



**THE JHARKHAND STATE COOPERATIVE MILK
PRODUCERS' FEDERATION LTD.**

FTC CAMPUS, SEC-2, DHURWA, RANCHI – 834004
Ph.: +91-(0651) 2543062, MOB: 7544003404/7544003412,
Email: purchase@jmf.coop



TENDER DOCUMENT

(COMPLETE BIDDING DOCUMENT)

TENDER INVITATION

**FOR SUPPLY, INSTALLATION &
COMMISSIONING OF VIDEO CONFERENCING
SYSTEM**

Single Stage - Two Parts Bid

Tender No. JMF-ICT-Video Conferencing-System/2021-22/033

Important dates:

Publication of Tender Notice : 23 Sept 2021
Receipt of completed tender : 09 Oct 2021 till 17:30 hrs

Name of Tenderer : _____
Address : _____
Tel./ Mob. no : _____
Email Address : _____

The tenderer shall sign on the last page together with initials on every page. Initial/signature will indicate the acceptance of the tender terms and conditions by the tenderer.

Tender Fee: Rs. Nil/-

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The Jharkhand State Cooperative Milk Producers' Federation Ltd. (JMF), registered under Jharkhand Co-operative Societies Act, 1935 is engaged in milk procurement, processing and marketing activities of item milk and milk products in the state of Jharkhand and is popularly known for its brand 'Medha'. Under an MoU, the Federation is being managed by the National Dairy Development Board (NDDB).

Sealed offers are invited from reputed Service Provider/Suppliers/ Agency for Supply, Installation & Commissioning of Video Conferencing System. Details of items can be seen in the enclosed format.

The Head Office is Located at Ranchi (Jharkhand) and is inviting offers as per prescribed proforma. The quantity detail is mentioned as below:

S. No.	Description	Qty	Delivery
1.	Supply, Installation & Commissioning of Video Conferencing System	Detail Qty attached as Annex-II	Medha Dairy Plant, Beside Birsa Munda Central Jail, Hotwar, Ranchi-835217, Jharkhand

Detailed specifications for Supply, Installation & Commissioning of Video Conferencing System is enclosed as Annex-II

Filled in tender document duly signed & stamped in all pages of tender document with subject line: **'TENDER FOR SUPPLY, INSTALLATION & COMMISSIONING OF VIDEO CONFERENCING SYSTEM'** should reach us on or before **09 Oct 2021 by 17:30 Hrs.** at the below Address ONLY.

The Jharkhand State Cooperative Milk Producers' Federation Ltd
Medha Dairy Plant, Beside Birsa Munda Central Jail, Hotwar, Ranchi-835217, Jharkhand.

The rate offered shall be on 'Free Delivery at Site (F.O.R.)' Basis to be delivered at our below Dairy Unit/Dairy Plant:

Medha Dairy Plant,
(A Unit of Jharkhand State Co-Op. Milk Prod. Fed. Ltd.),
Beside Birsa Munda Central Jail,
Hotwar, Ranchi – 834012. (Jharkhand)
Mob: 7544003404 / 7544003412

TENDER SUBMISSION:

SEALED-TENDERS are invited for supply of **Supply, Installation & Commissioning of Video Conferencing System** in single stage two cover system i.e. Pre-Qualification/Technical Bid (Technical Envelope) and Financial Bid (Commercial Envelope) as below:

Envelope 1: Technical Bid

The bidder should submit eligibility criteria, technical details as required in enclosed **Annex-I** and **Annex-II** in the Technical Bid.

Envelope 2: Commercial Bid

The bidders should quote the prices in Indian Rupees in price bid format in the Financial /Commercial Bid Format enclosed as **Annexure-III** as per technical parameters/ specifications enclosed as **Annexure-II**.

Under this process, the Eligibility and qualification of the Applicant/ Agency will be first examined based on the detail submitted under first cover (Technical Bid) with respect to eligibility criteria and specifications prescribed in this tender document. The Price Bid under the second cover shall be opened for only those Applicants whose technical Applications are responsive to eligibility and qualifications requirements as per Tender document.

Managing Director
Jharkhand State Co-Op.
Milk Producers' Fed. Ltd.



