



**Maharashtra  
Tenders**

**eProcurement System Government of Maharashtra**

**Tender Details**

Date : 11-Jun-2026 04:13 PM

Print

**Basic Details**

<b>Organisation Chain</b>	Director of Technical Education Department Mumbai  Veermata Jijabai Technological Institute Mumbai		
<b>Tender Reference Number</b>	VJTI/STR/TPO/2026-27/67		
<b>Tender ID</b>	2026_DTEDM_1308009_1	<b>Withdrawal Allowed</b>	Yes
<b>Tender Type</b>	Open Tender	<b>Form of contract</b>	Item Wise
<b>Tender Category</b>	Goods	<b>No. of Covers</b>	2
<b>General Technical Evaluation Allowed</b>	No	<b>ItemWise Technical Evaluation Allowed</b>	No
<b>Payment Mode</b>	Online	<b>Is Multi Currency Allowed For BOQ</b>	No
<b>Is Multi Currency Allowed For Fee</b>	No	<b>Allow Two Stage Bidding</b>	No

**Payment Instruments**

Online Bankers	S.No	Bank Name
	1	SBI Bank

**Cover Details, No. Of Covers - 2**

Cover No	Cover	Document Type	Description
1	Fee/PreQual/Technical	.pdf	Tender Document
2	Finance	.xls	BoQ

**Tender Fee Details, [Total Fee in ₹ \* - 7,580]**

<b>Tender Fee in ₹</b>	7,080		
<b>Processing Fee in ₹</b>	500		
<b>Fee Payable To</b>	Nil	<b>Fee Payable At</b>	Nil
<b>Tender Fee Exemption Allowed</b>	No		

**EMD Fee Details**

<b>EMD Amount in ₹</b>	1,00,000	<b>EMD Exemption Allowed</b>	Yes
<b>EMD Fee Type</b>	fixed	<b>EMD Percentage</b>	NA
<b>EMD Payable To</b>	Nil	<b>EMD Payable At</b>	Nil

**Work /Item(s)**

<b>Title</b>	Supply, Installation, Testing and Commissioning of Audio-Visual Video Conferencing System, Network Infrastructure and CCTV Surveillance System for the Training and Placement Office at VJTI				
<b>Work Description</b>	Supply, Installation, Testing and Commissioning of Audio-Visual Video Conferencing System, Network Infrastructure and CCTV Surveillance System for the Training and Placement Office at VJTI				
<b>Pre Qualification Details</b>	Please refer Tender documents.				
<b>Independent External Monitor/Remarks</b>	NA				
<b>Tender Value in ₹</b>	NA	<b>Product Category</b>	Electronics Equipment	<b>Sub category</b>	NA
<b>Contract Type</b>	Tender	<b>Bid Validity(Days)</b>	90	<b>Period Of Work(Days)</b>	30
<b>Location</b>	TPO Office VJTI	<b>Pincode</b>	400019	<b>Pre Bid Meeting Place</b>	TPO Office Mechanical Building VJTI Mumbai
<b>Pre Bid Meeting Address</b>	TPO Office Mechanical Building VJTI Matunga East Mumbai 400019	<b>Pre Bid Meeting Date</b>	17-Jun-2026 11:00 AM	<b>Bid Opening Place</b>	Stores and Purchase Section
<b>Should Allow NDA Tender</b>	No	<b>Allow Preferential Bidder</b>	No		

**Critical Dates**

<b>Publish Date</b>	11-Jun-2026 04:00 PM	<b>Bid Opening Date</b>	29-Jun-2026 03:00 PM
<b>Document Download / Sale Start Date</b>	11-Jun-2026 04:00 PM	<b>Document Download / Sale End Date</b>	25-Jun-2026 09:00 AM
<b>Clarification Start Date</b>	NA	<b>Clarification End Date</b>	NA
<b>Bid Submission Start Date</b>	11-Jun-2026 04:00 PM	<b>Bid Submission End Date</b>	25-Jun-2026 09:00 AM

**Tender Documents**

<b>NIT Document</b>	<b>S.No</b>	<b>Document Name</b>	<b>Description</b>	<b>Document Size (in KB)</b>
	1	Tendernotice_1.pdf	Tender document	1156.79

<b>Work Item Documents</b>	<b>S.No</b>	<b>Document Type</b>	<b>Document Name</b>	<b>Description</b>	<b>Document Size (in KB)</b>
	1	BOQ	BOQ_2244343.xls	BoQ	307.00

**Tender Inviting Authority**

<b>Name</b>	Registrar
<b>Address</b>	Registrar Office VJTI Matunga East Mumbai 400019



**Veermata Jijabai Technological Institute**  
(Autonomous Institute of Govt. of Maharashtra)  
H R Mahajani Marg, Matunga, Mumbai – 400019

**E-Tender Reference No: - VJTI/TPO/2026-27/Tender/01**

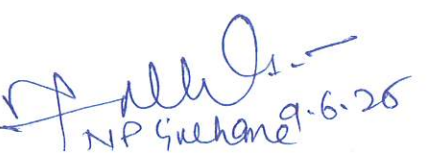
**Name of the Work: - "Supply, Installation, Testing and Commissioning of Audio-Visual, Video Conferencing System, Network Infrastructure and CCTV Surveillance System for the Training and Placement Office at Veermata Jijabai Technological Institute, Mumbai"**

  
Head of Department  
(TPO) 8/6/26

  
Registrar  
11/06/26

(Standard Bid Document)

- Website: 1. <https://mahatenders.gov.in/nicgep/app>  
2. [www.vjti.ac.in/tenders](http://www.vjti.ac.in/tenders)

Tender Prepared by : Dr NP Gulhane and  
The tender is verified by committee members   
NP Gulhane 9.6.26

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**SECTION - 1**  
**E-TENDER NOTICE**

**e-Tender Notice**

**E-Tender Reference No: - VJTI/TPO/2026-27/Tender/01**

**SUBJECT: -Supply, Installation, Testing and Commissioning of Audio-Visual, CCTV and Network System, Video Conferencing System, Network Infrastructure and CCTV Surveillance System for the Training and Placement Office at Veermata Jijabai Technological Institute, Mumbai**

- i) The detailed tender documents are available for download from the e-tendering website <https://mahatenders.gov.in>. Bidders are required to download the tender, fill in all necessary details, and upload duly signed scanned copies of the documents as per instructions.

**E-Tendering Process**

- I. The application form can be download from NICs' portal (<https://mahatender.gov.in>)
- II. The forms of tender documents are available on the e-Tendering website <https://mahatender.gov.in>. The aspiring Applicants will have to download Tender form, from the website mentioned above. The bidder has to fill in an online format and upload information regarding Tender online. Also, the bidder has to download the tender application from the website, fill it and upload the scanned copy of duly filled form, along with required documents.
- III. For purchasing the Tender documents, the bidders will have to get registered with e-tender portal (<https://mahatenders.gov.in>) for the e-tendering process and obtain login credentials to participate in the online Tender process. The details of the same are available on <https://mahatender.gov.in>. For registration, enrolment for digital signature certificate and user manual, please refer to respective links provided in e-tendering tab on <https://mahatender.gov.in>

ii)

Name and Location of Work	Supply, Installation, Testing and Commissioning of Audio-Visual, Video Conferencing System, Network Infrastructure and CCTV Surveillance System for the Training and Placement Office at Veermata Jijabai Technological Institute H R Mahajani Marg, Matunga, Mumbai - 400019
Site Survey Period	17-06-2026
Pre-Bid Meeting date	17-06-2026
Tender Submission and Closing Date	11-06-2026 To 25-06-2026

### **Two-packet Bid System: -**

- I. Tender documents are invited in two packet bid system for the above work
  - a. Packet '1': Prequalification of the vendors (Technical Bid)
  - b. Packet '2': Bill of Quantities (Financial Bid)
- II. The bidders are requested to submit the tender documents in two packet bid system only i.e. Technical Bid in attachment of packet '1' & Financial Bid in attachment of packet '2'.
- III. Bidders should note that the Technical Bid (i.e. Packet '1') will be opened first, and the Financial Bid (i.e. packet '2') will be opened only for qualified bidders.

### **Tender Fees & EMD**

- I. Tender fee is ₹ 6000 + GST 18% (₹ 1080) = ₹ 7,080/- is to be paid online.
- II. EMD for the tender is ₹ 1,00,000/- (INR One Lakh Only) and to be paid online.

### **Right to Reject**

The Director, VJTI, reserves the right to accept or reject any or all tenders without assigning any reason.

The date and time for submission and opening the bids are as shown in the Header Data. If there are any changes in the dates the same will be displayed on the NIC Portal (<https://mahatenders.gov.in>)

The Applicants interested in the above referred work may contact the Head of Department (IT Infra) at the following address on any working day during office hours.

Head of Department  
Training and Placement Office  
Email- [tpo@vjti.ac.in](mailto:tpo@vjti.ac.in)  
VJTI, H. R. Mahajani Marg,  
Mumbai - 400019.

