



**INDIAN INSTITUTE OF TECHNOLOGY, KANPUR**

**GT ROAD, KALYANPUR, KANPUR – 208016**

**UTTAR PRADESH, INDIA 208016**

**Tender Reference No. : CC/IITK/2019-  
20/PROJ/982 SUBMISSION END DATE-  
09.09.2019**

**TENDER DOCUMENT**

**FOR**

**“Purchase of 8 party Video Conferencing System with two 65” Displays”**

## **BID DOCUMENT**

Online bids (Technical & Financial) from eligible bidders which are valid for a period of 90 days from the date of Technical Bid opening (i.e. 09.09.2019) are invited for and on behalf of the Assistant Registrar, IIT, Kanpur for **“Purchase of 8 party Video Conferencing System with two 65” Displays”**.

<i>Name of Work</i>	Purchase of VC System
<i>Estimated Cost</i>	Rs. 10,00,000/-
<b><i>Date of Publishing</i></b>	<b>29.08.2019 (05:00 PM)</b>
<i>Clarification Start Date and Time</i>	<b>29.08.2019 (05:00 PM)</b>
<i>Clarification End Date and Time</i>	<b>6.09.2019 (05:00 PM)</b>
<i>Queries (if any)</i>	<i>No queries will be entertained after clarification end date and time</i>
<b><i>Bid Submission Start Date</i></b>	<b>29.08.2019 (05:00 PM)</b>
<i>Last Date and time of submitting the Bids</i>	<b>9.09.2019 (05:00 PM)</b>

**The bids have to be submitted in sealed envelope (separate envelopes for technical and financial bids) in Computer Centre Office.**

## **INSTRUCTION FOR BID SUBMISSION**

### **1. Technical Bid: List of Documents to be submitted:-**

- i. Copy of certificate of GST.
- ii. OEM Authorizations
- iii. Copy of specifications or brochures (if any).
- iv. Compliance Sheet for all the Technical Specifications

**Please note that no indication of the rates/amounts be made in any of the documents submitted with the TC-BID.**

### **2. Financial Bid**

- a. The currency of all quoted rates may be in Indian currency/USD/Euro.
- b. The Financial Proposal should clearly mention all applicable taxes, duties, fees, levies, and other charges imposed under the applicable laws.

### **3. Last Date for Submission of Tender:**

- a. Online bids complete in all respects, must be submitted on or before the last date and time specified in the schedule of events.
- b. The IIT, Kanpur may, at its own discretion, alter/extend the last date for submission of tenders.

### **4. Bid Validity**

- a. All the Bids must be valid for a period of 90 days from the last date of submission of the tender for execution of Contract. However, the quoted rates should be valid for the initial/ extended period of the Contract from the effective date of the Contract. No request will be considered for price revision during the original Contract period.
- b. A bid valid for a shorter period shall be declared as non-responsive.
- c. In exceptional circumstances, prior to expiry of the original time limit, the IIT may request the bidders to extend the period of validity for a specified additional period beyond the original validity of 90 days. The request and the bidders' responses shall be made in writing. The bidders, not agreeing for such extensions will be allowed to withdraw their bids without forfeiture of their Bid Security.

### **5. Modification / Substitution/ Withdrawal of bids:**

- a. No Bid shall be modified, substituted or withdrawn by the Bidder after the Bid 's due Date.
- b. Any alteration/ modification in the Bid or additional information supplied subsequent to the Bid's due Date, unless the same has been expressly sought for by the Authority, shall be disregarded.

### **6. Rejection of the Bid:** The bid submitted shall become invalid and tender fee shall not be refunded if:-

- a. The bidder is found ineligible.
- b. The bidder does not provide all the documents as stipulated in the bid document.

## **Tender document**

Computer Centre  
Institute of Technology Kanpur  
Kanpur (UP) 208016 India

### **Subject: Enquiry for purchase of 8 party Video Conferencing System with two 65" Displays**

Enquiry Date: 29.08.2019 (05:00 PM)

Enquiry No CC/IITK/2019-20/PROJ/982

Sir / Madam,

With reference to the subject mentioned above, you are invited to submit the quotation online for VC system to be deployed in Director Office Conference Room. Technical specifications of the required system are enclosed. Total required quantity is 1 VC system with 2 nos. of 65" Displays. Do not send the quotation through email.