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1. INSTRUCTION TO BIDDER / TENDERER

1. The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Document. Failure to furnish all information or authentic documentation required by the Bidding Document may result in rejection of the Bid.
2. Tender bid can be sent by post/ courier or submitted by hand at our office by time as specified in tender notice. Tenders received late will be rejected.
3. Bid can be submitted by hand or by post/ courier. For bids submitted by post or Courier, it is bidder's responsibility that bid reaches our office on or before the scheduled time and date.
4. In case tender opening date is declared a Holiday, bids shall be opened on next working day at the same time specified in tender.
5. The unit rates and the prices shall be quoted by the Bidder entirely in Indian Rupees unless otherwise specified in Bidding/ Tender document in case of International Competitive Bidding (ICB). All payments shall be made in Indian Rupees only, unless otherwise specified in the Bidding/ Tender document.
6. To establish their eligibility, Bidders shall complete the eligibility criteria specified / requested in the Bid/ Tender document.
7. Any attempt by a Bidder to influence the Procuring Entity "The Jharkhand State Cooperative Milk Producers' Federation Ltd. (JMF)", in the examination, evaluation, comparison, and post qualification of the Bids or Contract award decisions may result in the rejection of its Bid, in addition to the legal action which may be taken by the Procuring Entity under the Act and the Rules.
8. Information relating to the examination, evaluation, comparison, and post-qualification of Bids, and recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process until information on Contract award is communicated to all Bidders.
9. To assist in the examination, evaluation, comparison and qualification of the Technical or Financial Bids, the Bid evaluation committee may, at its discretion, ask any Bidder for a clarification regarding its Bid. The committee's request for clarification and the response of the Bidder shall be in writing.
10. Any clarification submitted by a Bidder with regard to his Bid that is not in response to a request by the Bid evaluation committee shall not be considered.
11. The determination of qualification of a Bidder in evaluation of Technical Bids shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder and in accordance with the qualification criteria indicated in Qualification and Evaluation Criteria. Factors not included in Qualification and Evaluation Criteria shall not be used in the evaluation of the Bidder's qualification.
12. The Bid evaluation committee shall have full powers to undertake negotiations where it deemed necessary. Negotiations may, however, be undertaken only with the lowest Bidder(s) only.
13. JMF reserves the right to accept or reject any Bid, and to annul the Bidding process and reject all Bids at any time prior to Contract award without assigning any reasons thereof and without thereby incurring any liability to the Bidders.
14. JMF shall award the contract to the Bidder whose offer has been determined to be the lowest in accordance with the evaluation criteria set out in Evaluation and Qualification Criteria and if the Bidder has been determined to be qualified to perform the contract satisfactorily.

Signature of the Bidder with stamp
Authorized Contact Person

Mobile No. _____



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2. ELIGIBILITY AND QUALIFICATION REQUIREMENTS:

The Bidding is open to all qualified Bidder who fully meet the following maximum qualifying requirements:

1. The bidder should be an ISO Certified company, OEM (Original Equipment Manufacturer) or their Authorized dealer /partner. In case of authorized dealer /partner, a letter of authorization with seal and stamp from manufacturer in name of **Managing Director Jharkhand State Cooperative Milk Producers' Federation Ltd.** must be furnished. (Submit self-attested documents)
2. The bidder should have the experience of supply and installation of video conferencing endpoint solution to Government Organization/PSU/Private Organization/Cooperatives during last 03 (three) years. (Submit self- attested document)
3. The bidder should have turnover of not less than 2 Crores during last three financial continuously per years and must submit a self-attested photocopy of the CA Certified Turn Over Certificate of last three years as a proof of stated annual turnover.
4. **The bidder should have local registered office in Jharkhand for minimum past 5 years (Certificate of Incorporation to be Enclosed)**
5. Bidder must submit a copy of PAN Card.
6. Bidder must not have been blacklisted by any PSU's/ Central or State Government /University /Court of Law. as on date of Bid-Submission (Submit Affidavit)
7. The bidder must quote *all items* of requirement list & must have capability of executing entire work on Turnkey Basis. (Tender will be evaluated on turnkey basis only)
8. The Bidder should have GST Registration and should submit the latest GST return copy. (Submit self- attested documents). Registration in Jharkhand is Preferred.
9. The Bidder should be registered with GST. (Submit self- attested documents).