**SECTION - 2**  
**INSTRUCTIONS TO BIDDERS**

### 1. Eligibility Criteria:

- Bidders must meet the eligibility criteria outlined in **Section 4**. Non-compliant bids will be rejected.
- Financial Bids of only technically qualified bidders will be opened.

### 2. Bid Submission:

- Submit bids online via <https://mahatenders.gov.in> in the two-packet system:
  - **Packet 1 (Technical Bid):** Upload scanned, certified copies of required documents (listed below).
  - **Packet 2 (Financial Bid):** Complete the financial proposal online, ensuring all entries are digitally signed.
- VJTI will reject bids that do not include tender fee or EMD.

### 3. Technical Bid (Packet 1) Requirements:

- Valid Firm Registration Certificates (PF and ESIC).
- GST Registration Certificate.
- Partnership Deed (for partnership firms) or Incorporation Certificate and MOA/AOA (for companies).
- Income Tax Returns for the last three financial years (2022-23, 2023-24, 2024-25).
- Screenshot of tender fee payment (₹ 7,080/-).
- Screenshot of EMD payment (₹ 1,00,000/-).
- Site visit acknowledgment issued by VJTI.
- Email ID along with bidder's name and contact details superscripted on Packet 1 for communication.
- **Note:** If documents are missing, VJTI will notify the bidder via email, and compliance must be provided within **three working days**, or the bid will be rejected.

### 4. Financial Bid (Packet 2):

- Submit the financial bid online, including the total bid price (inclusive of all costs except GST).
- Financial Bids will be opened only for technically qualified bidders, with the date communicated separately.

**5. Bid Validity:**

- Bids must remain valid for 90 days from the bid submission deadline. Shorter validity periods will result in rejection.

**6. Site Visit and Pre-Bid Meeting:**

- Bidders must conduct a site visit 17<sup>th</sup> June 2026 and to understand site conditions.
- The Pre-Bid Meeting is scheduled for 17<sup>th</sup> June 2026 at TPO Office VJTI.
- The same authorized representative (with experience in similar projects) must attend both the site visit and pre-bid meeting. Upload the site visit acknowledgment in Packet 1.
- Failure to conduct a site visit will result in bid rejection.

**7. Pricing:**

- Quote prices in INR, inclusive of all charges (e.g., installation, freight, training) except GST, which must be specified separately.
- In case of discrepancies between unit and total prices, the unit price prevails. If there is a discrepancy between figures and words, the lower amount applies.

**8. Security Deposit:**

- The successful bidder must submit a **5% security deposit of the contract value, valid for 38 months**.
- VJTI may forfeit the security deposit or EMD for non-compliance or misleading information.

**9. Bid Evaluation:**

- **Technical Evaluation:** Assess compliance with **Section-4** specifications and eligibility criteria.
- **Financial Evaluation:** Evaluate the total bid price (inclusive of all taxes and charges) of technically qualified bidders.
- The contract will be awarded to the bidder with the lowest evaluated total bid price, subject to technical compliance.

**10. No Canvassing:**

- Any canvassing by bidders will result in bid rejection.

**SECTION - 3**  
**TERMS AND CONDITION OF CONTRACT**

**SECTION 3**  
**TERMS & CONDITIONS OF CONTRACT**

SR. NO.	TERMS & CONDITIONS
1.	Bidders must conduct a site survey 17 <sup>th</sup> June 2026 and submit recommendations on system architecture in the Technical Bid.
2.	<ul style="list-style-type: none"> <li>• Supply, install, test, and commission all the Systems at the VJTI TPO as per Section 4 specifications.</li> <li>• Deliver and maintain all equipment, including necessary licenses registered in the name of VJTI, Matunga, Mumbai.</li> </ul>
3.	<p><b>Warranty:</b></p> <ol style="list-style-type: none"> <li>1. <ul style="list-style-type: none"> <li>○ <b>Duration:</b> 3 years from the date of successful installation.</li> <li>○ <b>Scope:</b> Comprehensive maintenance, including labour, spare parts, system software updates, and OS patching for all supplied hardware and peripherals.</li> <li>○ <b>Manufacturer's Warranty:</b> The bidder must ensure the validity of the manufacturer's warranty for all equipment, covering defects in design, materials, or workmanship.</li> <li>○ <b>Third-Party Components:</b> Warranty remains valid unless third-party hardware installed by VJTI damages the supplied equipment.</li> </ul> </li> <li>2. <b>Timeline:</b> <ul style="list-style-type: none"> <li>○ Complete supply, installation, testing, and commissioning within 30 days from the purchase order date. Delays may incur penalties as per the SLA.</li> </ul> </li> <li>3. <b>Maintenance:</b> <ul style="list-style-type: none"> <li>○ The bidder must provide routine and breakdown maintenance during the warranty period, resolving issues within 48 hours of a complaint.</li> <li>○ Complaints must be lodged via authorized VJTI email or portal. Unauthorized requests (e.g., password resets) must be reported as security breaches to VJTI immediately.</li> </ul> </li> <li>4. <b>Payment Terms:</b> <ul style="list-style-type: none"> <li>○ <b>Payment:</b> 100% within 30 days of satisfactory installation, testing, commissioning, and submission of a performance certificate signed by VJTI representatives.</li> <li>○ <b>Security Deposit:</b> 5% of the contract value, valid for 38 months, subject to forfeiture for non-compliance.</li> <li>○ All payments are subject to applicable tax deductions.</li> </ul> </li> <li>5. <b>Training and Documentation:</b> <ul style="list-style-type: none"> <li>○ Provide 2 days of on-site training for at least 5 VJTI staff members on system operation, management, and troubleshooting within 15 days of commissioning.</li> <li>○ Supply detailed user manuals, technical documentation, and system architecture diagrams in hard and soft copies at handover.</li> </ul> </li> </ol>
4.	<p><b>GST and Taxes:</b></p> <ul style="list-style-type: none"> <li>• Quote prices exclusive of GST, which must be specified separately.</li> <li>• Pass on the benefit of Input Tax Credit or exemptions to VJTI through equivalent price reductions.</li> </ul>
5.	<b>Confidentiality:</b>

	<ul style="list-style-type: none"> <li>Bidders must maintain confidentiality of all VJTI data and use it solely for this contract.</li> </ul>
6.	<b>Force Majeure:</b> <ul style="list-style-type: none"> <li>Neither party is liable for failure to perform due to events beyond reasonable control (e.g., natural disasters, war, government restrictions).</li> </ul>
7.	<b>Dispute Resolution:</b> <ol style="list-style-type: none"> <li>Disputes will be resolved through arbitration under the Indian Arbitration and Conciliation Act, 1996.</li> <li>Jurisdiction: Courts in Mumbai.</li> </ol>
8.	<b>Right to Amend:</b> <ol style="list-style-type: none"> <li>VJTI reserves the right to amend terms and conditions before contract award.</li> </ol>
9.	<b>Project Handover:</b> <ul style="list-style-type: none"> <li>Submit the following at completion: <ul style="list-style-type: none"> <li>Installation and Testing Reports.</li> <li>Warranty Certificates.</li> <li>Training Completion Certificates.</li> <li>User Manuals and System Documentation.</li> </ul> </li> <li>Final acceptance requires VJTI's written sign-off.</li> </ul>
10.	<b>Cybersecurity:</b> <ul style="list-style-type: none"> <li>Ensure all IP-based equipment (e.g., cameras, AV-IP encoders) complies with ISO 27001 standards, including encryption, secure firmware updates, and password protection.</li> </ul>

**SECTION - 4**  
**TECHNICAL SPECIFICATIONS & ESSENTIAL CONDITIONS TO BE FULFILLED**

**SECTION 4**

**TECHNICAL SPECIFICATIONS & ESSENTIAL CONDITIONS TO BE FULFILLED**

Bidders should clearly mention the offered product in the Bidder's Specifications column and attach the catalog/data sheet of the product. If the Bidder cannot comply with the particulars mentioned or wishes to provide higher specifications, the same should be mentioned clearly in Bidder's Specifications column. **If the Bidder's specification column is blank, it will be treated as an incomplete offer.**