Make sure that the quotation is valid up to 90 days and must be submitted by **09.09.2019 before 5:00 PM.**

The quotation should have the following details:

1. Delivery Period
2. Rates quoted must be for IIT Kanpur including packing forwarding and freight
3. Bidder must be GST registered.
4. Bidder should submit authorization letter from the OEM of the VC system and 65" Displays.

Terms and condition:

1. Our Institute is partially exempted from custom duty. Custom duty exemption certificate will be issued and applicable custom duty is 5.5%.
2. All applicable Taxes as per institute rules should be mentioned separately.

Clarifications:

Please contact Mr. Navpreet Singh, Chief Engineer, Computer Centre ([navi@iitk.ac.in](mailto:navi@iitk.ac.in)) for any clarifications.

## Technical Specifications Sheet for VC System

The minimum specifications given below.

<b>Technical Specifications of Video Conferencing System with Automatic Voice &amp; Face Tracking Camera System</b>		
<b>The proposed system must support PAL/equivalent with PTZ camera. The codec must be based on ITU standards &amp; hardware based. No software based solution will be accepted. All components of the VC system like Codec, Camera and Microphones should be from the same OEM.</b>		
Sr. No.	Description	Specification Parameter
1	Package	Full HD 1080p60 PTZ Camera, Codec, Microphone Array, Cables and Wireless Remote Control
2	Video Standards and Resolutions	It should support H.323 & SIP standards for communications.
		It should support interoperability and bandwidth saving using video compression H.261, H.263, H.264 AVC, H.264 SVC, H.264 High Profile
		It should support 1080p 60 fps, 1080p 30 fps, 720p 60 fps, 720p 30fps & 4CIF.
3	Content Standards and Resolutions	It should support content sharing using standard based H.239 & BFCP. It should also support audio from PC used for content sharing.
		It should transmit both people and content both simultaneously to the far end location at 1080p 30fps
4	Wireless Content Sharing Capability	It should be possible to share multiple (up to 4 simultaneously) high-res content streams up to 60 fps via integrated or additional content sharing device during a conference or P2P call.
		Simultaneous content connection using the tools such as Airplay, Miracast and HDMI should be available.
5	Audio Standards and Features	It should support G.711, G.728, G.729A, G.722, G.722.1, AAC-LD or better
		It should support 20kHz or better bandwidth with crystal clear audio and stereo sound.
		Automatic Gain Control and Automatic Noise Suppression
		Keyboard noise reduction and instant adaptation echo cancellation
		The system should be capable of creating an acoustic zone such that the far end participants should only hear audio from the people with in that zone. Any audio originating outside of the zone should be cancelled/filtered by the solution.
6	Video and Audio Inputs	2 x HDMI/HDCI input for connecting 2 Full HD cameras
		1 x HDMI/DVI input to share FHD content from PC/Laptop/Document camera.
		1 x VGA input for content sharing through PC/Laptop
		2 x Microphone Inputs or more with support for connecting minimum 4 ceiling microphones. The bidder needs to provide 2 ceiling microphones (white color) with 360 degree coverage from day one.
		1 x RCA/3.5mm stereo line-in
7	Video and Audio Outputs	2 x HDMI output for connecting main monitor & second monitor.
		1 x HD output for conference recording using local DVR.
		1 x RCA/3.5 mm stereo line-out
8	Other Interfaces	1 x 10/100/1000 LAN port
		2 x USB for software upgrade and connecting external devices
		1 x RS-232 DB-9-pin or equivalent
9	Camera	1/2.33" CMOS Sensor or better