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3. Terms & Conditions:

1. 'Sealed tenders/ offers may be submitted to the undersigned on or before **09 Oct 2021 by 17:30 hrs.** in a sealed cover super-scribing clearly with **“TENDER FOR SUPPLY, INSTALLATION & COMMISSIONING OF VIDEO CONFERENCING SYSTEM”**.

Jharkhand State Cooperative Milk Producers' Federation Ltd. Medha Dairy Plant, Beside Birsa Munda Central Jail, Hotwar, Ranchi – 835217 (Jharkhand), India.

2. The tenderer/ party interested, shall fill their complete profile in the attached **Annexure - I**.
3. The detailed Technical Specification are enclosed as **Annexure - II**.
4. The Tenderer should quote for the job/ items in the prescribed format mention enclosed as **Annexure-III**.
5. Each bidder shall submit only one quotation. Bidder shall not contact other Bidders in matters relating to this Quotation.
6. The bidder has to submit the quotation strictly as per our tender enquiry specification and terms and conditions only.
7. The Tenderer must quote for the items requested inclusive of all taxes and duties and other levies payable on the materials and components shall be included in the total price and it should be FOR destination.
8. The rates quoted by the Tenderer shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
9. Normal commercial warranty/ guarantee of shall be applicable to the supplied goods.
10. GST, Packing & Forwarding, Freight, Insurance and other incidental charges shall be shown separately.
11. The Prices shall be quoted in Indian Rupees only.
12. The Tenderer/ bidder should put his initial on all pages of the tender document. The conditions mentioned in different parts of the tender documents are co-related and explanatory to each other. If any of the points are found contradictory, JMF decision will be final and bidding.
13. For ready reference, we are providing standard quotation format for quoting the price. Please quote your price in attached format given at Annex-II only.
14. **Consignee/Delivery Address:** Medha Dairy Plant (A unit of Jharkhand Milk Federation), Beside Birsa Munda Central Jail, Hotwar, Ranchi, Jharkhand
15. **Replacement:** If the Material is rejected for any reason the supplier has to replace the material at firms own cost and risk from our Mint and again supply the material as per our requirement.
16. **Period on Validity of Bids:** - Bids shall remain valid for 120 days after the date of bid opening prescribed by JMF, Ranchi. A bid valid for a shorter period shall be rejected as non-responsive.
17. **Payment Terms:** -90% within 30 days from the date of receipt of materials/ services and its acceptance and balance 10% after one year from the date satisfactory Commissioning and performance trial. However, this can be released along with 90% payment against submission of a Performance bank guarantee for 10 % value valid for one year from the date of Commissioning.
18. The payments shall be made through NEFT/RTGS and all payments shall be made in Indian Rupees only.



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19. **Penalty:** Penalty @ 0.5 % of the order value / week shall be imposed for delay in execution beyond the time frame.
20. **Registration of Goods:** If require under the Applicable Law, goods supplied under the contract shall be registered for use in India.
21. **Patent Rights:** The supplier shall indemnify the Purchaser against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.
22. The supplier shall be providing all the necessary input/output strings/ technical details for all the equipment supplied.
23. **Packing:** The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Purchase Order.
24. **Delivery Time:** The items shall be supplied within 60 days from the date of acceptance of the order and details given in the Requirement Details under the Eligibility Section.
25. It is mandatory on the part of the bidder to install / commission the Video Conferencing System and take successful trials with the existing infrastructure within 30 days from the date of supply.
26. **Earnest Money:**
 - a. The bidder shall pay Bid Security (EMD) of **Rs 10,000/-** (Rupees Ten thousand only) along with the technical bid by Demand Draft in favor of “**JHARKHAND STATE COOPERATIVE MILK PRODUCERS' FEDERATION LTD**” drawn on any Nationalized Bank and payable at RANCHI. Bids received without Earnest Money deposit (EMD) shall stand rejected and thus shall not be considered for evaluation etc at any stage.
 - b. The bid security (EMD) without interest shall be returned to the unsuccessful bidders after finalization of contract.
 - c. The EMD deposited by successful agency will be adjusted towards Security deposit as demanded above. If the successful bidder fails to furnish the difference amount between Security Deposit and EMD within 30 (Thirty) days after the issue of Letter of Award of Work, his bid security (EMD) shall be forfeited unless time extension has been granted by “PURCHASER”.
 - d. The EMD shall be forfeited if successful bidder fails to undertake the work or fails to comply with any of the terms and conditions of the contract.
 - e. If the Bidder fails to comply with any of the terms, conditions or requirement of order and the technical specifications as indicated in the Tender document, the Earnest Money deposited by the Bidder will be forfeited.
 - f. Security Deposit will be forfeited in the event of failure by the Supplier to deliver the materials as per the schedule and the JMF may also go for risk purchase at Supplier's cost in the event of such failure and the differential cost, if any, may be recovered from the supplier's pending bill.
 - g. The Security amount of the successful bidders will be refunded within 30 days of receipt of request letter from the supplier after completion of delivery as per contract/ purchase order. Similarly, the EMD of the unsuccessful bidder will be refunded within 30 days of the completion of the tender process on their request.
27. All disputes or differences arises shall be subject to the exclusive jurisdiction of court within the limit of Ranchi.
28. JMF reserves the right to accept or reject any or all the offers without assigning any reason thereof. Managing Director, JMF shall be Arbitrator in case of any disputes and his decision will be final and binding on both the parties. For all legal matters & dispute Ranchi court