**A. VIDEO EQUIPMENTS REQUIRED FOR THE SEMINAR HALL:**

Sr. No.1	Laser Projector QTY- 001, Proposed Make: - View sonic / Epson / Sony	
1	Projection System	3LCD (3x0.64" with MLA)
2	Native Resolution	1920x1200
3	Brightness	5200 (ANSI Lumens)
4	Brightness (Center Lumens)	6000
5	Contrast Ratio	3000000:1
6	Display Color	1.07 Billion Colors
7	Light Source Type	Laser Phosphor
8	Light Source Life (Normal Mode)	20000
9	Light Source Life (SuperEco Mode)	30000 (Eco)
10	Lens	F=1.58-2.02, f=15.3-24.6mm
11	Projection Offset	0% +/- 5%
12	Throw Ratio	1.08-1.76
13	Optical Zoom	1.6X
14	Digital Zoom	1.0x-4.0x
15	Image Size	30"-300"
16	Throw Distance	0.70-11.37m (100"@2.33m)
17	Keystone	H:+/-30°, V:+/-30°
18	Lens Shift V. Range	+45%, 0%
19	Audible Noise (Normal)	35dB
20	Audible Noise (Eco)	26dB
21	Input Lag	60ms
22	Resolution Support	VGA(640x480) to 4K(3840x2160@30Hz)
23	HDTV Compatibility	480i, 480p, 576i, 576p, 720p, 1080i, 1080p, 2160p@30Hz
24	Horizontal Frequency	15K-100KHz
25	Vertical Scan Rate	23-85Hz
26	Computer in (share with component)	1
27	Composite	1
28	HDMI	2 (HDMI 1.4/ HDCP 1.4)
29	Audio-in (3.5mm)	1
30	Audio-in (RCA R/L)	1
31	USB Type A	1 (5V/1.5A)
32	Monitor out	1
33	Audio-out (3.5mm)	1
34	Speaker	16W
35	USB Type A (Power)	1 (USB2.0 - 5V/1.5A, share with USB A Input)

36	RS232 (DB 9-pin male)	1
37	RJ45 (LAN control)	1
38	USB Type B (Services)	1
39	Power Supply Voltage	100-240V +/- 10%, 50/60Hz (AC in)
40	Power Consumption	Normal: 230W Standby: <0.5W
41	Operating Temperature	0~40°C

<b>Sr. No.</b> 2	<b>Ceiling Suspended Bracket</b> QTY:- 1Nos, Ceiling Mount Bracket for Projector
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<b>Sr. No.</b> 3	<b>Wireless Screen Casting Kit,</b> QTY- 001, Proposed Make: - Viewsonic / Screenbeam /Barco	
1	Output Resolution	Up to 1080p 60Hz
2	HDCP Support	HDCP 1.4
3	WiFi	5G
4	Latency	<80ms
5	Transmission Distance	Up to 30m
6	Screen Mirror/Extend	Yes
7	Connector Type	USB-C x 1
8	Power Input	5V/1A
9	Dimension (WxDxH)	170 x 40 x 16 mm
10	Net Weight	37.5g
11	Connector Type	HDMI x 1, USB-A x 1
12	Power Input	5V/0.5A

<b>Sr. No.</b> 4	<b>Tab Tension Screen</b> QTY- 001, Proposed Make: Milan / Grandlogic / Ramco	
1	Motor	Tubuler motor
2	A Screen Type	Tab Tension Screen
3	Surface	Matt White Height :- 74" Width :- 150"
4	Diagonal	150"
5	Black Drop	12"
6	Aspect Ratio	16:09

<b>Sr. No.</b> 5	<b>HDMI Extenders</b> QTY- 01, Proposed Make: - Lumi/ Chief/ B-Tech	
1	Distance	230 ft. (70 m) maximum
2	Power	Output: 12 VDC
3	Video Bandwidth	HDMI up to 10.2Gbps, including support for 1080p 60, Deep Color, HD-3D, 4Kx2K video, HD Audio Formats

4	Connectors	Transmitter: (1) HDMI Input; (1) RJ45 Output; (2) IR (1 in, 1 out); Receiver: (1) RJ45 Input; (1) HDMI Output; (2) 3.5-mm IR emitter Jacks (in/out)
5	Dimensions - Receiver	0.9-in. H x 3.1-in. W x 2.6-in. D (2.3 x 8 x 6.7-cm)
6	Dimensions - Transmitter	0.8-in. H x 3.1-in. W x 2-in. D (2 x 8 x 5-cm)
7	Weight - Receiver	0.6 lb. (0.3 kg)
8	Weight - Transmitter	0.4 lb. (0.2 kg)

## B. Audio System Equipment's:-

<b>Sr. No.</b> 6	<b>Wireless Handheld Microphone Set</b> QTY- 03, Proposed Make: - ATDSC / Bosch / AKG
1	SITC of Wireless Handheld and Collar Microphone Variable Frequency: A wireless Professional microphone for PA applications, Consists of One handheld & One Head worn/ Lapel microphones, High quality UHF band frequency dual Wireless Microphone System, Distance up to 100 feet (between Receiver and microphone), Individual channel output with level control & mix output. Display on Transmitter & Receiver for frequency indication, Two microphones can be used at the same time, Separate LCD Display for channels, High Quality capsule in Handheld. XLR Balanced and unbalanced outs. Miniature high Quality metal capsule in lapel. Plastic Flight Case . 300mA max at 48VDC
<b>Sr. No.</b> 7	<b>Wireless Lapel Microphone Set</b> QTY- 02, Proposed Make: - ATDSC / Bosch / AKG
1	SITC of Wireless Collar and Handheld Microphone. It should consist of 1 Receiver x 1 , Wireless Microphone Handheld x 2, Wireless Collar Microphone x 2 It should be UHF Band Frequency Dual Wireless Microphone System, it should have 80+ UHF selectable channels. It should support UHF Frequency Range: 583-683MHZ or more The received Front panel should consist of Power On/Off Switch x 1, Volume Controls x 4 To adjust the Input signal level, IR Sensor x1, It should have Channel Frequency set button x 1, It should have 4 Display to indicate channel frequency and status. The Rear panel should consist of 4 Antenna, 3 Pin XLR female connector x 1, 6.35mm x 1 unbalanced out, Power jack x 1, Handheld Microphone should have Grill x 1, IR Window x 1, LED Screen x 1 Power ON/OFF Switch x 1. Wireless Collar should have Body pack with Transmitter x 1, Mic Input x 1, Power On/Off Switch with LED Light, LED Screen x 1 for displays, Battery Compartment for 2, AA Batteries, Belt Clip x1, Collar Microphone x1

<b>Sr. No.</b> 8	<b>Ethernet Controller</b> QTY- 01, Proposed Make: - BSS / Bosch /Xilica
1	Power Consumption 300mA max at 48VDC
2	Recommended Ethernet Cable Wiring VW-1 Rated, 48VDC, 13W
3	Maximum Network Cable Length 328' / 99.98m

Sr. No.	Gooseneck Microphone Complete
9	QTY- 01, Proposed Make: - ATDSC / Bosch / AKG
1	<p>SITC of Wireless Collar and Handheld Microphone. It should consist of 1 Receiver x 1 , Wireless Microphone Handheld x 2, Wireless Collar Microphone x 2</p> <p>It should be UHF Band Frequency Duel Wireless Microphone System; it should have 80+ UHF selectable channels. It should support UHF Frequency Range: 583-683MHZ or more</p> <p>The received Front panel should consist of Power On/Off Switch x 1, Volume Controls x 4 To adjust the Input signal level, IR Sensor x1, It should have Channel Frequency set button x 1, It should have 4 Display to indicate channel frequency and status. The Rear panel should consist of 4 Antenna, 3 Pin XLR female connector x 1, 6.35mm x 1 unbalanced out, Power jack x 1, Handheld Microphone should have Grill x 1, IR Window x 1, LED Screen x 1 Power ON/OFF Switch x 1.</p> <p>Wireless Collar should have Body pack with Transmitter x 1, Mic Input x 1, Power On/Off Switch with LED Light, LED Screen x 1 for displays, Battery Compartment for 2, AA Batteries, Belt Clip x1, Collar Microphone x1</p>

Sr. No.	Mixing console
10	QTY- 01, Proposed Make: - Yamaha / Sound craft / Studio master
1	Frequency Response (Input to STEREO OUT) +0.5 dB / -0.5 dB (20 Hz to 20 kHz), refer to nominal output
2	Total Harmonic Distortion (THD+N) Input to 0.01% @ +8 dBu (20 Hz to 20 kHz), GAIN knob: Min; 0.003%
3	Hum & Noise Equivalent Input Noise: -128 dBu (Mono Input Channel, Rs:
4	Sensitivity (2.83V @ 1m) Residual Output Noise: -102 dBu (STEREO OUT, STEREO LEVEL
5	Crosstalk (1 kHz) -88 dB
6	Input Channels 6 channels: Mono (MIC/LINE): 2, Stereo (LINE): 2
7	Output Channels STEREO OUT: 2, PHONES: 1
8	Bus STEREO: 1
9	Mono Input Channel Function PAD: 26 dB
10	Minimum Impedance HPF: 80 Hz, 12 dB/oct
11	Transformer Taps EQ HIGH: Gain: +15 dB/-15 dB, Frequency: 10 kHz shelving
12	Transformer Insertion Loss EQ LOW: Gain: +15 dB/-15 dB, Frequency: 100 Hz shelving
13	PEAK LED LED turns on when post-EQ signal reaches 3 dB below clipping
14	Level Meter Post STEREO LEVEL knob, 2 x 7-segment LED meter [PEAK
15	Internal Digital Effect (MG06X) SPX Algorithm, 6 programs
16	Phantom Power Voltage +48 V
17	Power Supply Adaptor PA-130 (DC 12 V/1.0 A, 1.8 m cable), 120 V 60 Hz, or
18	Operating Temperature 0°C to +40°C

Sr. No.	Slim Column Loudspeaker
11	QTY- 02, Proposed Make: - JBL / QSC / Audac
1	Frequency Range (-10 dB) 70 Hz – 20 kHz
2	Frequency Response (+/-3 dB) 105 Hz – 20 kHz
3	Power Rating (8Ω setting) 160W Continuous Program (2 hrs)
4	Sensitivity (2.83V @ 1m) 86 dB

5	Coverage Pattern	Vertical 110° [1kHz-4 kHz average];
6	Directivity (Q)	7.8
7	Directivity Index (DI)	8.9 dB
8	Rated Maximum SPL	105 dB Continuous, 111 dB Peak @ 1m
9	Nominal Impedance	8Ω (in Thru/direct mode)
10	Minimum Impedance	7.0 Ω @ 275 Hz
11	Transformer Taps	20W, 10W, 5W @ both 70V & 100V (plus 2.5W @ 70V), and
12	Transformer Insertion Loss	Less than 1 dB
13	Maximum Input Voltage	21 V RMS (2 hrs), 42 V peak
14	Recommended Protective High-Pass	70 Hz for 8 Ω operation; 60 Hz for all transformer tap settings
15	Drivers	Two 125 x 55 mm (5 x 2.25 in.) racetrack LF drivers
16	Enclosure Material	PC + ABS, UL94-V0 flammability rating
17	Grille	Plated SPCC with polyester powder coat finish
18	Included Accessories	Low-profile Swivel (Pan) / Tilt WALL BRACKET; 2 x L-BRACKETS
19	Included Accessories	Swivel/Tilt Wall Bracket, 2 L-Brackets

Sr. No.	Indoor/Outdoor Loudspeaker	
12	QTY- 01, Proposed Make: - JBL / QSC / Audac	
1	Frequency Range (-10dB)	80 Hz – 20 kHz (half-space, on-wall); 60 Hz – 20 kHz (quarter
2	Power Handling	75 W Continuous Pink Noise, 2 hrs 60 W Continuous Pink Noise, 100 hrs 150 W Continuous Program Power 300 W Continuous Peak Power
3	Nominal Sensitivity	89 dB
4	Maximum SPL @ 1m	108 dB continuous average long-term (peaks of 114 dB)
5	Nominal Coverage Angle	105° horizontal x 80° vertical (2 kHz - 16 kHz, speaker in vertical orientation)
6	Directivity Index (DI)	8.6 dB (2 kHz - 16 kHz)
7	Directivity Q	7.4 (2 kHz - 16 kHz)
8	Nominal Impedance	4 Ohms
9	Minimum Impedance	4.0 Ohms @ 320 Hz
10	Crossover Frequency and Type	2 kHz – 36dB/octave tweeter; 18dB/octave woofers
11	Transformer Taps	30 W, 15 W, 7.5 W at both 70 V and 100 V (plus 3.8 W at 70 V only) Thru position is 4 ohms
12	Low-Frequency Transducers	Dual 4" (100 mm) PolyPlas,™ shielded woofer with dual neodymium magnets and 32 mm (1.25 in) voice coil on a vented aluminum former.
13	High-Frequency Transducer	3/4" (19 mm) Titanium-laminate dome tweeter, shielded neodymium magnet Ferrofluid® cooling.
14	Enclosure Material	ABS
15	Ports	Screened to protect against ingress of pests

Sr. No.	Amplifier	
13	QTY- 01, Proposed Make: - Crown / QSC / Labgruppen	
1	BLU link	Yes
2	Channels	2
3	Sensitivity (for full rated power at 8	0.7V RMS
4	Rated Power Output (per channel @ 4	300W
5	Analog Input Signal to Noise Ratio (ref.	> 104dB
6	THD (full rated power, 20 Hz - 20 kHz)	0.35%
7	Damping Factor (20 Hz to 100 Hz)	> 1000
8	Frequency Response (8Ω, 20 Hz - 20	+/-0.5dB

9	Crosstalk (below rated power) 20 Hz to 1	> 80dB
10	Input Impedance (nominally balanced,	20 kΩ balanced, 10 kΩ unbalanced
11	Power Supply Connector	Standard IEC type 320 inlet for detachable connector 100

### C. EQUIPMENTS REQUIRED FOR THE CONFERENCE ROOM:

Sr. No.	65 Inches 4K UHD Display	
14	QTY- 001, Proposed Make: - LG / Samsung / Panasonic	
1	Inch	65"
2	Resolution	3,840 × 2,160 (4K UHD)
3	Type	4K UHD
4	Backlight Type	Direct
5	Refresh Rate	60 Hz Native
6	Picture Processor	α5 AI Processor 4K Gen7
7	Number of CPUs	Quad
8	AI Upscaling	4K Upscaling
9	Dynamic Tone Mapping	Yes
10	AI Brightness Control	Yes
11	HDR (High Dynamic Range)	HDR10 / HLG
12	FILMMAKER MODE™	Yes
13	HEVC	4K @ 60p, 10 bit
14	VP9 / AV1 (Video Decoder)	4K @ 60p, 10 bit
15	Auto Calibration	Yes
16	Picture Mode	9 Modes (Vivid, Standard, Eco, Cinema, Sports, Game,
17	Gaming	HGIG Mode, Game Optimizer (Game Dashboard), ALLM (Auto
18	Smart TV	webOS24, ThinQ, Intelligent Voice Recognition, Magic Remote
19	Audio Output (Woofer / per Channel)	20 W (10 W per Channel)
20	Speaker System	2.0 Channel
21	Speaker Direction	Down Firing
22	AI Sound	Pro (Virtual 9.1.2 Up-mix)
23	Clear Voice Pro	Yes (Auto Volume Leveling)
24	AI Acoustic Tuning	Yes
25	LG Sound Sync	Yes
26	Sound Mode Share	Yes
27	Simultaneous Audio Output	Yes
28	Bluetooth Surround Ready	Yes (2 Way Playback)
29	Audio Codec	AC4, AC3 (Dolby Digital), EAC3, HE-AAC, AAC, MP2, MP3, PCM,
30	Connectivity	HDMI (3, Supports eARC, ALLM), Simplink (HDMI CEC), HDMI
31	Accessibility	High Contrast, Gray Scale, Invert Colors
32	Power Supply (Voltage, Hz)	AC 100-240 V, 50-60 Hz
33	Standby Power Consumption	Under 0.5 W
34	Energy Saving Mode	Yes
35	Illuminance Green Sensor	Yes
36	Energy Standard	Yes
37	Remote	Magic Remote MR24, Remote Control Batteries (AA x 2EA)
38	Power Cable	Detachable

<b>Sr. No.</b> 15	<b>Push Pull wall mount Bracket For LED</b> Qty:-1Nos, Bracket for 65" Professional LED
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<b>Sr. No.</b> 16	<b>Video Bar</b> QTY- 01, Proposed Make: - Poly / Neat / Cisco	
1	Audio Features	Poly NoiseBlockAI technology; Poly Acoustic Fence
2	Audio Standards	UAC 1.0; HID 1,11
3	Camera Type	Single-lens
4	Video Standards	UVC 1.1/1.5 Video
5	Microphone Type	Six-element beamforming microphone array
6	Microphone Pickup Range	Up to 15 ft
7	Interoperability	Zoom Certified; Microsoft Teams Certified; All cloud service
8	Collaboration Software	Microsoft Teams; Zoom
9	Ports	1 USB Type-C® 5Gbps signaling rate; 1 audio-in; 1 line in (optional microphone)
10	Power Supply	100 - 240 VAC 50/60 Hz
11	Dimensions (W × D × H)	4.2 × 27.3 × 2.8 in (without stand); 6.2 × 27.3 × 2.8 in (with
12	Weight	5 lb (without stand); 6 lb (with stand)

<b>Sr. No.</b> 17	<b>Camera Mounting For Video Bar System</b> QTY:- 1Nos, Mount for Video BAR Camera
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<b>Sr. No.</b> 18	<b>Presentation Switcher</b> QTY- 001, Proposed Make: - Wyrestorm / Barco / Crestron	
1	Inputs	2× HDMI In: 19-pin Type A; 2× USB-C; Wireless Video from
2	Outputs	2× HDMI Out: 19-pin Type A; 1× Analog Audio Out (5-pin
3	Audio Formats	2ch PCM
4	Output Video Encoding	HDMI
5	Video Resolutions (Max)	3840x2160p @30Hz 8bit 4:4:4
6	Supported Standards	DCI; RGB
7	Maximum Pixel Clock	300MHz
8	HDMI	HDMI   HDCP 2.2   EDID
9	USB	3× USB 3.0 Type A device ports (5V 1000mA per port); 2× USB
10	RS-232	1× 4-pin Phoenix (API control), provides 12V Power
11	LAN	2x 8-pin RJ-45 for API control (Telnet, TLS, HTTP/HTTPS for
12	Wireless	4× Wi-Fi Antennas; IEEE 802.11 a/b/g/n/ac; Dual-band 2.4 &
13	Power Supply	20V 10A
14	Max Power Consumption	160W
15	Operating Temperature	0 to +45°C (32 to +113°F), 10% to 90%, non-condensing
16	Storage Temperature	-20 to +70°C (-4 to +158°F), 10% to 90%, non-condensing
17	Max BTU	82 BTU/hr
18	Rack Units / Wall Box	1U