		The camera should support minimum 10X optical zoom, PAN +/-100°, Tilt +20/-30° & minimum 10 camera presets.
10	Automatic Voice & Face Tracking Camera System	The camera system should be capable of advanced voice & face-recognition technology from day one such that it automatically scans the room and seamlessly commands the main camera to appropriately frame the users/speaker during a call without any manual intervention upto a range of 30 feet or more.
		Video Conference Camera and Codec should be controlled using same remote control.
11	Network Features	H.323 and SIP bandwidth up to 6 Mbps
		IPv4 and IPv6 support from day one
		Auto Gatekeeper Discovery, IP Precedence & QoS with support for H.323 based lost packet recovery.
12	Multisite Feature	It should support inbuilt multiparty feature with support for 1+7 sites at 720p from day one.
13	Security	Media Encryption (H.323, SIP): AES-128, AES-256
		Authenticated access to admin menus, web interface and telnet API
		Local account password policy configuration
		Global Directory/Centralized Directory/LDAP support
14	Other Standards	H224/H.281, H.323 Annex Q, H.225, H.245, H.241, H.239, H.243, H.460
		The device must be capable of native integration with Microsoft On Premise SFB & O365 through additional software license in future.
15	Warranty	The complete solution should be from the same OEM with 3 years onsite comprehensive warranty from day one.

Technical Specifications of 65 inch Signage Quality Display for VC Equipment			
Sr.No		Description	Specification Parameter
1	General	Screen Size	65
		Panel Technology	IPS
		Aspect Ratio	16.9
		Native Resolution	3,840 x 2,160 (UHD)
		Brightness	500 cd/m2
		Contrast Ratio	1,000:1
2	Panel	Dynamic CR	1,000,000:1
		Viewing Angle (H x V)	178 x 178
		Response Time	8ms (G to G)
		Surface Treatment	Low Haze 1%
		Life Time (Min.)	50,000 hours (Typ.)
		Operation Hours	24 hours
		Orientation	Portrait & Landscape
3	Connectivity	Input	HDMI, DP, DVI-D, Audio, USB 3.0, SD Card
		Output	DP, Audio, External Speaker Out
		External Control	RS232C, RJ45, IR Receiver, Pixel Sensor
4	Physical Specification	Bezel Color	Black
		Bezel Width	12.1 mm (T), 12.6 mm (R/L), 15.7 mm (B) [Indicative]

		Monitor Dimension (W x H x D)	1,458.6 x 848.9 x 40.1 mm [Indicative]
		Weight (Head)	26.0 kg [Indicative]
		Carton Dimensions (W x H x D)	1,561 x 971 x 190 mm [Indicative]
		Packed Weight	32.5 kg [Indicative]
		VESATM Standard Mount Interface	300 x 300 mm [Indicative]
5	Special Features		Temperature Sensor, Auto Brightness Sensor, Tile Mode (up to 15x15), Natural Mode@Tile Mode, ISM Method, Internal Memory (8GB, System 4GB), Wi-Fi built-in (802.11n), USB Cloning, Content Scheduling, Sync mode, PM mode, Fail Over, Wake on LAN, BEACON (On/Off), Embedded Template, PIP/PBP
6	Environment Conditions	Operation Temperature Range	0°C to 40°C
		Operation Humidity Range	10% to 80%
7	POWER	Power Supply	100-240 V~, 50/60 Hz
		Power Type	Built-In Power
		Power Typ.	134 W
		Consumption Smart Energy Saving	90 W
8	Standards & Certifications	Safety	UL / cUL / CB / TUV / KC
		EMC	FCC Class "A" / CE / KCC
		ErP / Energy Star	NA / EPA7.0
9	Media Player Compatibility	OPS Type Compatible	Yes
		External Media Player Attachable	Yes (MP500 / MP700)
10	Software Compatibility	SuperSign W/Lite	Yes
		SuperSign C	Yes
11	Accessories	Basic	Remote Controller (2ea batteries included), Power cord, QSG, HDMI cable, Regulation book, Phone to RS232C gender, Memory cover
		Optional	Speaker (SP-5200), Stand (ST-651T), Pixel sensor (KT-SP0), Media player, Wall bracket (LSW350B), VESA Adapter (AM-B330S), OPS Kit (KT-OPSA), HDBaseT (EB-B100)
12	Warranty		3 Year comprehensive onsite warranty

All the cables (HDMI/Power etc.) should have sufficient lengths so that the system can be installed as per the following Layout