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shall be our Jurisdiction. Any money found recoverable shall be recovered under the public Demand Recovery Act without prejudice to any other mode of recovery.

29. **Validity of Quotation:** Quotation shall remain valid for a period not less than 90 days after the deadline date specified for submission.
30. **Award of contract:** The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.
31. **Force Majeure:** If the selected bidder is prevented from performing any of its services under the Contract Agreement due to causes such as fire, Acts of God, or elements, embargoes, governmental orders, the selected bidder shall be excused from the non-performance of its obligations during the period that such cause continues to exist, but if such cause continues to exist and prevents performance by the selected bidder of its obligations for more than 60 days, JMF may terminate the Contract Agreement in whole or part thereof effective upon delivery to the selected bidder of written notice of such termination. Upon termination of the Contract Agreement under this Section, the provisions regarding consequences of cancellation set out in this Tender here in before shall apply.
32. **Arbitration:** Any dispute, claim or difference relating to or arising out of this contract/supply order shall be referred for arbitration to the Managing Director, The Jharkhand State Coop Milk Producers' Federation Ltd and the decision so taken by the arbitrator shall be final and binding on all concerned. Where the matter involves claim of any amount that is awarded in such arbitration, the same shall be recoverable from the bidder out of dues pending/ Security Money/ an order of the civil court.
33. **Acquaintance with all conditions:** The bidder should acknowledge that they have made themselves fully acquainted with all the conditions and circumstances under which the supplies required under the contract will have to be made or furnished and with all the terms, clauses, conditions, specifications and other details of the contract and the bidder shall not plead ignorance of any of those as excuse in case of complaint against or on rejection of supplies tendered by them or with a view either to asking for encashment of any rates agreed to in the contract or to evading any of their obligations under the contract.

4. OTHER TERMS OF CONTRACT

1. **Quote:** The bidders shall quote in Indian Rupees and the quoted price shall be inclusive of all taxes, duties, statutory levies, supplying, installing, commissioning, freight & forwarding. Any changes in the quoted price are not allowed after the submission of the bid.
2. **Licenses:** All licenses should be in the name of the “The Jharkhand State Cooperative Milk Producers' Federation Ltd, Ranchi, Jharkhand”.
3. **Unresponsive Bids:** Bids with incomplete documentation may be treated as non-responsive and summarily be rejected. Bidders are hereby directed to ensure that all documentation/supporting documentation including documentary evidences in support of qualification criteria, testimonials etc., are complete and submitted as part of the Bid.
4. **Technical Manuals:** All equipment will have to be supplied with all the detailed operational & maintenance manuals at free of cost.



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ANNEXURE- I

No	Details		
1	Name of Vendor/ Tenderer		
2	Address of Registered Office		
3	Address of Factory/ Works		
4	Name of Contact Person		
5	Contact Nos.		
6	Type of Firm: Ltd Co/ Pvt. Ltd. / Partnership/ Proprietor		
7	Nature of Firm: Manufacturer/ Traders / Author. Dist. / Dealer		
8	Year of Establishment		
9	Name of Product, you Deal		
	Please, Specify in separate sheet (As per below Format)		
	S. No	Item Description (Shortly)	Make/Brand
10	G.S.T. No & Reg. Date		
11	PAN No & Date		
12	Turn Over Of last 3 Year (Rs.)		
13	If You have maintained any quality standard (Pl. Specify)		
14	Name of Clients (If required, Pl. Specify in separate sheet)		
15	Min. Lead Time Required (Days)		
16	Bank Details		
17	Documents to Be Attached		
Recommendation:			
Seal & Sign. Of Vendor			



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ANNEXURE- III TECHNICAL SPECIFICATION & SCOPE OF WORK

Sl. No.	Description	Qty
1	Codec Plus + PTZ Camera + Control Unit with 03 Years of onsite warranty	1 Set
2	3 Nos. Table top Microphones with 03 Years of onsite warranty	3 Set
3	Professional Display LFD 65 Inch (Diagonally) with 03 Years of onsite warranty	
4	Compatible Software Licenses for 1 year, which can connect 1000 attendees in a meeting with at least 10GB storage total for 01 Hosts. With Administrator sites to usage dashboard, call detailed records	1 Nos.
5	Installation & Commissioning One Time	1 No.

Technical Specification

Technical Specification for Video Conferencing Unit		
Features	Specifications	Compliance (Yes/No/Deviation in case any)
Video Standards	Latest video standards H.264, H.265	
Video Frame Rate	Should support 60 fps with 1080p resolution.	
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 pair with laptop for sending content without any wires to the VC system.	
Video Input	In case the above feature is not available natively, then additional components can be provided to achieve this.	
	Should have at least 1 x HDMI inputs to connect Full HD cameras.	
	Must have 2 additional HDMI inputs to connect two laptops/PC for presentations. All inputs should support 1080p60	
	Should support the ability to view and share presentations at a resolution of 1080p30	



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	The system must have the ability to pair with laptop for sending content without any wires to the VC system	
Video Output	Should have at least 2 no.'s of HDMI output to connect Full High-Definition display devices such as plasma and projectors for both Video and Content. (Dual Monitor Support).	
	When not in a VC call, it should be possible to view presentation from two laptops on each of the screen so that users can collaborate.	
Audio standards supported	G.711, G.722, G.722.1, 64 kbps MPEG-4 AAC-LD standard must be supported.	
Other Desirable Audion features	Noise Reduction, Automatic Gain control, Acoustic Echo Canceller, Active Lip synchronization	
Audio Inputs	Should support 3 Microphone inputs to connect 3 microphones. 3 Mic should be provided day one.	
	The pickup of the microphones should be at least 10 feet from the microphone.	
	Echo Cancellation for every input must be available.	
Audio Outputs	Should support audio output	
Network Interfaces	1 LAN /Ethernet--10/100/1000 Mbps full duplex, Wi-Fi 802.11a/b/g/n/ac	
Bandwidth	H323/SIP up to 6 Mbps point-to-point.	
Network Capabilities	Packet Loss Based Down speeding	
H.323/ IP Features	QoS—DiffServe	
	IP adaptive bandwidth management (including flow control)	
	Auto Gatekeeper discovery	
	Auto Network Address Translation (NAT) support	
	Standards based- Packet Loss Recovery feature	
	System should support IPv4 and IPv6 from day one.	
	Should support URL Dialing	
Menu Control	Support for H.245 DTMF tones in H.323	
Encryption of video call	Password protected system menu	
	ITU-T standards-based Encryption of the video call	



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	Call should be encrypted end-to-end on IP	
	Should support Standards-based: H.235 v3 and AES Encryption via Automatic key generation and 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 key generation and exchange	
Management	System Management using HTTPS and SSH	
Camera	Minimum of 10x optical zoom, Minimum of 2 x digital zoom	
	1920 x 1080 pixels progressive @ 60fps	
	Each camera should have minimum +15°/-25° tilt, +/- 90° pan	
	The Camera and codec should be from the same manufacturer.	
	Should have at least 72 degrees or higher static field of view.	
Directory services	Should support Local and Global directories	
	Should support LDAP and H.350 protocols for directory transfer.	
Multipoint Capability	Should support built-in multiconference capability to connect at least 1+3 sites at 720p30fps in a continuous presence mode.	
	All sites must be visible in a continuous presence mode with rate matching and transcoding such that different sites may connect at different speeds and protocols and still maintain a resolution of at least 720p	
User Interface	In order to provide a good user experience, the unit must be equipped with an intuitive Touch Screen/Panel for controlling the VC unit.	
	Must have ability to browse the directory, search a contact, change layouts, mute/unmute, increase-decrease volume.	
	The user should have the ability to select between two presentation sources such as a fixed PC and a laptop from the user interface. Users should also have the ability to share presentation wirelessly.	