19	Height	42 mm / 1.651 in
20	Width	215 mm / 8.46 in
21	Depth	180 mm / 7.08 in

<b>Sr. No.</b> <b>19</b>	<b>Cable Cubby</b> QTY- 001, Proposed Make: - Wyrestorm / Barco / Crestron	
1	<b>Connectivity</b>	2 x Universal Power
		2 x USB Charger
		RJ45 Network
		VGA
		3.5 mm Audio
		HDMI 2.0
		Mini DP 1.2
		Type C USB 3.0
		Type A USB 3.0
		Product Weight 2.2 Kg
		Shipping Weight: 2.8 kg
Shipping Dimension: 0 x 200 x 210 mm (L x W x H)		
Color Available: Black		

#### D. NETWORK AND CCTV REQUIREMENTS

<b>Sr. No.</b> <b>20</b>	<b>Ethernet Switch Cisco- C1300-48T-4G</b> QTY- 02	
1	Capacity in millions of packets per second (mbps) (64-byte packets)	77.38
2	Switching capacity in Gigabits per second (Gbps)	104
3	System power consumption	110V=38.80W
4	Power consumption (with PoE)	N/A
5	Heat dissipation (BTU/hr)	132.39
6	Idle Power	110V=13.36W
7	Total system ports	52 x Gigabit Ethernet
8	RJ-45 ports	48 x Gigabit Ethernet
9	Combo ports (RJ-45 + Small Form-Factor Pluggable [SFP])	4 x SFP
10	Packet buffer	1.5 MB
11	Unit dimensions	445 x 288 x 44 mm (17.5 x 11.33 x 1.73 in)
12	Unit weight	3.95 kg (8.71 lb)
13	Power	100-240V 50-60 Hz, internal, universal
14	Operating temperature	(-5°C to 50°C)
15	FAN (number)	1
16	Acoustic noise	25°C: 29.7 dBA
17	MTBF at 25°C (hours)	1473382

<b>Sr. No.</b> <b>21</b>	<b>Ceiling Mount Tplink EAP610</b> Qty – 7Nos	
1	<b>Interface</b>	1x Gigabit Ethernet (RJ-45) Port
2	<b>Button</b>	Reset

3	<b>Power Supply (V2 and above)</b>	<ul style="list-style-type: none"> <li>• 802.3at PoE</li> <li>• 48 V Passive PoE</li> <li>• 12 V / 1.5 A DC (Power Adapter included)</li> </ul>
4	<b>Max. Power Consumption (V2 and above)</b>	<ul style="list-style-type: none"> <li>• EU: 13.7 W (PoE), 12.3 W (DC)</li> <li>• US: 14.2 W (PoE), 12.8 W (DC)</li> </ul>
5	<b>Dimensions (W x D x H) (V2 and above)</b>	6.3 x 6.3 x 1.3 in (160 x 160 x 33.6 mm)
6	<b>Antenna</b>	Internal Omni Antenna: <ul style="list-style-type: none"> <li>• 2.4 GHz: 2x 4 dBi</li> <li>• 5 GHz: 2x 5 dBi</li> </ul>
7	<b>Mounting</b>	<ul style="list-style-type: none"> <li>• Ceiling / Wall Mounting (Kits included)</li> <li>• Junction Box Mounting</li> </ul>
8	<b>Coverage</b>	115 m <sup>2</sup> (1250 ft <sup>2</sup> )**
9	<b>Concurrent Clients</b>	250+**
10	<b>Wireless Standards</b>	IEEE 802.11ax/ac/n/g/b/a
11	<b>Frequency</b>	2.4 GHz and 5 GHz
12	<b>Signal Rate</b>	<ul style="list-style-type: none"> <li>• 5 GHz: Up to 1201 Mbps</li> <li>• 2.4 GHz: Up to 574 Mbps</li> </ul>
13	<b>Wireless Functions</b>	<ul style="list-style-type: none"> <li>• 1024-QAM</li> <li>• 4x Longer OFDM Symbol</li> <li>• Multiple SSIDs (Up to 16, 8 per band)</li> <li>• Enable/Disable Wireless Radio</li> <li>• Automatic Channel Assignment</li> <li>• Transmit Power Control</li> <li>• QoS (WMM)</li> <li>• MU-MIMO</li> <li>• Seamless Roaming §</li> <li>• Omada Mesh §</li> <li>• Band Steering</li> <li>• Load Balance</li> <li>• Airtime Fairness</li> <li>• Beamforming</li> <li>• Rate Limit</li> <li>• Reboot Schedule</li> <li>• Wireless Schedule</li> <li>• Wireless Statistics (SSID/AP/Client)</li> </ul>
14	<b>Wireless Security</b>	<ul style="list-style-type: none"> <li>• Captive Portal Authentication §</li> <li>• Access Control</li> <li>• Wireless MAC Address Filtering</li> <li>• Wireless Isolation Between Clients</li> <li>• SSID to VLAN Mapping</li> <li>• Rogue AP Detection</li> </ul>

		<ul style="list-style-type: none"> <li>• 802.1X Support</li> <li>• WPA/WPA2/WPA3 (Personal &amp; Enterprise)</li> </ul>
15	Transmission Power	<b>CE:</b> <20 dBm (2.4 GHz, EIRP) <23 dBm (5 GHz band1/2, EIRP) <25 dBm (5 GHz band3) <b>FCC:</b> <25 dBm (2.4 GHz) <25 dBm (5 GHz)
16	Management Features	<b>Omada App:</b> Yes <b>Centralized Management:</b> Omada Cloud-Based Controller, OC300, OC200, Omada Software Controller <b>Cloud Access:</b> Yes (via OC300, OC200, Omada Software Controller, or Omada Cloud-Based Controller) <b>Email Alerts:</b> Yes <b>LED ON/OFF Control:</b> Yes <b>Management MAC Access Control:</b> Yes <b>SNMP:</b> v1, v2c, v3 <b>System Logging:</b> Local/Remote Syslog <b>SSH:</b> Yes <b>Web Management:</b> HTTP/HTTPS <b>L3 Management:</b> Yes <b>Multi-site Management:</b> Yes <b>Management VLAN:</b> Yes <b>Zero-Touch Provisioning:</b> Yes (requires Omada Cloud-Based Controller)
17	Certification	CE, FCC, RoHS
18	Package Content	<ul style="list-style-type: none"> <li>• EAP610</li> <li>• Power Adapter</li> <li>• Ceiling/Wall Mounting Kits</li> <li>• Installation Guide</li> </ul>
19	System Requirements	Microsoft Windows XP/Vista/7/8/10/11, Linux
20	Environment	<b>Operating Temp:</b> 0–40 °C (32–104 °F) <b>Storage Temp:</b> -40–70 °C (-40–158 °F) <b>Operating Humidity:</b> 10–90% RH non-condensing <b>Storage Humidity:</b> 5–90% RH non-condensing

Sr. No. 22	Network Video Recorder (NVR) 16-channel IP QTY - 01 Make:- Hikvision , Dahua , Axis	
1	Motion Detection 2.0	4-ch

	Human/Vehicle Analysis	
2	Video & Audio	IP Video Input: 16-ch Incoming Bandwidth: 160 Mbps Outgoing Bandwidth: 80 Mbps
3	HDMI Output	1-ch, 4K (4096×2160)/30 Hz, 4K (3840×2160)/30 Hz, 2K (2560×1440)/60 Hz, 1920×1080/60 Hz, 1600×1200/60 Hz, 1280×1024/60 Hz, 1280×720/60 Hz
4	VGA Output	1-ch, 1920×1080/60 Hz, 1280×1024/60 Hz, 1280×720/60 Hz
5	Video Output Mode	HDMI/VGA simultaneous output
6	Audio Output	1-ch, RCA (Linear, 1 KΩ)
7	Two-Way Audio	1-ch, RCA (2.0 Vp-p, 1 KΩ)
8	Decoding	Format: H.265+/H.265/H.264+/H.264 Recording Resolution: 8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF Synchronous Playback: 16-ch Decoding Capability: 1-ch @ 8 MP (30 fps) / 3-ch @ 4 MP (30 fps) / 6-ch @ 1080p (30 fps) Note: Camera resolution width/height cannot exceed 4096 pixels
9	Network	Remote Connection: 32 Protocols: TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS
10	Network Interface	1 × RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
11	Auxiliary Interface	SATA: 2 SATA interface (Up to 8 TB per disk) USB: 2 × USB 2.0 Alarm In/Out: N/A (4/1 optional)
12	General	Power Supply: 12 VDC, 3.33 A Consumption: ≤ 15 W (without HDD) Working Temperature: -10 °C to 55 °C (14 °F to 131 °F) Working Humidity: 10% to 90%
13	Dimensions (W × D × H)	385 × 315 × 52 mm (15.2" × 12.4" × 2.0")
14	Weight	≤ 1.8 kg (without HDD, 4.0 lb.)
15	Certification	FCC Part 15 Subpart B, ANSI C63.4-2014

Sr. No.	Technical Parameter	Required Specification
23		
<b>Camera: 2MP Fixed IP Dome Camera;</b>		
<b>QTY- 15      Make:- Hikvision , Dahua , Axis</b>		
1	Camera Type	Fixed Turret Network Camera
2	Image Sensor	1/2.8" Progressive Scan CMOS or better

3	<b>Resolution</b>	Minimum 2 MP (1920 × 1080)
4	<b>Minimum Illumination</b>	≤ 0.01 Lux (Color), 0 Lux with IR
5	<b>Day/Night</b>	True Day/Night with IR Cut Filter
6	<b>Lens</b>	Fixed Lens, 2.8 mm / 4.0 mm
7	<b>IR Range</b>	Minimum 30 meters
8	<b>Video Compression</b>	H.265 / H.264
9	<b>Frame Rate</b>	Minimum 25 fps @ 1080p
10	<b>Network Interface</b>	1 × RJ45, 10/100 Mbps
11	<b>ONVIF</b>	ONVIF Profile S & T compliant
12	<b>Intelligent Analytics</b>	Motion Detection with Human/Vehicle Classification
13	<b>Privacy Masking</b>	Supported
14	<b>Power Supply</b>	12V DC and/or PoE
15	<b>PoE Standard</b>	IEEE 802.3af
16	<b>Power Consumption</b>	≤ 8 W
17	<b>Ingress Protection</b>	Minimum IP67
18	<b>Operating Temperature</b>	-30°C to +60°C
19	<b>Housing</b>	Metal / Weatherproof Construction

<b>Sr. No.</b> 24	<b>D-Link- DGS-1018 POE,</b> QTY- 01	
1	Size	Desktop (with Mounting Kit)
2	Network Interface	16 × 10/100/1000 BASE-T ports, 2 × SFP
3	Standards	Auto MDI/MDI-X adjustment on all ports
4	Media Interface Exchange	CE Class B, FCC Part 15 Class B, VCCI Class B, C-Tick
5	Lightning Protection	6 kV
6	Switching Fabric	36 Gbps
7	Transmission Method	Store-and-forward
8	Data Transfer Rates	Gigabit Ethernet: 1000 Mbps
		Ethernet: 100 Mbps
9	Physical Specifications	Dimensions (L × W × H): 440 × 180 × 44 mm
		Weight: 3 kg

10	PoE Power Budget	150 W total (30 W max per PoE port)
11	Power	Total Power: 150 W
12	Humidity	Operating: 0% to 95% RH (non-condensing)
		Storage: 0% to 95% RH (non-condensing)

Sr. No.	DiskStation Synology DS-224	
25	QTY- 01	
1	CPU	Model: Intel Celeron J4125
		Quantity: 1
		Cores: 4
		Architecture: 64-bit
		Frequency: 2.0 GHz (base) / 2.7 GHz (turbo)
		Hardware Encryption Engine: Yes
2	Memory	System Memory: 2 GB DDR4 non-ECC
		Total Memory Slots: 1
		Max Memory Capacity: 6 GB (2 GB + 4 GB)
		Synology reserves the right to replace memory modules with the same or higher frequency based on supplier's product life cycle status. Rest assured that the compatibility and stability have been strictly verified with the same benchmark to ensure identical performance.
		Please select Synology memory modules for optimum compatibility and reliability. Synology will not provide complete product warranty or technical support if non-Synology memory modules are used for memory expansion.
3	Storage	Drive Bays: 2
		Drive Types: 3.5" SATA HDD, 2.5" SATA SSD
		Hot Swappable: Yes*
4	External Ports	2 - RJ-45 1GbE LAN Ports
		2 - USB 3.2 Gen 1 Ports
		USB Copy: Yes
		Note: MTU limit for 1GbE LAN is 1500
5	Appearance	Size (H x W x D): 165 x 108 x 232.2 mm
		Weight: 1.30 kg
6	Other	System Fan: 92 mm x 92 mm x 1 pcs
		Fan Speed Modes: Full-Speed Mode, Cool Mode, Quiet Mode
		Brightness Adjustable Front LED Indicators
		Power Recovery
		Noise Level*: 22 dB(A)
		Scheduled Power On/Off
		Wake on LAN/WAN
		Power Supply Unit / Adapter: 60 W
		AC Input Power Voltage: 100V – 240V AC
		Power Frequency: 50/60 Hz, Single Phase
		Power Consumption*: 14.69 W (Access), 4.41 W (HDD Hibernation)

<b>Sr. No.</b> 26	<b>Hard Drive Seagate,</b> QTY- 04	
	Hard Drive Size	6 TB
	Digital Storage Capacity	6000 GB
	Hard Disk Form Factor	3.5 Inches
	Cache Size	128
	Item Weight	610 Grams

<b>Sr. No.</b> 27	<b>65 Inches 4K UHD Display,</b> QTY- 01, Proposed Make: - LG / Samsung / Panasonic	
1	Image Sensor	1/3" progressive scan CMOS
2	Max. Resolution	2560 × 1440
3	Min. Illumination	Color: 0.01 Lux @(F2.0, AGC ON), B/W: 0 Lux with IR
4	Shutter Time	1/3 s to 1/100,000 s
5	Day & Night	IR cut filter
6	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°
7	Focal Length & FOV	2.8 mm, horizontal FOV 98.0°, vertical FOV 53.1°, diagonal FOV 114.7° 4 mm, horizontal FOV 78.7°, vertical FOV 43.1°, diagonal FOV 92.3°
8	Lens Mount	M12
9	Focus	Fixed
10	Aperture	F2.0
11	Lens Type	Fixed focal lens, 2.8 and 4 mm optional
12	Iris Type	Fixed
13	Supplement Light Type	IR
14	Supplement Light Range	Up to 30 m
15	IR Wavelength	850 nm
16	Smart Supplement Light	Yes
17	Main Stream	50 Hz: 20 fps (2560 × 1440) 25 fps (1920 × 1080, 1280 × 720) 60 Hz: 20 fps (2560 × 1440) 30 fps (1920 × 1080, 1280 × 720)
18	Sub-Stream	50 Hz: 25 fps (640 × 480, 640 × 360) 60 Hz: 30 fps (640 × 480, 640 × 360)
19	Video Compression	Main stream: H.265/H.264/H.264+/H.265+ Sub-stream: H.265/H.264/MJPEG
20	Video Bit Rate	32 Kbps to 8 Mbps
21	H.264 Type	Baseline Profile/Main Profile/High Profile
22	H.265 Type	Main Profile
23	Region of Interest (ROI)	1 fixed region for main stream
24	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, QoS, IPv6, Bonjour, IPv4, UDP, SSL/TLS
25	Simultaneous Live View	Up to 6 channels
26	API	Open Network Video Interface, ISAPI
27	User/Host	Up to 32 users. 3 levels: administrator, operator and user
28	Client	iVMS-4200, Hik-Connect

29	Web Browser	Plug-in required live view: IE 10, IE 11, Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+ Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+
30	Image Settings	Saturation, brightness, contrast, sharpness, AGC, white balance adjustable by client software or web browser
31	Day/Night Switch	Auto, Schedule, Day, Night
32	Wide Dynamic Range	120 dB
33	Image Enhancement	BLC, 3D DNR
34	Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
35	Basic Event	Motion detection, video tampering alarm, exception
36	Linkage	Upload to FTP, notify surveillance center, send email
37	Power	12 VDC $\pm$ 25%, 0.4 A, max. 5 W, $\varnothing$ 5.5 mm coaxial power plug PoE: IEEE 802.3af, Class 3, 36 V to 57 V, 0.2 A to 0.15 A, max. 6.5 W
38	Material	Base: metal, cover: plastic
39	Dimension	$\varnothing$ 111 mm $\times$ 82.4 mm ( $\varnothing$ 4.4" $\times$ 3.2")
40	Package Dimension	134 mm $\times$ 134 mm $\times$ 108 mm (5.3" $\times$ 5.3" $\times$ 4.3")
41	Weight	Approx. 360 g (0.8 lb.)
42	With Package Weight	Approx. 560 g (1.2 lb.)
43	Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity: 95% or less (non-
44	Startup and Operating	-30 °C to 60 °C (-22 °F to 140 °F). Humidity: 95% or less (non-
45	Language	English, Ukrainian
46	General Function	Anti-banding, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter
47	EMC	FCC SDoC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC
48	Safety	UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-
49	Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
50	Protection	IP67 (IEC 60529-2013), IK10 (IEC 62262:2002)

Sr. No. 28	<b>Push Pull wall mount Bracket For LED</b> Qty:-1Nos, Bracket for 65" Professional LED
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Sl. No. 29	<b>Camera junction / mounting box for wall/ceiling-mounted IP cameras; QTY -15</b>	
1	Size	5" $\times$ 5" $\times$ 2" (Depth approx. 2") or equivalent
2	Material	Powder-coated aluminium or robust ABS plastic
3	Mounting	Wall or ceiling mount compatible; includes screw holes for standard camera mounting
4	Cable Management	Space for cable routing; knockouts for conduit entry

5	<b>Weather Resistance</b>	IP54 or higher (for outdoor installation)
6	<b>Security</b>	Lockable / tamper-resistant lid
7	<b>Finish</b>	Black or White powder-coated / UV-resistant finish
8	<b>Accessories Included</b>	Mounting screws, anchors, cable clips

Sr.No. 30	<p><b>Wall Mount Network Rack</b> QTY:-1 24U Network Rack</p> <p><b>24U NETWORK RACK INFRASTRUCTURE</b></p> <p><b>1. PROJECT SCOPE</b> Supply, installation, and commissioning of a 24U Floor Standing Network Rack to house two (2) 48-port managed switches, patch panels, and associated power/cooling accessories.</p> <p><b>2. TECHNICAL SPECIFICATIONS</b> Feature   Required Specification     Form Factor   24U Floor Standing, 19-inch Rack Mount.     Dimensions   600mm (W) x 800mm (D).     Material   CRCA Steel (Cold Rolled Steel) with Powder Coated Finish.     Load Capacity   Minimum 500kg Static Load.     Front Door   Toughened Glass with Lock and Handle.     Rear Door   High-Density Perforated Steel (min. 65% airflow) with Lock.     Side Panels   Removable, Dual-Section with Slam Latches.     Cooling   Top-mounted Fan Tray with 2 x 230V AC High-Speed Fans.     PDU   6-Socket 5/15A Horizontal PDU with Surge/Spike Protection.     Grounding   Integrated Copper Earthing Kit with pre-wired connections.     Standards   Compliance with EIA-310-D / DIN 41494.     Approved Brands   Schneider (APC), Netrack, or Legrand.  </p> <p><b>3. BILL OF QUANTITIES (BOQ)</b>   Sr.   Item Description   Unit   Qty    --- --- --- ---    1   24U Network Rack (600x800) with Doors &amp; Side Panels   Set   1     2   Fan Mounting Module (Top-mounted, 2 Fans)   Set   1     3   Horizontal PDU (6-Way, 5/15A)   Unit   1     4   1U Horizontal Cable Manager (PVC Finger/Metal D-Ring)   Unit   4     5   1U Fixed Shelf (Steel)   Unit   1     6   Hardware Kit (Pack of 50 Cage Nuts/Bolts)   Pack   1     7   Grounding/Earthing Kit   Set   1     8   Installation &amp; Labeling Service   Job   1  </p> <p><b>4. SCOPE OF WORK (SOW)</b> * Assembly: Proper leveling of the rack using adjustable feet. * Mounting: Installation of 2x Switches and 2x Patch Panels (to be provided by the client). * Cable Management: Neat dressing of 96 patch cords using Velcro ties (no zip ties). * Labeling: Clear alphanumeric labeling of all ports and cables. * Testing: Verification of fan operation and PDU power delivery.</p>
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Sr. No. 31	Accessories and Cables	
1	CAT6 Patch Panel 48Port	QTY:- 2Nos
2	CAT6 1MTR LAN CABLE	QTY :-70Nos
3	HDMI CABLE 5MTR	QTY:- 2Nos
4	Horizontal Cable Manager	QTY:- 2Nos
5	IO Box and Rj45 Connector	QTY:- 70Nos

### Glossary of Technical Terms

- **NDI (Network Device Interface):** Protocol for video/audio transmission over IP networks.
- **PoE+ (Power over Ethernet Plus):** IEEE 802.3at standard for powering devices via Ethernet.

## Detailed Scope of Work

- The Audio-Visual, CCTV and Network and Network System will be installed in the Training and Placement Office (TPO) to support a wide range of crucial activities including pre-placement talks, corporate presentations, recruitment drives, student training sessions, and hybrid events (virtual interviews and webinars). The system must integrate seamlessly with the existing network infrastructure (Gigabit Ethernet) and all supplied equipment must comply with relevant Indian and international safety (e.g., BIS, UL) and environmental (e.g., RoHS) standards.

Key requirements for the project include:

- **High-definition projection system** and large-format **4K UHD displays** for impactful corporate presentations and clear video interactions.
- A **professional audio system** featuring multiple microphone types (handheld, collar, gooseneck) and strategically placed loudspeakers to ensure exceptional speech clarity during presentations, Q&A sessions, and group discussions.
- An **intuitive, centralized presentation system** for easy switching between multiple wired (HDMI/USB-C) and wireless (Airplay/Miracast) content sources, ensuring smooth transitions during company presentations.
- **Advanced video conferencing capabilities**, designed for seamless integration and compatibility with major platforms like **Microsoft Teams, Google Meet, and Zoom**, to facilitate remote interviews and virtual recruitment drives.
- A **robust supporting network infrastructure**, including Wi-Fi 6 access points, managed switches, and a comprehensive **IP-based CCTV system** for security and monitoring of the recruitment process.
- A **complete turnkey solution**, covering the supply, professional installation, neat cabling, system configuration, testing, training, and final commissioning of all specified equipment.
- Any **minor civil works** (e.g., wall reinforcement for mounts, precise tabletop cutting for the cable cubby, surface finishing) necessary for the equipment installation shall be carried out by the successful bidder at no additional cost, under the guidance of our facilities department.

## Service Level Agreement (SLA)

This Service Level Agreement outlines the performance standards and associated penalties agreed upon for the services rendered. The key parameters are as follows:

### 1. Response Time

- **Requirement:** Response must be provided within **4 hours** of lodging a complaint.
- **Channel:** Complaints must be submitted via the authorized **VJTI email**.

### 2. Resolution Time

- **Critical Issues** (e.g., system downtime): Must be resolved within **24 hours**.
- **Non-Critical Issues:** Must be resolved within **48 hours**.

### 3. Uptime Guarantee

- **Service Availability:** Minimum **99.5% uptime per month** is required.

### 4. Penalties for Non-Performance

- **Service Delays:** ₹100 per affected **device/system per day** beyond the resolution time, deducted from the **security deposit**.
- **Delayed Delivery of Goods/Equipment:** ₹100 per **day of delay** beyond the stipulated delivery deadline.

### OEM CRITERIA

SR. NO	GENERAL CONDITIONS - TO PREQUALIFY ALL THE OEMS SHOULD SATISFY THE ELIGIBILITY CRITERIA MENTIONED BELOW.	SUPPORTING DOCUMENT REQUIRED
1	<p><b>Compliance Check /</b>                      {Certificate of Compliance / Declaration of Conformity / Conformance Letter}</p>	<p>The OEM shall provide a Compliance Certificate on its official letterhead, duly signed and sealed by an authorized representative. The certificate must reference the relevant bid/tender number and explicitly confirm that all supplied equipment fully conforms to the specifications, standards, and requirements outlined in the tender documents.</p> <p>This certificate will serve as formal assurance that the delivered products meet the agreed-upon technical and quality criteria.</p>
2	<p>"The OEM must have a minimum of 10 years of continuous experience in the manufacturing of equipment similar in nature, scope, and technology to those specified in this tender. The experience must specifically relate to the categories of Audio-Visual, CCTV and Network (A.V.), Network and CCTV systems and related components being procured."</p>	<p>Incorporation Certificate or equivalent.</p>
3	<p>"The OEM must provide a product support and availability roadmap confirming that the supplied products will remain under official support and will not be classified as end-of-sale or end-of-support for a minimum of 5 years from the date of delivery."</p>	<p>Signed letter from OEM confirming product lifecycle.</p>
4	<p>OEM must have supplied similar Audio-Visual, CCTV and Network (A.V.), Network and CCTV systems to at least 3 educational or government institutions in India.</p>	<p>Work completion certificates from clients.</p>
5	<p>OEM must comply with BIS, UL, or CE standards for all equipment mentioned in this tender.</p>	<p>Certification documents.</p>

