 20dBu (Max), -40dBu (Selectable)			



6.7	Audio Technica / Shure	ES 947 LED / MX395 LED	Cardioid Condenser Boundary Microphone with Mute Switch and LED Indicator	Cardioid Condenser Boundary Microphone with Mute Switch and LED Indicator	12		
			Features :	Capacitive-type touch-sensitive switch allows users to easily mute/un-mute the microphone			
				Integral LED ring indicates mute status – stays green when mic is live, turns red when muted			
				Rugged all-metal case with a two-layer steel mesh grille			
			Polar Pattern :	Half-cardioid (cardioid in hemisphere above mounting surface)			
			Frequency Response :	40-13,000 Hz			
			Impedence:	200 ohms			
			Maximum Input Sound Level :	142 dB SPL, 1 kHz at 1% T.H.D.			
			Signal to Noise Ratio :	66 dB, 1 kHz at 1 Pa			
7	CONTROL SYSTEM						
7.1	Crestron	AV3	3 Series Control Processor	3 Series Control Processor	1		
			Control Ports :	Modular programming architecture to let programmers independently develop and run device-specific programs for AV			
				6 bidirectional COM ports			
				8 IR ports			
				8 programmable relay ports			
				8 Versiport I/O ports			
			Expansion Slots :	Expansion slots to be available for future Control port additions			
			Device Support :	iPhone®, iPad®, and Android™ control app support			
			Memory :	Onboard 1GB RAM & 4GB Flash memory			
				Programmable event scheduling with astronomical time clock			
Front panel USB computer console port							

7.2	Crestron	Mobile Pro App	Mobile Pro App Lic for iPad	Mobile Pro App Lic for iPad	1		
7.3	Apple	iPad	32 GB Wifi iPad	32 GB Wifi iPad	1		
7.4	Netgear/ Dlink	Access Point	Wireless Access Point	Wireless Access Point	1		
7.5	Crestron	IRP2	IR Probes	IR Probes	2		
				IR (infrared) emitter probe designed to adhere directly over the IR sensor			
				infrared LED housed in a miniature shell			
7.6	Crestron	C2N-UNI8IO	8-Button Control Panel Interface	8 buttons Universal Keypad Interface	6		
				Supports 8 buttons			
			NET :	(1) 4-pin 3.5mm detachable terminal block			
			INPUT :	(1) 10-pin 0.1" IDC connector, includes (10) single conductor 22 AWG 3" flying leads			
			OUTPUT :	10-pin 0.1" IDC connector, includes (10) single conductor 22 AWG 3" flying leads Outputs comprised of (1) 24VDC, (1) 5VDC, and (8) digital outputs			
7.7	Crestron	DIN-PWS60	DIN Rail 60 Watt Power Supply	60 Watt, DIN rail-mounted power supply module for powering automation processors and other devices.	1		
				60 Watt power supply module			
				100-277 Volt AC line powered			
				6M wide DIN rail mounting			
7.8	Dataprobe	iboot	LAN based Power Control Module	LAN based Power Control Module,	1		
				Power Control Module controllable on LAN			
8	CABLES						
8.1	Extron/Customer	Cables	Cables (Lumpsum)	Cables (Lump sum)	1		
				All Cables required for installation and connectivity - HDMI, VGA, Audio, Speaker, Control, Mic, STP, CATX etc. Power and Data provision will be provided by EXIM Bank			

9		SERVICES					
9.1		Services	Installation and commissioning Charges	Installation and commissioning Charges	1		
9.2		Services	Programming Charges	Programming Charges	1		
9.3		Services	Per Year AMC	Second Year and Third Year Full Comprehensive AMC for all hardware and software including consumables. Second year AMC will start after 12 months of AMC from project sign off date. Payment will be made half yearly advance basis only. Per Year AMC cost to be quoted.	2		
Total Project Cost ₹ ( Exclusive of GST)							

## Technical Evaluation Criteria

S. No.	Parameters	Max. Marks
1	The bidder must be a specialized in audio video conference solution and having minimum 5 years of experience. Supporting document to be uploaded.	5
2	Minimum three audio video conferencing implementation experience with purchase order value of ₹ 10 lakhs and above to be uploaded. Supporting document to be uploaded.	5
3	Experience in 360 degree seating type VC facility installation. Implemented Site Address, contact person details (Designation, Mobile, and Email). Supporting document to be uploaded.	20
4	The Bidder must have onsite technical support facility at New Delhi to address the technical issues within 4 hours at Exim Bank, Kidwai Nagar, New Delhi Office. Supporting document to be uploaded.	10
5	The bidder should have certified engineer from Polycom / Cisco. Supporting document to be uploaded.	20
6	The bidder should have certified engineer from Extron and ClearOne. Supporting document to be uploaded.	20
7	The Bidder must have implemented 3 Audio/Video Conference solution in any Public Sector Banks/ Financial Institutions / Govt. Sector. Supporting document to be uploaded.	15
8	The bidder must have minimum turnover of ₹ 20 crore for the FY 2016-17 / 2017-18. Supporting document to be uploaded.	5