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	Must have the capability to integrate with external control systems to control Blinds, Lights, air conditioning using the API's. The User interface must have the necessary icons for controlling the external devices	
Inclusions	System should be supplied with 2 Nos of HDMI Cables for connecting displays, Camera Mounting Bracket	
USB Passthrough	It should be possible to connect the Codec (directly or via external device) to a PC/Laptop and Make use of Camera, Mic and Display to work with any Soft Client applications such as Webex, Zoom, MS Teams, Vidyio etc.	



Technical Specification for Video Conference Software:

Features	Specifications	Compliance (Yes/No/Deviation)
General Specification	Proposed solution should be Cloud-based Audio / Video / Web conferencing services	
	Solution should be Opex based / Subscription licensing model	
	Should allow to have capability to distribute participants in small virtual room during meeting for discussion and revert them back to the main meeting while needed.	
Users	The Solution provided should be simple, secure collaboration and scalable.	
	Support for up to 1,000 concurrent users in a single meeting:	
	Up to 75 SIP or H.323 video conferencing screens or clients	
	Up to 500 additional Meeting's video participants	
	Up to 1,000 additional Audio-only users	
	• Simply dial a video address, e.g., <meeting_number>@<site_name>. cloudsolution.com	
	• Alternatively, use an IP address and enter the meeting number	
• Additional support for Skype for Business (SfB) and Lync users, e.g., <meeting_number>.<site_name>@lync.cloudsolution.com		
• Video IVR with visual cues for a more intuitive join experience		
• Click-to-join from invitations		



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Desktop, Mobile and Browser Apps	<ul style="list-style-type: none"> • Enter meeting number for ad-hoc join 		
	<ul style="list-style-type: none"> • Use your computer or a telephone for audio • Or, have the cloud call your SIP based video system for full audio, video, content share experience 		
IVR Interaction, In-Meeting Controls and Indicators	Video Systems		
	<ul style="list-style-type: none"> • <u>In-meeting controls using Dual-Tone Multi-Frequency (DTMF) controls</u> <ul style="list-style-type: none"> o Mute and unmute self o Mute and unmute all (host) o Lock/unlock meeting (host) o Record meeting (host) o Change own video layout 		
	<ul style="list-style-type: none"> • <u>SIP video systems require at least one of the following capabilities:</u> <ul style="list-style-type: none"> o RFC 2833 RTP Payload Type o In-band DTMF audio tones o Key Press Mark-up Language (KPML) 		
	<ul style="list-style-type: none"> • <u>H.323 video systems require at least one of the following capabilities:</u> <ul style="list-style-type: none"> o H.245 User Input Indicator o RFC 2833 RTP Payload Type o In-band DTMF audio tones 		
	<ul style="list-style-type: none"> • Users on video systems that cannot negotiate DTMF will only be able to join a meeting after the host starts it • Recording status indicator • Audio line mute state change prompts 		
	Desktop, Mobile and Browser Applications		
	<ul style="list-style-type: none"> • Full participant list • Recording status indicator • Meeting lock status indicator • Mute/unmute audio of participants (host) • Expel participant from meeting (host) • Lock/unlock meeting (host) • Record meeting (host) • Transfer host role to another participant (host) 		
	Video Quality	<ul style="list-style-type: none"> • Main video at up to 720p at 30 frames per second (fps) • Main video at up to 1080p at 30 fps when connected to on-prem hybrid solution • Content sharing up to 1920x1200 at 3 fps 	
		Video Aspect Ratios	
		<ul style="list-style-type: none"> • 16:9 widescreen • 4:3 standard 	
		Video Codec Support	
		<ul style="list-style-type: none"> • H.261 • H.263 • H.263+ • H.264 AVC 	