### Bidder Criteria

Sr. No.	General Conditions - To Prequalify all the OEMs should satisfy the Eligibility Criteria mentioned below.	Supporting Document Required
1	MAF or OEM Certification is mandatory and should be specific to Bid Number and Bid Date. No general MAF will be accepted. Wherever Authorized Distributors/service providers are submitting the bid, Authorization Form /Certificate with OEM/Original Service Provider details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid	Attach ink signed/Digitally signed MAF from OEM
2	Certified balance sheet and Profit and Loss statement for last three financial years.	Audited reports and CA certificate
3	Documentary proof of GST registration.	GST Certificate
4	Bidder should be profit making organization from consecutively past 3 FYs.	Audit Reports
5	The Bidder must have positive net-worth in last 3 financial years	Audited reports and CA certificate
6	The Bidder must have an average Annual turnover not less than ₹ 1 Crores/-	Audited reports and CA certificate
7	The bidder shall be at least 15 Years established company.	Incorporation / Firm Registration Certificate. / MSME Certificate
8	The bidder shall have satisfactory completed similar single order value of not less than ₹ 1 Crore during last three (3) years.	Work Completion certificate issued by the client, clearly stating the contract value.
9	<p>Bidder company should be a registered member of AVIXA with at least 2 CTS Certified staff employed.</p> <ul style="list-style-type: none"> <li>• AVIXA (<b>Audio-Visual, CCTV and Network and Integrated Experience Association</b>) is a globally recognized A.V. industry body.</li> <li>• Requiring <b>AVIXA membership</b> ensures the bidder is aligned with international standards and industry best practices.)</li> <li>• <b>CTS (Certified Technology Specialist)</b> is a professional certification by AVIXA, signifying verified knowledge in A.V. systems design, integration, and operation.</li> </ul>	Bidder should submit CTS Certificate and membership proof.

	<ul style="list-style-type: none"> <li>Requiring <b>at least 2 CTS-certified staff</b> ensures that the bidder has technically qualified personnel on their team, capable of handling complex A.V. installations and support.</li> </ul>	
10	Malicious Code Certificate	Should be on OEM Letter Head having bid number mentioned with seal & sign of OEM
11	Escalation matrix	With Bid Number mentioned on OEM Letterhead with seal and sign of OEM
12	The solution should have service warranty for period of 3 years and bidder should be responsible for SITC, support, warranty and after sales service for the items during the warranty period	Warranty certificate from OEM With Bid Number mentioned on OEM Letterhead with seal and sign of OEM.
13	ISO certifications from Bidder	9001-2015 and 27001-2022.
14	It is mandatory for all prospective bidders to undertake a site visit before submitting their bids. The purpose of the site visit is to provide the bidders with a comprehensive understanding of the site requirements and the conditions that may affect the execution of the work. Failure to undertake a site visit will result in the automatic rejection of the submitted bid.	Bidder must upload a visit report along with a bid document having seal and sign of buyer.
15	<b>Support Center:</b> The bidder must operate a 24/7 support center in Mumbai/Navi Mumbai, accepting complaints via email, unified portal, or telephone.	Address Proof such as Electricity Bill of office having address mentioned, Property Tax pay receipt from municipal corporation, etc.
16	Non-Blacklisting Declaration.	Should be on bidder Letter Head having bid number mentioned with seal & sign of bidder.
17	Datasheet of all quoted products should be attached with tender documents.	Products Literature/Datasheet
18	ISO certifications from Bidder	9001-2015 and 27001-2022.

### Additional Requirements

- Product Lifecycle:** Products must have a minimum 3-year support roadmap and must not be end-of-life during the contract period.
- Replacement:** In case of system failure, replace defective components with same or higher specifications within 24 hours of complaint lodging.
- Environmental/Safety Standards:** All equipment must comply with RoHS, BIS, UL, or CE standards.
- Cybersecurity:** IP-based equipment must support ISO 27001-compliant security features (e.g., encryption, secure updates).

**SECTION 5  
FINANCIAL BID**

- Quote prices in INR, inclusive of all costs (supply, installation, testing, commissioning, training, documentation, maintenance during warranty) except GST, which must be specified separately.
- Clearly indicate any additional charges/taxes.

Sr. No.	Item	Total Bid Price in ₹
1	Supply, Installation and Commissioning of Audio-Visual, CCTV and Network System for TPO At Veermata Jijabai technological Institute	
2	GST	
3	Other charges/taxes (if any) Please Provide Details	
	<b>Total bid price in figure</b>	
	<b>Total bid price in words</b>	

Sr.No	Item	Description
1.	Contact Person	
2.	Business Address	
3.	Tel No.	
4.	Mobile No.	
5.	Fax No.	
6.	E-mail	

- This offer shall be valid for 60 calendar days from the last date of submission of tender.
- Evaluation will be done on the basis of Total Bid Price (including all Taxes).
- We accept all terms & conditions of the contract.

Place:

Date:

Signature of Vendor with seal

**SECTION 6:  
CHECKLISTS, DECLARATIONS AND ANNEXURES**

**Documents Submission Checklist:**

Sr. No.	Requirement	Complied (Yes/No)	Document Reference
1	Firm Registration Certificates (PF, ESIC)		
2	GST Registration Certificate		
3	Partnership Deed/Incorporation Certificate		
4	Income Tax Returns (2022-23, 2023-24, 2024-25)		
5	Tender Fee Receipt (₹7,080/-)		
6	EMD Receipt (₹1,00,000/-)		
7	Site Visit Acknowledgment		
8	MAF from OEM		
9	Audited Financial Statements (Last 3 F.Yrs.)		
10	AVIXA Membership and CTS Certificates		
11	Malicious Code Certificate		
12	Compliance Certificate		
13	Escalation Matrix		
14	Warranty Certificate		
15	ISO 9001:2015 and 27001:2022 Certificates		
16	Non-Blacklisting Declaration		
17	Product Datasheets		

**Project Timeline:**

Milestone	Timeline
Site Survey	17 <sup>th</sup> June 2026
Pre-Bid Meeting	17 <sup>th</sup> June 2026
Bid Submission Deadline	As per portal schedule
Technical Bid Opening	As per portal schedule
Financial Bid Opening	To be notified
Delivery of Equipment	Within 30 days of purchase order
Installation and Commissioning	Within 30 days of purchase order
Training	Within 15 days of commissioning
Handover and Sign-Off	Within 45 days of purchase order

## Declarations

1. **Non-Blacklisting Declaration:** On bidder's letterhead, confirming the bidder is not blacklisted by any government entity.
2. **Malicious Code Certificate:** On OEM letterhead, confirming equipment is free of malicious code.
3. **Compliance Certificate:** On OEM letterhead, confirming compliance with tender specifications.
4. **Warranty Certificate:** On OEM letterhead, confirming 3-year warranty.

# Annexure - [I]

## Site Visit Acknowledgment Form

*(To be printed on bidder's letterhead and submitted along with the tender documents)*

This is to certify that the below-mentioned authorized representative(s) of the prospective bidder has/have visited the site of the TPO at Veermata Jijabai Technological Institute (VJTI), Matunga, Mumbai, as part of the tender requirement for:

Name of the Work: Supply, Installation, Testing and Commissioning (SITC) of Audio-Visual, CCTV and Network System for TPO  
Tender Ref No: VJTI/TPO/2026-27/Tender/01

The site visit was conducted between the allowed period from 15<sup>th</sup> June 2026.

Particulars	Details
Name of Bidder Organization	
Address of Bidder	
Name of Authorized Representative	
Designation	
Mobile Number	
Email ID	
Date of Site Visit	

We confirm that we have examined the site conditions and existing infrastructure and understood the scope of work. We shall not raise any claims on account of lack of understanding of site conditions.

Authorized Signatory of Bidder:

Name: \_\_\_\_\_  
Designation: \_\_\_\_\_  
Signature with Seal: \_\_\_\_\_  
Date: \_\_\_\_\_

Acknowledged by VJTI Representative:

Name: \_\_\_\_\_  
Designation: \_\_\_\_\_  
Signature with Official Seal: \_\_\_\_\_  
Date: \_\_\_\_\_

## Compliance Certificate

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**[OEM's Company Letterhead]**

### Compliance Certificate

Date: [Insert Date]

Bid/Tender No.: [Insert Bid/Tender Number]

To,

[Buyer's Name & Address]

[Project/Tender Reference]

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**Subject:** Compliance Certificate for Supplied Equipment

Dear Sir/Madam,

This is to certify that the equipment supplied by **[OEM Company Name]** under the above-mentioned bid/tender number fully complies with the technical specifications, standards, and requirements specified in the tender documents issued by **[Buyer's Organization Name]**.

Below are the details of the supplied products along with their specifications:

Sr. No.	Product Name/Model	Specification Parameter	Value/Description
1			
2			
3			
...			

We confirm that all supplied products meet the quality and performance criteria as per the tender, with no substitutions or deviations.

Should you require any further information or clarification, please feel free to contact us.

Thank you.

Sincerely,

[Authorized Signatory Name]

[Designation]

[OEM Company Name]

[Seal & Signature]