

Ref: CO/ITD/287/R1/2022-23

#### **SECTION-V**

# PART I - Revised Functional and Technical Requirements

D - L		
Date:		
Date.		

The Asst. General Manager CO:Information Technology Department Indian Bank 254-260 AvvaiShanmughamSalai Chennai 600 014.

Dear Sir,

Sub: Request for Proposal for Supply, Installation, Commissioning and Maintenance of video conferencing equipment and display units with 3 years warranty and 3 years AMC for the administrative offices under buyback option.

Ref: RFP No. CO/ITD/287/R1/2022-23 dated 26.05.2022.

\*\*\*\*\*

Referring to your above Request for Quote (RFP), we submit the compliance details of the specifications given below:

VC E	quipment	Displa	y Units
To be supplied (Qty.)	To be taken under buyback (Qty.)	To be supplied (Qty.)	To be taken under buyback (Qty.)
26	12	26	12

12 nos. of VC endpoints and 12 nos. of display units to be taken as buy back under as is where is condition.

Details of the delivery locations of new VC endpoints and location details of buyback VC endpoints and display units are furnished in the **Annexure X**.



Ref: CO/ITD/287/R1/2022-23

# **Revised Technical Specification**

### 1. Technical Specifications of VC endpoint

Make: Model:

The proposed system must support PAL with a PTZ /P60 camera. The codec must be based on ITU standards The VC End Point should be a codec-based hardware. No software-based solution is accepted here. All components of the VC system like Codec, Camera, Microphone and Touch Control should be from the same OEM.

Sr. No	Description	Specification Parameter	Complied (Yes / No)	OEM Reference
1	Package	Full HD(1060p 60fps) camera, Codec, Microphone Array, cables, and Touch Control/Remote Control.		
2		It should support H.323, SIP standards for communications.		
	Video Standards and	It should support H.264/H.265.		
3	Resolutions	It should support 1080p 60 fps, 1080p 30 fps, 720p 60 fps and 720p 30fps		
4	Video Features	Ability to send and receive two live simultaneous video sources in a single call, so that the image from the main camera and PC or document camera can be seen simultaneously.  Should support H.239 and BFCP protocols  The system must have the ability to connect/pair with laptop for sending content with or without wires to the VC system.  The system must support content sharing through wired mode using HDMI cable while connecting PC/Laptop.  It should also support video & audio from PC/Laptop used for content sharing through wired or wireless mode.  It should transmit both people and content simultaneously to the far end location at 1080p 30fps.  In case the above feature is not available natively, then additional components (without any additional cost of bank) can be provided to achieve this.		





Ref: CO/ITD/287/R1/2022-23

l l





# Ref: CO/ITD/287/R1/2022-23

		Echo Cancollation for every input	-
		Echo Cancellation for every input must be available.	
10	Audio Outputs	Should support audio output	
11	Network Interfaces	1 LAN /Ethernet10/100/1000 Mbps full duplex Min. 1 X USB 1 X RS-232 Mini-DIN 8-Pin or equivalent	
12	Bandwidth	H323/SIP up to 6 Mbps point-to-point.	
13	Network Capabilities	Packet Loss Based Down speeding	
		QoSDiffServ	
		IP adaptive bandwidth management (including flow control)	
		Auto Gatekeeper discovery/ Manual Gatekeeper Discovery.	
14	H.323/ IP Features	Auto Network Address Translation( NAT) support	
14		Standards based- Packet Loss Recovery feature	
		System should support IPv4 and IPv6 from day one.	
		Should support URL Dialling	
		Support for H.245 DTMF tones in H.323	
15	Menu Control	Password protected system menu.	
		ITU-T standards-based Encryption of the video call	
		Call should be encrypted end-to-end on IP	
	Encryption of video call	Should support Standards-based :	
		H.235 v3 and AES Encryption via Automatic/Manual key generation and	
16		exchange The same should be available	
		In a call with Video with presentation	
		(dual video) Ability to manually turn encryption	
		ON/ OFF should be there.	
		Automatic/Manual key generation and exchange.	
17	Management	Management : System Management using HTTPS or SSH.	
		Minimum of 10x optical zoom.	
18	Camera	1920 x 1080 pixels progressive @ 60fps	
		Each camera should have minimum +20°/-20° tilt, +/- 90° pan	





Ref: CO/ITD/287/R1/2022-23

		The Camera and codec should be from the same manufacturer.	
		Should have at least 65 degrees static field of view.	
19 Directory services		Should support Local and Global / Central directories.	
		Should support preferably LDAP and H.350 protocols for directory transfer.	
20	User Interface	In order to provide a good user experience, the unit must be equipped with an intuitive Touch Screen/Panel/Remote Control for controlling the VC unit.	
		Must have ability to browse the directory, search a contact, change layouts, mute/ unmute, increase-decrease volume, video on/off.	
21	Inclusions	System should be supplied with 1 Nos of HDMI/equivalent Cables for connecting Camera and 2 Nos of HDMI for Display and content sharing. Each cable should be minimum 5 meters.	
22	Interoperable with Bank's existing MCU	Endpoint should seamlessly work and interoperable with Bank's existing MCU (poly RMX 2000) resource manager & Gatekeeper	

# 2. Technical Specifications of Display units

Make: Model:

SL NO	Technical Specification		Complied (Yes/No)	OEM Datasheet Reference
	Panel			
1	Туре	A+ Grade Panel by any reputed brand		
2	Diagonal Size	65 Inch		
3	Туре	LED		
4	Resolution	3840*2160 (4K UHD)		
5	Brightness(Typ.)	350 nit or above		
6	Contrast Ratio	1000:1		
	Sound			
7	Speaker Type	Built in Speaker (10W + 10W)		
	Input			
8	Video	HDMI 2.0 (2)		
9	HDCP	HDCP 2.2		
10	Audio	Stereo Mini Jack /HDMI/Audio (Common)		
11	USB	USB 2.0 x 2		





### Ref: CO/ITD/287/R1/2022-23

	Output		
12	Audio	Stereo Mini Jack	
13	<b>External Control</b>	RS232C(in) / RJ45	
14	<b>External Sensor</b>	IR	
	Power		
15	Power Supply	AC 100 - 240 V~ (+/- 10 %), 50/60 Hz	
	Internal Player		
16	Processor	1.1GHz Quad- Core/Dual Core CPU or higher.	
17	On-Chip Cache Memory	512 KB above	
18	Clock Speed	1.1GHz or higher	
19	Main Memory Interface	2 GB DDR4 1.5GHz 64bit or higher	
20	Graphics	Graphic resolution: 1920x1080 Output resolution: 3840x2160 (Scale up from graphic processing result.)	
21	Storage (FDM)	7.5 GB or above (min. 3.50 GB Free space)	
22	IO Ports	USB 2.0	

We certify that the goods to be supplied, we offer for the tender conforms to the specifications stipulated by you with the following deviations (deviations, if any).

List of Deviations:

1)

2)

(If left blank, it will be construed that there is no deviation from the specifications given above)

We agree to terms and conditions of this tender.

For

Office Seal (Authorised Signatory)

Place:

Date:

Name:

Designation:

Mobile No:

e-mail id:

Company Name:

**Business Address:** 

Telephone No:

