

File No. 19018/9/2022-GA
Government of India
Ministry of Environment, Forest and Climate Change
GA Section

Indira Paryavaran Bhawan,
Jorbagh Road,
New Delhi – 110003.
Dated: July 14, 2023

NOTICE INVITING TENDER

**Procurement of VC Codec with Microphones and Camera for the Kaveri
conference Hall in the Ministry of Environment, Forest and Climate Change**

The Ministry of Environment, Forest and Climate Change (MoEF&CC) invites E-Tender for procurement of VC Codec with Microphones and Camera for the Kaveri conference Hall in the Ministry of Environment, Forest and Climate Change from interested Suppliers. The Eligible suppliers can submit the Bid document online through e-procurement portal of the Ministry (<https://moefcc.euniwizarde.com/>).

APPENDIX A TO THE NOTICE OF TENDER

1. Ministry of Environment, Forest and Climate Change invites bids from eligible suppliers. The basic details of tender are as under:

Name of work	Procurement of VC Codec with Microphones and Camera for the Kaveri conference Hall in the Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jorbagh Road, New Delhi on outsourcing basis
Tender No.	File No. 19018/9/2022-GA
Estimated Cost of work	Rs.10,00,000/-
Earnest money (EMD)	Rs. 20,000/- (2 % of the estimated cost of Tender)
Tender Validity	30 days
Date of release of tender	14.07.2023
Last date & time for downloading of tender documents	17.07.2023 upto 1000 hrs.
Last date and time for submission of tender document	17.07.2023 upto 1500 hrs.
Date and time for opening of Technical Bid	17.07.2023 at 1530 hrs.
Date and time for opening of Financial Bid	18.07.2023 at 1600 hrs.

TERMS & CONDITIONS :-

ELIGIBILITY CRITERIA: DOCUMENTS TO BE UPLOADED FOR EVALUTING RESPONSIVENESS OF THE BIDS (THE UNDERMENTIONED DOCUMENTS NEEDS TO BE UPLOADED FOR TECHNICAL EVALUATION OF RESPONSIVENESS OF BIDS).

1. **Scope of Supply:** Scope of supply (Bid price to include all cost components):
Supply Installation Testing and Commissioning of Goods

The Bidder will inter alia, Supply Installation Testing and Commissioning for the following:

Sl.No.	Items	Specifications
i.	30x Optical Zoom PTZ Camera	SITC of 4K @30fps & Full HD 1080p @ 60fps PTZ Camera with minimum 30X Optical Zoom & FoV of minimum 68 deg , min 255 Presets.Camera should support simultaneous outputs through Ethernet, HDMI, 3G-SDI, Audio In and can be controlled via RS232 & 422 In & Out & IP.Panning angle -170° ~ +170°, Tilting angle -30° ~ +90° . The tilting and panning speed of camera should be minimum 300° per second. Camera should support SRT, FreeD Protocol, PoE and Virtual USB Driver and should be NDI compatible. OEM should be CE, FCC, RoHS & BIS Certified
ii.	Camera Kit	SITC of PTZ camera wall mount stand.
iii.	HDMI to USB Converter	SITC of HDMI to USB video capture recorder with HDMI bypass can support resolutions up to 18Gbps (600MHz) 4K UHD with HDR (via the bypass path) while simultaneously streaming the audio and video signal at 4K@60 to a USB connected PC for capture or re-broadcast UHD+ HDMI to USB-C Capture with HDMI IN and HDMI OUT. HDMI IN /Output HDCP support v1.4 and v2.2. Audio IN support LINE IN and MIC IN. Supports video timing stabilization to help ensure a reliable and stable USB capture stream. Capturing over USB 3.0 allows uncompressed video and audio data capture (up to 4K2K@30, LPCM 2.0). Compliance with the UAC (USB Audio Class) and UVC (USB Video Class) standards, allows the unit to support most common capture and video streaming software.
iv.	Technical Specifications of Room Based VC Endpoint	The proposed system must support PAL/equivalent with PTZ camera. The codec must be based on ITU standards & hardware based. No software based solution will be accepted.
	SITC Include Items	4K Codec, Two Omnidirectional Digital Microphone, Cables and Wireless Remote Control from same OEM.
		It should support H.323 & SIP standards for communications.

	Video Standards and Resolutions	It should support interoperability and bandwidth saving using video compression H.264 AVC, H.264 High Profile, H.265
		It should support 1080p 60 fps, 1080p 30 fps, 720p 60 fps, 720p 30 fps.
	Content Standards and Resolutions	It should support both wired and wireless content sharing using standard based H.239 and BFCP. It should also support audio from Laptop used for content sharing.
		It should transmit content to the far end location up to 4K15fps.
		It should support inbuilt feature for wireless content sharing from Windows, MacOS, Android, iOS Smartphones & Tables without downloading any application on the user device.
		It should support Content Annotation and WhiteBoarding/Blackboaring capability when connected to Touch Enabled Display/Monitor.
	Audio Standards and Features	It should support G.711, G.728, G.729A, G.722, G.722.1, G.719 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, NoiseBlockAI and Acoustic Fence.
	Video and Audio Inputs	1 x HDMI/HDCI/USB input for connecting main Full HD camera
		1 x HDMI input to share 4K/Full HD content from PC/Laptop/Document camera/PTZ Camera.
		3 x HDMI/USB inputs to connect additional PTZ cameras from same OEM to capture whiteboard/presenter and podium area in future whenever required.
		3 x Microphone Inputs or more with support for minimum 3 digital omnidirectional mics. The bidder needs to quote 2 digital omnidirectional microphone with mute/unmute soft touch button on the microphone. Each microphone should have atleast 20 feet pickup range.
		1 x RCA/3.5mm stereo line-in
	Video and Audio Outputs	2 x HDMI output for connecting primary and secondary 4K(UHD)/Full HD displays.
		1 x RCA/3.5 mm stereo line-out
	Other Interfaces	1 x 10/100/1000 Ethernet port
		1 x USB to support system software upgrade
		Bluetooth 5.0 and WiFi 802.11a/b/g/n/ac (MIMO) for Wireless Content Sharing for Guests using their Smartphones and Tablets (Android and iOS)
1 x RS-232 Serial Port or equivalent port for connecting to external RS-232 controller		
Network Features	H.323 and SIP bandwidth supporting up to 6 Mbps or more.	
	Must support IPv4 and IPv6 from day one on both H.323 and SIP.	
	Auto Gatekeeper Discovery, Lost Packet Recovery (LPR) technology, IP Precedence and DiffServ, Configurable MTU size	

	USB Pass-Thru Mode	The system should have inbuilt functionality to use the VC system as an external camera and microphones when connected to a Laptop/PC over a single USB cable without using any external hardware components to connect to any Cloud Based VC platform like Cisco Webex, Zoom, BlueJeans, Microsoft Teams, Google Meet, etc.
		The system should be able to support up to 1080p30fps video transmit in USB Pass-thru mode.
		It should be possible to Mute/Unmute all the microphones and control camera functionality from the same remote control/touch control panel during USB pass-thru mode.
		The system should be supplied with 10 mtrs. single USB 3.0 cable from the same OEM for USB Pass-thru mode for seamless functionality.
	Security	Media Encryption (H.323, SIP): AES-128, AES-256, H.235.6 support
		Authenticated access to admin menus, web interface and APIs
		Local account password policy configuration
		Global Directory/Centralized Directory/LDAP support
	Other Standards/features	H.460.18, H.460.19, SSL, TLS
	Warranty	The complete solution should be from the same OEM with 3 year warranty from day one.
v	Installation	SITC of above devices with cables and connectors.

2. **Experience:-** Proof of executing order for similar work of Supply Installation Testing and Commissioning of VC Codec and Camera during last two financial years i.e. Year 2021-2022 and 2022-2023.
3. **Turnover:** Annual turnover certificate certified by Chartered Accountant for an amount of Rs. 15 lakh (Rupees Fifteen Lakhs only) or more during the last two financial years, i.e. Financial Year 2021-2022 and 2022-2023.
4. Copies of Valid Registration of **PAN** and GSTN as applicable.
5. The firm should have not been **blacklisted** by any Govt. Ministry/Department /Organization and no legal suit/criminal case pending against it, its owner or proprietor or any partner or having been earlier convicted for violation of any law in force shall not be eligible. An undertaking to this effect duly signed by concerned person should be uploaded along with tender documents. This statement, if found to be incorrect in any manner or part thereof, at any stage and even after award of contract, shall result in forfeiture of Earnest Money

Deposit(EMD)/ Performance guarantee in the form of Security Deposit and the contract will also be terminated immediately.

6. An **EMD of Rs. 20,000/-**(Rupees Twenty thousand only) in favour of Pay and Accounts Officer, MoEF&CC in the form of a demand draft has to be submitted separately in the Ministry and uploaded in the portal.
7. **OEM Authorization Certificate:** Bid specific OEM Authorization certificate to be uploaded.
8. **Service & Support:** Escalation Matrix For Service Support: Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
9. Bidder's offer is liable to be rejected if they don't submit any of the certificates /documents sought in the Bid document and Corrigendum if any.
10. In all matters of dispute relating to this contract, the decision of the Ministry shall be final and binding upon the agency.
11. The Bidder should submit an undertaking regarding agreement to terms and Conditions.

Submission, Receipt and Opening of Bid

- i. Both Technical and Financial Bids shall contain no interlineations or overwriting. Submission of letters for both Technical and Financial Bids should be as per Annexure I & Financial Bid be uploaded as per Annexure II given in the Tender.
- ii. An authorized representative of the Bidder shall initial all pages of the Technical Bid. **The authorization shall be in the form of a written power of attorney accompanying the Bid or in any other form demonstrating that the representative has been duly authorized to sign.**
- iii. Bidder must Submit:
 - a. **Technical Bid:**

Scanned copies of Technical Bid shall be submitted through online mode as per the Eligibility Criteria (**Annexure-I**).
 - b. **Financial Bid:**

The Financial Bid should be submitted Online and attached in PDF format. Any Indication of 'Quoted Price' in the online technical Bid Documents shall lead to rejection of the Bid outright. For evaluation purpose the uploaded offer documents will be treated as authentic and final. No hard copy of Bids shall be submitted.

Bid Evaluation

- i.) From the time the Bids are opened to the time order is placed, the bidder should not contact the Ministry on any matter related to its Technical and/or Financial Bid. Any effort by Bidder to influence the Ministry in the examination, evaluation, ranking of Bid, and recommendations for issue of order may result in the rejection of the Bid.
- ii.) The Ministry has constituted a 'Tender Evaluation Committee' (TEC) which will carry out the entire evaluation and award process.
- iii.) The TEC shall evaluate the Technical and Financial Bids and other standard forms on the basis of their responsiveness to the Terms of Reference and by applying the evaluation criteria specified in the Tender Terms and Conditions.

6. EVALUATION CRITERIA

- a. First the technical proposals will be opened and eligibility criteria along with supporting documents shall be verified. In case of any missing information, including supporting documents, the proposals will be rejected straight away.
- b. The Financial bid of only technically qualified bidders shall be evaluated who fulfill the eligibility criteria including having furnished all the supporting documents.
- c. The bidder shall be considered based on **lowest quoted price amongst the technically shortlisted bidders.**

(K.N.Soren)
Under Secretary to the Govt. of India
Tel. No. 20819194

ANNEXURE-I

To,
The Under Secretary (GA)
Ministry of Environment, Forest and Climate Change,
Indira Paryavaran Bhawan, Jor Bagh,
New Delhi-110003.

Subject: Procurement of VC Codec with Microphones and Camera for the Kaveri conference Hall in the Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh, New Delhi-110003.

Sir.

I/we intend to submit the quotation on the subject captioned above and hereby consent to agree/accept all terms and conditions stipulated in Ministry of Environment, Forest and Climate Change File No. 19018/9/2022-GA, dated 14th July, 2023. The information desired is as per the following details:-

SI.No	Name of Items	Details/Description
1	Name of the Firm	
2	E-mail ID/ Address of the Firm	
3	Name & Telephone No. of Authorised Representative of the Firm	
4	EMD Details (Amount, Name of Bank Branch DD date and No.)	
5	Experience Details of last two years (proof to be attached)	
6	The details of the PAN and other statutory registration	
7	GST Registration Number,	
8	Annual turnover certificate	
9	Certificate for not blacklisting	

10	OEM Authorization Certificate	
11	Escalation Matrix or Service Support	

2. I/we undertake that documents are genuine/authentic and nothing material has been concealed and that I /we are not blacklisted/debarred by any Government Ministry/Department/organization. I/we understand that the offer is liable to be cancelled, if found to be having obtained, through fraudulent means/concealment of information.

(Signature of Authorized Signatory)

Name of the bidder:
Complete Address: Address (Works),
Contact Nos.

To,
The Under Secretary (GA)
Ministry of Environment, Forest and Climate Change,
Indira Paryavaran Bhawan, Jor Bagh,
New Delhi-110003.

Financial Bid for Procurement of VC Codec with Microphones and Camera for the Kaveri conference Hall in the Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh, New Delhi-110003.

(in Rs.)

S.No.	Model No.	Description	Qty.	Price
1.	Lumens VCA61P : 30x Optical Zoom PTZ Broadcast Camera	SITC of 4K @30fps & Full HD 1080p @ 60fps PTZ Camera with minimum 30X Optical Zoom & FoV of minimum 68 deg , min 255 Presets.Camera should support simultaneous outputs through Ethernet, HDMI, 3G-SDI, Audio In and can be controlled via RS232 & 422 In & Out & IP.Panning angle -170° ~ +170°, Tilting angle -30° ~ +90° . The tilting and panning speed of camera should be minimum 300° per second. Camera should support SRT, FreeD Protocol, PoE and Virtual USB Driver and should be NDI compatible. OEM should be CE, FCC, RoHS & BIS Certified	1	
2.	Camera Kit	SITC of PTZ camera wall mount stand.	1	
3.	Cypress CUSB V606H	SITC of HDMI to USB video capture recorder with HDMI bypass can support resolutions up to 18Gbps (600MHz) 4K UHD with HDR (via the bypass path) while simultaneously streaming the audio and video signal at 4K@60 to a USB connected PC for capture or re-broadcast UHD+ HDMI to USB-C Capture with HDMI IN and HDMI OUT. HDMI IN /Output HDCP support v1.4 and v2.2. Audio IN support LINE IN and MIC IN. Supports video timing stabilization to help ensure a reliable and stable USB capture stream. Capturing over USB 3.0 allows uncompressed video and audio data capture (up to 4K2K@30, LPCM 2.0). Compliance with the UAC (USB Audio Class) and UVC (USB Video Class) standards, allows the unit to support most common capture and video streaming software.	1	
4.	POLY G7500	SITC of 4k Base Unit with UHD 4k video codec and Wireless BT remote, Cable: 1 CAT 5E LAN 3.6m. Power: India BIS. Supply with two IP Table top	1	

		Microphone with 1 Year Partner premium warranty.		
5.	Installation	SITC of above devices with cables and connectors.	1	
Total				

Rates are inclusive of all taxes.

Note: The L-1 bidder for the purpose of award of contract will be decided on the basis of total cost of the Bid & as per the feasibility of rates.

I agree with the Terms and conditions of the Bid document.

(Signature of Authorized Signatory)

Name of the bidder:

Complete Address: Address (Works),
Contact Nos.