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	<ul style="list-style-type: none"> • H.263 (CIF) or H.264 UC (720p/30) for Skype for Business and Lync clients 		
Audio	Audio Codec Support for Video Systems		
	<ul style="list-style-type: none"> • G.711 (m-law and a-law) • MPEG-4 AAC-LD • Opus • G.722 • G.728 • G.722.1 • G.729 (with and without Annex B) • MPEG-4 AAC-LC (TIP calls only) 		
	Audio Codec Support for Applications		
	<ul style="list-style-type: none"> • Opus • Internet Low Bitrate Codec (iLBC) • G.722 		
	Audio Integration Options for Applications		
	<ul style="list-style-type: none"> • Cloud integrated audio (telephone and VoIP) • Cloud Connected Audio 		
	Audio Access Methods for Applications		
	<ul style="list-style-type: none"> • Call-in (dial into the meeting) • Call-back (meeting calls you) and video call-back • VoIP (use your computer microphone and speakers or your smartphone data connection) 		
	SIP Video Systems	Advanced Encryption Standard (AES) 128-bit encryption	
		Signaling protocol support: SIP, SIP Transport Layer Security (TLSv1.2), Binary Floor Control Protocol (BFCP)	
		Media protocol support: Real-Time Transfer Protocol (RTP), Secure RTP (sRTP), and Real-Time Control Protocol (RTCP)	
		Content share (dual video) protocol support: BFCP	
	H.323 Video Systems	ITU-T H.323 standards-based video systems	
		AES 128-bit encryption	
		Signaling protocol support: H.323, H.323 with H.235, H.225.0, and H.245	
Media protocol support: RTP, sRTP, and RTCP			
Content (dual video) share protocol support: H.239			
Annex-O dialing: Ability for standalone H.323 video systems not registered to a gatekeeper to dial and join meetings			
Security	AES 128-bit encryption		
	PIN-protected access into personal rooms from video systems		
	Meeting lock and unlock for added privacy		
	Authenticated access into meetings on desktop and mobile apps		
	SIP TLSv1.2 and H.235 for signaling security		
	sRTP for media security		
	Data at rest encryption for recordings in Cloud data centers		



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Technical Specification for Display Unit		Compliance (Yes/No/Deviation)
1	Diagonal Size	65 Inch or above
2	Panel Technology	SVA
3	Resolution	3840*2160
4	Brightness (Typ.)	500 Nits or higher
5	Static Contrast Ratio (Typ)	4000:1
6	Haze	25%
7	Operational Hour	24*7
8	Connectivity Input	HDMI 2.0 (2),DVI-D,DP
		Audio input- Stereo Mini Jack
9	Connectivity Output	HDMI 2.0 (Loop-out)
		Audio out- Stereo Mini Jack
10	External Control	RS232C(in/out) , RJ45
11	Power Supply	AC 100 - 240 V~ (+/- 10 %), 50/60 Hz
12	Power consumption (Typ)	131 or less
13	Certification	Safety 60950-1
		EMC- Class B,UL,CE,BIS
14	Warranty	3 yrs. onsite
15	OEM MAF	Bid Specific OEM MAF





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ANNEXURE- III (COMMERCIAL BID)

Bidder's Qtn. Ref:

Date:/...../2021

Sl. No.	Item Description	HSN Code	UOM	Qty.	Ex Rate/ Unit (Rs.)	Total Amt. (Rs.)
1	Codec Plus + PTZ Camera + Control Unit (With 3 Year of onsite warranty)		Nos	01		
2	Table Top Microphone (With 3 Year of onsite warranty)		Nos	03		
3	Professional Display LFD 65 Inch (With 3 Year of onsite warranty)		Nos	01		
4	Installation Charges		Job	01		
5	Software Licenses (for One-year subscription)		Nos	01		
Subtotal 1:						
P & F:						
Freight Charges:						
Insurance%:						
Subtotal 2:						
GST: _____ %						
Total Landed Cost:						

*The total rate should include GST, P&F, Freight/transport, Insurance etc. delivered at Site.

I / We hereby declare that the information furnished above are true and correct.

We agree to supply the above goods /materials in accordance with the scope and technical specifications mentioned above.

We also confirm that the normal commercial warrantee/guarantee of months shall apply to the offered goods.

Date:

Place:

Tenderer Signature & Seal

Name:

Designation: