Government eProcurement System

eProcurement System Government of India

Tender Details

Date : 11-Nov-2026 03:13 PM

Print

Basic Details

Organisation Chain	Indian Institute of Management Sirmaur		
Tender Reference Number	IIMS/PUR/AI-based attendance system/06/2026-27		
Tender ID	2026_IIMS_933094_1	**Withdrawal Allowed**	Yes
Tender Type	Open Tender	**Form of contract**	Item Rate
Tender Category	Goods	**No. of Covers**	2
General Technical Evaluation Allowed	No	**ItemWise Technical Evaluation Allowed**	No
Payment Mode	Offline	**Is Multi Currency Allowed For BOQ**	No
Is Multi Currency Allowed For Fee	No	**Allow Two Stage Bidding**	No

Payment Instruments

Offline	S.No	Instrument Type
	1	Direct Credit
	2	Demand Draft
	3	R-T-G-S
	4	ECS
	5	NEFT

Cover Details, No. Of Covers - 2

Cover No	Cover	Document Type	Description
1	Fee/PreQual/Technical	.pdf	All technical documents/Eligibility Criteria as per the Annexure-III and Annaxure-V
2	Finance	.xls	BOQ

Tender Fee Details, [Total Fee in ₹ * - 0.00]

Tender Fee in ₹	0.00		
Fee Payable To	Nil	**Fee Payable At**	Nil
Tender Fee Exemption Allowed	No		

EMD Fee Details

EMD Amount in ₹	1,47,170	**EMD Exemption Allowed**	Yes
EMD Fee Type	fixed	**EMD Percentage**	NA
EMD Payable To	IIM Sirmaur	**EMD Payable At**	Paonta Sahib

Click to view modification history

Work /Item(s)

Title	Notice Inviting Tenders for supply, installation, testing and commissioning of AI Based Student Attendance System				
Work Description	Notice Inviting Tenders for supply, installation, testing and commissioning of AI Based Student Attendance System				
Pre Qualification Details	As per the tender documents				
Independent External Monitor/Remarks	NA				
Show Tender Value in Public Domain	Yes				
Tender Value in ₹	73,58,480	**Product Category**	Miscellaneous Goods	**Sub category**	AI Based Attendance System
Contract Type	Tender	**Bid Validity(Days)**	180	**Period Of Work(Days)**	365
Location	Dhaulakuan and Paonta Sahib	**Pincode**	173031	**Pre Bid Meeting Place**	IIM Sirmaur Dhaulakuan
Pre Bid Meeting Address	IIM Sirmaur Distt Sirmaur HP 173031	**Pre Bid Meeting Date**	20-Nov-2026 11:00 AM	**Bid Opening Place**	Dhaulakuan
Should Allow NDA Tender	No	**Allow Preferential Bidder**	No		
Tenderer Class	ALL				

Critical Dates

Publish Date	11-Nov-2026 05:00 PM	**Bid Opening Date**	03-Dec-2026 11:00 AM
Document Download / Sale Start Date	11-Nov-2026 05:00 PM	**Document Download / Sale End Date**	01-Dec-2026 05:00 PM
Clarification Start Date	NA	**Clarification End Date**	NA
Bid Submission Start Date	11-Nov-2026 05:00 PM	**Bid Submission End Date**	01-Dec-2026 05:00 PM

Tender Documents

NIT Document

S.No	Document Name	Description	Document Size (in KB)
1	Tendernotice_1.pdf	Notice Inviting Tenders for Supply, Installation, Testing and Commissioning of AI-Based Student Attendance System.	7579.40

Work Item Documents

S.No	Document Type	Document Name	Description	Document Size (in KB)
1	BOQ	BOQ_980763.xls	BOQ	333.50
2	Tender Documents	NITAI.pdf	NIT	7560.71

Bid Openers List

S.No	Bid Opener Login Id	Bid Opener Name	Certificate Name
1.	vikrant.kaushal@iimsirmaur.ac.in	Vikrant Kaushal	VIKRANT KAUSHAL
2.	ao_personnel@iimsirmaur.ac.in	HUKAM CHAND	hukam chand
3.	akdas@iimsirmaur.ac.in	Amiya Das	AMIYA KUMAR DAS

GeMARPTS Details

GeMARPTS ID	EB0UGC6OUM39
Description	GeM Non-Availability Report
Report Initiated On	04-Nov-2026
Valid Until	04-Dec-2026

Tender Properties

Auto Tendering Process allowed	No	**Show Technical bid status**	Yes
Show Finance bid status	Yes	**Stage to disclose Bid Details in Public Domain**	Technical Bid Opening
BoQ Comparative Chart model	Normal	**BoQ Compartive chart decimal places**	2
BoQ Comparative Chart Rank Type	L	**Form Based BoQ**	No

TIA Undertaking

S.No	Undertaking to Order	Tender complying with Order	Reason for non compliance of Order
1	PPP-MII Order 2017	Agree	
2	MSEs Order 2012	Agree	

Tender Inviting Authority

Name	Senior Consultant (Admin.)
Address	IIM Sirmaur HP 173031

Tender Creator Details

Created By	HUKAM CHAND
Designation	Administrative Officer
Created Date	05-Nov-2026 02:49 PM

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KNOWLEDGE . LEADERSHIP

INDIAN INSTITUTE OF MANAGEMENT SIRMAUR

(An Autonomous body under the aegis of Ministry of Education, Govt. of India)

NIT No. IIMS/PUR/AI-based attendance system/06/2026-27 Dated 11.11.2026

NOTICE INVITING TENDERS FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF AI-BASED STUDENT ATTENDANCE SYSTEM

Online tendering through CPPP (https://eprocure.gov.in/eprocure/app)

Purchase Office
Indian Institute of Management Sirmaur
Dhaula Kuan, Paonta Sahib, Distt. Sirmaur,
Himachal Pradesh-173031
Email: purchaseoffice@iimsirmaur.ac.in Website:www.iimsirmaur.ac.in

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TABLE OF CONTENTS

Sr. No.	Particular	Page No.
1	**SECTION I** **Notice Inviting Tender**	3
2	**SECTION II** **Instructions for bidders**	5
3	**SECTION III** **Eligibility Criteria**	7
4	**SECTION IV** **General Term & Conditions**	10
5	**SECTION V** **Scope of Work**	12
6	**SECTION VI** **Special Condition of Contracts**	13
7	**SECTION VII** **Standered Conditions of the tender**	31
8	**SECTION VIII** **Technical & Financial Evaluations**	34
9	**SECTION IX** **Proof of Concept (POC)**	35
10	**Bidders Cridential for Pre-Qualification (Annexure-I)**	36
11	**Undertaking from Bidders (Annexure-II)**	37
12	**Format of Bid Security Declarations from the Bidders in leu of EMD (Annexure-III)**	38
13	**Self-Declaration about Non-Blacklisting (Annexure-IV)**	39
14	**Checklist (Annexure-V)**	40
15	**Pre-Bid Query Format (Annexure-VI)**	41
16	**Financial Bid Format (Annexure-VII)**	42

IIM SIRMAUR
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E - INVITING TENDER

SECTION – I

Indian Institute of Management Sirmaur (IIMS) is an Institute of National Importance under the Ministry of Education, Government of India to provide management education of high quality and to promote allied areas of knowledge and inter-disciplinary studies.

1. Indian Institute of Management Sirmaur (IIM Sirmaur) invites online bids (e-tender) in two bid systems from reputed, experienced parties for IIM Sirmaur for Supply, Installation, Testing and Commissioning of AI-based Student Attendance System in the institute campus.

Duly filled-in documents must be submitted online. The schedule of this tender is detailed below:

1. Time Schedule:

Sr. No.	Description of Tender	Item rate tender for Supply, Installation	
1	Estimated Value of Tender	**Rs. 73, 58,480** /- (Rupees Seventy Three Lakh Fifty Eight Thousand Four Hundred Eighty Only.) inclusinve of all taxes. Yearly subscription cost is Rs. 6,00,000/- Only (Excluding GST)	
2	EMD Value @ 2% of the estimated value (Rs. 73,58,480/-)	Rs. 1, 47,170/- (Rupees One Lakh Forty Seven Thousand One Hundred Seventy Only). Name of the Account: Indian Institute of Management Sirmaur **Account Number: 140701000266** **IFSC Code: ICIC0001407 Bank Address: Near Y Point, Main Market, Paonta Sahib, Sirmaur, H.P. 173031**	
3	Tender Publish Date & Time	11.11.2026	05:00 PM
4	Tender Download Date & Time	11.11.2026	05:00 PM
5	Bid Submission Start Date & Time	11.11.2026	05:00 PM
6	Bid Submission Close Date & Time	01.12.2026	05:00 PM
7	Pre-Bid Meeting	20.11.2026	11:00 AM
7	Opening of e-Technical bid	03.12.2026	11:00 AM
8	Opening of e-Financial bid	Will be intimated later.	
9	Performance Security	5% of the Contract Value	
10	Award of Contract	Will be intimated later	

11	Contract Period	Initially, the contract shall be awarded for a period of one (01) year. The contract may be extended annually, up to a maximum period of five (05) years, subject to satisfactory performance of the Service Provider and mutual agreement between the Institute and the Service Provider, as well as the applicable terms and conditions of the contract.
12	Contact Person	IT Department/ Senior Consultant (IT) (Indian Institute of Management Sirmaur, Dhaula Kuan, Paonta Sahib, Sirmaur, H.P. 173031. Email Id:- sc_it@iimsirmaur.ac.in Contact No. 01704-277395/300

Note: Bidders are requested to sign and stamp on each page. The duly filled in signed & stamped bid should be submitted by the bidders in as prescribed in this tender document.

The tender document may be downloaded from the Institute's website www.iimsirmaur.ac.in. & https://eprocure.gov.in/eprocure/app. The bidders shall submit this tender document in Technical Bid cover duly signed & stamped as per the above schedule on CPP Portal. All the bidders should submit a Demand Draft/NEFT of Rs. 1, 47,170/- (Rupees One Lakh Forty Seven Thousand One Hundred Seventy Only) in favour of "Indian Institute of Management Sirmaur" payable at Paonta Sahib, Distt. Sirmaur, as the Earnest Money Deposit (EMD). The EMD of unsuccessful bidders shall be refunded within 30 days after finalization of the contract. The bidders/firms registered under MSMEs and NSICs are exempted from submission of EMD.

Pre-Bid Meeting:

An online pre-bid meeting will be organized on 20.11.2026 at 11:00 AM. The prospective bidders may send their Pre-bid queries through on emailed to purchaseoffice@iimsirmaur.ac.in before 5:00 PM 19.11.2026, queries received later than the date and time mentioned shall not be entertained. Reply on pre-bid queries received shall be displayed on institute's website/e-tendering website.



SECTION- II

INSTRUCTION FOR PREPARATION & SUBMISSION OF ONLINE BIDS:

1.1 The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal. More information useful for submitting online bids on the CPP Portal may be obtained at: https://eprocure.gov.in/eprocure/app.

1.2 The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates.

1.3 Technical bid should be submitted in PDF format & financial bid should be submitted in BOQ (.xlsx format) only.

1.4 The The Indian Institute of Management Sirmaur (IIM Sirmaur) invites proposals from eligible, experienced, and qualified vendors for the design, supply, installation, commissioning, and maintenance of an AI-based Student Attendance System.

1.5 The institute currently has approximately 1000 students and seeks to deploy a smart, automated, and accurate attendance monitoring solution leveraging Artificial Intelligence technologies such as facial recognition and real-time analytics to monitor the real presence of the student in the classroom

1.6 Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document/schedule and in general the documents are to upload in the PDF formats. Bid documents may be scanned with 100 dpi with colour/black and white option.

1.7 The bidder has to sign and upload the required bid documents one by one as indicated in the tender document.

1.8 The uploaded tender documents become readable only after the tender opening by the authorized bid openers.

1.9 Upload scanned PDFs of all relevant documents in a single PDF file as per Technical Bid Cover requirement.

1.10 Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid No. and the date & time of submission of the bid with all other relevant details.

1.11 Bidder should log into the portal well in advance for bid submission so that he/she can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for non-submission of bids in time or any delay due to other issues.

1.12 The signed technical and financial bids should be submitted online through CPP portal http://eprocure.gov.in/eprocure/app. The financial bid should include all the cost and other taxes (As per Central govt. norms) mentioned in the Financial Bid. If there is any separate cost, then that will be not acceptable.

IIM SIRMAUR

2. REGISTRATION:

2.1 Bidders are required to enroll free of charge on the e-Procurement module of the Central Public Procurement Portal (URL: https://eprocure.gov.in/eprocure/app) by clicking on the link "Click here to Enroll" on CPP Portal.

2.2 As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.

2.3 Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.

2.4 Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sift' / TCS/ nCode/ eMudhra etc.), with their profile.

2.5 Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.

2.6 Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

2.7 Kindly refer to the CPP Portal for more details.

3. SEARCHING FOR TENDER DOCUMENT:

3.1 There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID Organization name, location, date, value, etc. There is also an option of advanced search for tenders wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.

3.2 Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.

3.3 The bidder should make a note of the unique Tender ID assigned to each tender; in case they want to obtain any clarification / help from the Helpdesk.

SECTION III

ELIGIBILITY CRITERIA

S. No.	Criteria	Documents to be submitted
1.	The Bidder should be a company duly incorporated and registered in India under the provisions of the Companies Act, 1956 or 2013 / Proprietorship Firm / Partnership Firm and should have been in operation for at least 10 years as on date of RFP.	A copy of the Certificate of Incorporation / Registration Certificate of the Bidder should be enclosed.
2.	The Bidder must have valid GST and PAN numbers allotted by the respective authorities.	Copies of all the relevant certificates should be enclosed.
3.	The Bidder and all the major OEMs (CCTV, NVR, VMS, Hard Disk, LED Display, etc.) should not have been blacklisted, debarred or declared ineligible by the Government of India, any State Government, or any of their departments, agencies or undertakings during last 03 years. In the event of any such blacklisting or debarment is noticed, the bid shall be summarily rejected. No correspondence or representation in this regard shall be entertained by the Bank.	An undertaking to this effect should be submitted by the Bidder and all concerned OEMs on their letterheads, duly signed by an authorized signatory. All the documents should be enclosed.
4.	The OEM as well as Bidder should not be involved in any Bankruptcy filing or for protection from it. If they are so involved, both are not eligible to bid against the RFP.	Undertakings by the OEM and Bidder in this regard should be enclosed.
5.	The Bidder and all major OEMs should have a fully functional Helpdesk along with a clearly defined Escalation Matrix to provide technical support to the Bank during normal working hours. However, in the event of critical situations or emergencies, the SI and OEMs are expected to be available round the clock.	Detail of Help Desk Centre's and Escalation Matrix along with an undertaking to provide required services and support during the contract period should be enclosed.
6.	The bidder should be ISO 9001:2015 and ISO 27001:2022 certified as on the date of RFP.	Copies of valid certificates should be enclosed.
7.	The Bidder must either be an OEM or authorized business partners of the OEM (s) as evidenced by copies of relevant certificates. In case the Bidder is not the OEM, it must submit a bid-specific Manufacturer's Authorization Certificate (MAF) issued by the concerned OEM (s), duly authorizing the Bidder to quote, supply, install, test, commission, and provide comprehensive maintenance support for the items offered against the RFP.	The bidder should submit a self-declaration confirming its status as OEM or furnish the relevant Manufacturer's Authorization Certificate(s) (MAF) in respect of the proposed OEMs.

IIM SIRMAUR INDIAN INSTITUTE OF MANAGEMENT SIRMAUR

8.	The Bidder should have an average annual turnover of at least Rs. 10 Crores during the last 03 audited financial years, i.e. 2023-24, 2024-25 and 2025-26.	Audited financial statements or a certificate issued by a CA confirming the turnover may be submitted.
9.	The Bidder must be engaged in a similar line of business, such as IT Hardware, Networking, Data Centre Solutions, CCTV Surveillance Systems, or any other ICT related services / projects during last 05 years.	Copies of relevant POs / Work Orders / Contracts in support of the prescribed eligibility criteria should be enclosed.
10.	The Bidder must have successfully executed similar projects involving the Supply, Installation, Testing, Commissioning and Maintenance of IP-based CCTV Surveillance Systems with centralized monitoring for any Government Department, PSU, Scheduled Commercial Bank, Educational Education (National Importance) or Public Listed Company in India during the last 05 years. The Bidder must satisfy any one of the following experience criteria: • One (01) similar project with a minimum value of ₹ 1 Crores. OR • Two (02) similar projects, each with a minimum value of Rs. 80 lakhs. OR • Three (03) similar projects, each with a minimum value of ₹ 60 lakhs.	Copy of Work Order along with Completion Certificate should be enclosed.
11.	The OEM of the CCTV Cameras, NVR and Software must be a company duly incorporated and registered in India under the provisions of the Companies Act, 1956 or 2013, and must have direct presence and manufacturing facilities in India for at least the last 05 years. Any representation through a Dealer / Distributor / Subsidiary / Consortium shall not be considered as OEM. Only the actual manufacturer shall be treated as the OEM. The bidder must support this claim with valid documentary evidence.	A copy of the Certificate of Incorporation, along with Manufacturing Certificate / Factory License in India and DSIR Recognition Certificate issued by the Department of Scientific and Industrial Research (DSIR), must be submitted.
12.	All the CCTV Components (IP Cameras and NVR) quoted by the Bidder should be from same Make / OEM to ensure seamless integration, unified system architecture, compatibility and ease of operation and maintenance.	Undertaking in this regard may be enclosed

13.	The IP Cameras quoted by the Bidder should have BIS, CE, FCC and STQC certifications.	Copies of relevant certificates be enclosed.
14.	The OEM of the proposed CCTV should be full member of ONVIF (Open Network Video Interface Forum) on the date of RFP.	Valid ONVIF Membership Certificate or OEM listing on ONVIF official website to be enclosed.
15.	The OEM of the Attendance Management Software (VMS) must possess CMMi Level - 3 or above and ISO 27001 certifications.	Copies of CMMi Level - 3 and ISO 27001 certificates may be enclosed.
16.	Proof of Concept (POC)	The bidders will be required to demonstatte the proof of concept of the proposed solution, failing which the bid is liable to be rejected.

SECTION – IV

1. GENERAL TERMS AND CONDITIONS:

1.1 Before submitting the tender bids online, ensure that all documemts self-attested/uploaded in the technical bids.

1.2 All pages of the tender document must be signed by the authorized signatory and sealed with the stamp of the bidding firm as a token of having accepted all the terms and conditions of this tender.

1.3 The tender shall be submitted only through the designated online portal. Tenders submitted through any other mode, including post, courier, or email, will be liable to be rejected.

1.4 The bidders are requested to upload all the requisite documents along with the Technical Bid as per Checklist at Annexure-I.

1.5 The Name and Address of the bidder shall clearly be written in the space provided and no overwriting, correction, insertion shall be permitted in any part of the tender unless duly countersigned by the bidder. The tender should be filled in and submitted in strict compliance with the instructions laid down therein; otherwise, the tender in liable to rejected.

1.6 The person signing the bid or other documents connected with the tender must clearly write his/her name and also specify the capacity in which signing.

1.7 The institute reserves the right to reject any or all the bids without assigning any reason.

1.8 Amendments (If any) will be communicated to participating firms by way of Corrigendum.

1.9 Please read all terms and conditions carefully before submitting the bids. Incomplete bids and documents will be rejected.

1.10 Before submitting the filled-in tender bids on the Procurement Portal, the bidders may seek clarifications, if any, from Purchase office on Email Id: purchaseoffice@iimsirmaur.ac.in or in person by visiting the Institute during working hours by taking prior appointment of the authorities.

1.11 The copy of the Demand Draft/NEFT details for the prescribed Earnest Money Deposit (EMD) must accompany the tender document submitted by the bidder as mentioned in this document. Offers received without the requisite EMD shall summarily be rejected.

1.12 The prescribed Earnest Money Deposit (EMD) @ 2% of the Estimated value, as mentioned in the document, shall be deposited to the institute through Demand Draft (DD) drawn in favor of "Indian Institute of Management Sirmaur", payable at Paonta Sahib, Distt. Sirmaur, H.P. 173031, to be reached at the Institute address mentioned in the bid documents before the last date of submission of bid or through NEFT in the Institute's Account (Details are provided below).

1.13 The successful tenderer shall deposit Performance Security amounting to 5% of the contract value in the form of Demand Draft (DD), NEFT, TDR, FDR, or Bank Guarantee. The Performance Security shall remain valid for a period of 14 months.

Beneficiary Name: Indian Institute of Management Sirmaur
Bank Name: ICICI Bank Ltd.
Account Number: 140701000266
IFSC Code: ICIC0001407
Bank Address: Near Y Point Main Market, Paonta Sahib, Distt. Sirmaur, H.P. 173031

SECTION – V

SCOPE OF WORK

The details of the work to be executed are as follows:

1. System Design & Supply

- AI-powered attendance software with facial recognition capability
- Required hardware (IP Cameras, edge devices, servers if required)
- Licensing (perpetual or subscription-based)

2. Installation & Deployment

- Installation of cameras in classrooms with all required accessories including mount etc.
- Integration with existing IT infrastructure
- Installation of propose of software
- System configuration, integration and testing
- Proper Training to the end user department

3. Functional Requirements

The system must:

- Identify and record student attendance using facial recognition on real time basis
- Work in real-time during lectures
- Handle at least **1000+ student profiles,** if required should be scalable in the future.
- Support multiple classrooms simultaneously
- Provide alerts for low attendance
- Allow manual override by faculty (if needed)
- Generate reports (daily, weekly, monthly)

4. Software Requirements

- Web-based dashboard for administration
- Mobile app (optional but preferred)
- Role-based access (Admin, Faculty, Student)
- API integration capability with ERP/LMS

5. Data & Security

- Secure storage of biometric/facial data
- Compliance with Indian IT and data privacy laws
- End-to-end encryption
- On-premises or secure cloud deployment options

6. Training & Support

- Training for faculty and administrative staff
- User manuals and documentation
- Minimum **3 years support & maintenance.**

SECTION – VI
TECHNICAL SPECIFICATION

1. Software Feature Specifications

1.1 Attendance Engine

1.1.1 Facial Recognition Module

Feature	Specification
Recognition Accuracy	98% under controlled lighting conditions
Recognition Method	Deep learning-based facial feature extraction and matching via convolutional neural networks (CNN)
Enrollment Process	One-time face registration via camera capture or bulk photo upload
Face Database Capacity	Support for 100,000+ enrolled faces per edge server
Detection Speed	< 200ms per face detection and matching
Multi-face Detection	Simultaneous detection of up to 30 faces per camera frame
Liveness Detection	Anti-spoofing with liveness checks to prevent photo/video-based fraud
Mask Compatibility	Capable of recognizing partially obscured faces (masks, glasses, headwear)
Lighting Tolerance	Operate in low-light conditions down to 0.05 Lux with IR-assisted cameras
Angle Tolerance	Recognition at up to +/- 30 degrees yaw and +/- 20 degrees pitch

1.1.2 Attendance Logging

Feature	Specification
Auto-logging	Attendance logged automatically as students enter or are seated in classroom
Timestamp Precision	Millisecond-level timestamps synced to NTP server
Tamper-proof Records	Cryptographically signed attendance records with audit trail
Multi-location Tracking	Track attendance across classrooms, labs, workshops, and practical training areas
Late Arrival Detection	Configurable thresholds for marking late arrivals vs. absences
Session-based Tracking	Tracks attendance per class period, not just entry/exit
Proxy Detection	AI-based anti-proxy detection through continuous face monitoring during sessions
Manual Override	Faculty can manually mark/correct attendance via dashboard with audit logging
Bulk Export	CSV, Excel, and PDF export of attendance records with filtering
Retention Period	Configurable data retention (default: 365 days, expandable)

1.2 Video Management System (VMS)

1.2.1 Core VMS Features

Feature	Specification
OS Support	Windows Server 2019/2022, Ubuntu 22.04 LTS, RHEL 8/9
Database Support	MySQL, MS-SQL, PostgreSQL, Oracle
Camera Protocol	ONVIF Profile S, G, T, and M compliant
Camera Compatibility	Hardware-agnostic works with any ONVIF/RTSP IP camera
Video Compression	H.265/HEVC, H.264/AVC, MJPEG
Max Resolution	Up to 8MP (4K UHD) per channel
Multi-site Monitoring	Simultaneous monitoring of multiple campuses from a single console
Failover/HA	Automatic failover with high-availability database services and auxiliary management server
Cloud S3 Connector	Inbuilt cloud S3 connector for archival without third-party components
Disaster Recovery	Flexible and scalable DR system with multisite data backup to central location
Storage Support	NAS, SAN, DAS, and local storage compatible
Containerization	Docker/container and VM deployment supported on both Windows and Linux
Mobile Apps	Native Android and iOS applications for remote monitoring
Web Client	HTML5-based web client compatible with Chrome, Firefox, Edge, and Safari

1.2.2 VMS Client and Operator Features

- Site-wide hierarchical camera tree with role-based operator visibility
- Operator-specific unlimited camera hierarchy and personalized screen layouts
- Quick camera selection by IP address, camera number, or location
- Multi-monitor support with separate views for camera matrix, map view, and VA alerts
- Synchronized and simultaneous archive viewing across channels
- Quick archive video jumping from live view (5s, 10s, 30s, 1min, 5min, 1hr shortcuts)
- Tabbed dashboard view: camera dashboard, events, archived videos, system configuration
- Retain VMS client screen state on accidental shutdown or log-off
- Selectable aspect ratios: 4:3, 16:9, and fill-view with per-camera overrides
- Direct camera-to-client live video (bypassing server for lower latency)
- PTZ camera control widget with 3-axis USB joystick support
- GIS Map-based camera monitoring and alert visualization

1.2.3 Recording and Playback

Feature	Specification
Recording Modes	Continuous, motion-based, event-triggered, scheduled, and intelligent AI-triggered
Retention Period	Minimum 180 days at branch/campus level (configurable up to 365+ days)
Playback Modes	Instant, general, event-based, tag-based, and smart playback (face + motion detection)
Search Capabilities	Time/date search, alarm search, motion search, face search, and smart metadata search
Video Export	USB device and network-based backup; clip export in MP4/AVI formats
Quad Streaming	Support for quad simultaneous video streams per camera
Bandwidth Control	Variable and constant bitrate support (16 Kbps to 16 Mbps)

1.3 AI Analytics Engine

1.3.1 Built-in AI Capabilities

AI Feature	Description	Processing
Face Detection	Real-time face detection in video streams	Edge
Face Recognition	1:N facial matching against enrolled database	Edge
People Counting	Bi-directional people counting at entry/exit points	Edge
Crowd Distribution	Heat-map analysis of crowd density and movement patterns	Edge
Perimeter Protection	Tripwire and intrusion zone detection with instant alerts	Edge
Smart Motion Detection	AI-filtered motion detection reducing false alarms by up to 95%	Edge
Student Engagement	Attention, boredom, confusion, and distraction detection via facial cues	Edge
Object Detection	Detection of people, vehicles, and objects in real-time	Edge
Video Metadata	Human, motor vehicle, and non-motor vehicle classification	Edge
License Plate Recognition	Automated LPR for campus parking and vehicle access control	Edge
Anomaly Detection	Detection of security anomalies and suspicious behavior	Edge

1.4 Dashboard and Reporting

1.4.1 Administrative Dashboard

- Centralized real-time dashboard for faculty, administrators, and management
- Global visibility across all campuses, classrooms, labs, and entry points
- Role-based access control (RBAC) for different user personas (faculty, HOD, admin, security)
- Real-time attendance summary with present/absent/late breakdown
- Trend analytics with daily, weekly, monthly, and semester-level views
- Camera health monitoring with uptime reports and system status
- Storage utilization tracking and capacity planning reports
- Event logs and comprehensive audit trail reports
- Configurable alerts and notifications via web, mobile, email, and SMS

1.4.2 Report Types

Report	Description	Frequency
Attendance Summary	Per-class, per-student, per-day attendance reports	Daily/Weekly
Camera Uptime	Camera availability and downtime tracking	Daily
Storage Utilization	Disk usage, retention compliance, and capacity forecast	Weekly
System Health	Server, NVR, and network health metrics	Real-time
Event Logs	All system events with timestamps and user actions	On demand
Audit Trail	Complete audit log of attendance modifications and access	On demand
Compliance Report	R2T4, DPDP, FERPA compliance verification status	Monthly

2. Hardware Specifications

2.1 8 MP Varifocal Dome Camera

S#	Parameter	Minimum Technical Specifications
1.	IP Camera	8MP Dome Camera with Motorized Varifocal Lens
2.	Sensor	The camera should be equipped with a minimum of 1/ 2.7-inch 8MP CMOS sensor applying progressive scan technology to record more fluid footage and avoid distortion created by moving objects.
3.	Resolution	Minimum 3840 (H) × 2160 (V) for high-definition video quality
4.	Minimum Illumination	0.001 lux@F1.4 or better
5.	Shutter Speed	Auto/Manual, 1/3s~1/10000s
6.	Lens	2.8–13 mm (± 5%) with OEM Fitted Varifocal Motorized lens

7.	Mirror Function	Supports
8.	S/N Ratio	>57 dB or better
9.	Gain Control (AGC)	Auto/Manual
10.	Video Compression	H.265/H.264
11.	Back Light Comp.	BLC should allow adjusting the gain of the camera to improve exposure of the subjects that are in front of a bright light source
12.	Wide-Dynamic-Range	The camera should give a WDR range of minimum 120dB Real WDR
13.	Stream Capability	Quad Stream or better
14.	Video Streaming	Main stream: 8MP (3840 × 2160)@1–20 fps/ 4MP (2688 × 1520)@1–25/30 fps Sub Stream 1: D1@25fps Sub Stream 2: D1@25fps Sub Stream 3: D1@1fps
16.	Resolution	8MP, 6MP, 5MP, 4MP, 3MP, 2MP, 1.3MP,720P can be set at any resolution as per requirement.
17.	Motion Detection	3 Areas or Better
18.	Privacy Mask	3 Areas or Better
19.	ICR	The camera shall incorporate a physical Auto ICR filter for quality images both during day and night
20.	ROI	The Camera should allow at least 3 sections of the camera view to be streamed separately for distinguished viewing and recording.
21.	Audio Compression	G.711a/G.711Mu
22.	Audio In/Out	1 Channel in/1 Channel Out
23.	Alarm In/Out	1 Channel in/1 Channel Out
24.	Built in Mic	Supported
25.	Intelligent features	Tripwire, Intrusion
26.	Protocol	SFTP, IPv6, IPv4, DNS,RTCP, NTP, RTP, HTTP, HTTPS, SNMP V3, TLS Version 1.2, TCP/IP, PPPoE, NFS, UDP, ICMP, SSL, DHCP, SMTP, RTSPS, ONVIF (Profile S, Profile G, Profile T), unicast, multicast
27.	Ethernet	RJ-45 (10/100Base-T)
28.	Event Trigger	No SD card, SD card full, SD card error, Network disconnection, IP conflict, illegal access, Motion detection, Video tampering, Tripwire, Intrusion, Audio detection, Voltage detection, Security exception, External alarm

29.	Cyber Security	AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, WSSE, account lockout, syslog, video encryption, IP/MAC filtering, HTTPS, trusted upgrade, trusted boot
30.	User	5 or better
31.	Micro SD	Micro SD card (support max. 512GB); SFTP
32.	Operating Temperature	-30 °C to +60 °C (–22 °F to 140 °F)
33.	IR Range	Up to 50 Meter or Better
34.	Power Source	Dual Power Source 12 VDC & PoE (802.3af)
35.	Housing	IP67 & IK10
36.	Certifications	STQC approved compliance report, BIS, CE, FCC, RoHS, ISO 9001, 14001, 27001, 45001, 20000, CMMI Level 3 & Level 5, ISO/IEC 27032, GDPR

2.2 8 MP Varifocal Bullet Camera

Sl. No.	Parameter	Minimum Technical Specifications
1.	IP Camera	8MP Bullet Camera with Motorized Varifocal Lens
2.	Sensor	The camera should be equipped with a minimum of 1 / 2.7-inch 8MP CMOS sensor applying progressive scan technology to record more fluid footage and avoid distortion created by moving objects.
3.	Resolution	Minimum 3840 (H) × 2160 (V) for high-definition video quality
4.	Minimum Illumination	0.001 lux@F1.4 or better
5.	Shutter Speed	Auto/Manual, 1/3s~1/10000s
6.	Lens	2.8–13 mm (± 5%) with OEM Fitted Varifocal Motorized lens
7.	Mirror Function	Supports
8.	S/N Ratio	>57 dB or better
9.	Smart Illumination	Supports
10.	Gain Control (AGC)	Auto/Manual
11.	Video Compression	H.265/H.264
12.	Back Light Comp.	BLC should allow adjusting the gain of the camera to improve exposure of the subjects that are in front of a bright light source
13.	Wide-Dynamic-Range	The camera should give a WDR range of minimum 120dB Real WDR

14.	Stream Capability	Quad Stream or better
16.	Video Streaming	Main stream: 8MP (3840 × 2160)@1–20 fps/ 4MP (2688 × 1520)@1–25/30 fps Sub Stream 1: D1@25fps Sub Stream 2: D1@25fps Sub Stream 3: D1@1fps
17.	Resolution	8MP, 6MP, 5MP, 4MP, 3MP, 2MP, 1.3MP, 720P can be set at any resolution as per requirement.
18.	Motion Detection	3 Areas or Better
19.	Privacy Mask	3 Areas or Better
20.	ICR	The camera shall incorporate a physical Auto ICR filter for quality images both during day and night
21.	ROI	The Camera should allow at least 3 sections of the camera view to be streamed separately for distinguished viewing and recording.
22.	Audio Compression	G.711a/G.711Mu
23.	Audio In/Out	1 Channel in/1 Channel Out
24.	Alarm In/Out	1 Channel in/1 Channel Out
25.	Built in Mic	Supported
26.	Intelligent features	Tripwire, Intrusion
27.	Protocol	SFTP, IPv6, IPv4, DNS,RTCP, NTP, RTP, HTTP, HTTPS, SNMP V3, TLS Version 1.2, TCP/IP, PPPoE, NFS, UDP, ICMP, SSL, DHCP, SMTP, RTSPS, ONVIF (Profile S, Profile G, Profile T), unicast, multicast
28.	Ethernet	RJ-45 (10/100Base-T)
29.	Event Trigger	No SD card, SD card full, SD card error, Network disconnection, IP conflict, illegal access, Motion detection, Video tampering, Tripwire, Intrusion, Audio detection, Voltage detection, Security exception, External alarm
30.	Cyber Security	AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, WSSE, account lockout, syslog, video encryption, IP/MAC filtering, HTTPS, trusted upgrade, trusted boot
31.	User	5 or better
32.	Micro SD	Micro SD card (support max. 512GB); SFTP
33.	Operating Temperature	-30 °C to +60 °C (–22 °F to 140 °F)
34.	Dual Light	8MP Dual Light Bullet Camera (IR Range of 60 Mtrs, Warm Light Range of 60 Mtrs)
35.	IR Range	Up to 60 Meter or Better
36.	Power Source	Dual Power Source 12 VDC & PoE (802.3af)
37.	Housing	IP67 & IK10(Optional) with OEM fitted metal Body

38.	Certifications	STQC approved compliance report, BIS, CE, FCC, RoHS, ISO 9001, 14001, 27001, 45001, 20000, CMMI Level 3 & Level 5, ISO/IEC 27032, GDPR

2.3 License Plate Reading Camera

S#	Parameter	Minimum Technical Specifications
1.	IP Camera	4MP LPR Camera with Varifocal Motorized Lens
2.	Sensor	The camera should be equipped with minimum of 1/ 1.8" 4 MP CMOS sensor applying progressive scan technology to record more fluid footage and avoid distortion created by moving objects.
3.	Resolution	Minimum 2688 (H) × 1520 (V) for high quality Video Recording
4.	Minimum Illumination	0.01 lux@F1.2 or better
5.	Shutter Speed	Auto/Manual, 1/50s~1/10000s
6.	Lens	The Camera should be provided with an OEM fitted 10mm - 50mm (±5) Motorized Lens
7.	S/N Ratio	>55dB or better
8.	Gain Control (AGC)	Auto/Manual
9.	Video Compression	H.265/H.264
10.	Back Light Comp.	BLC should allow adjusting the gain of the camera to improve exposure of the subjects that are in front of a bright light source
11.	Wide Dynamic Range	The camera should give a WDR range of minimum 140dB WDR
12.	Video Streaming	Main stream (2688 × 1520@30 fps), sub stream (1600 × 1200@30 fps)
13.	Resolution	4MP, 2MP, 1.3MP, 720P, D1 & CIF can be set at any resolution as per requirement.
14.	ICR	Supports ICR auto switch: IR cut-off filter (IRCF) with the polarizing filter is used during the daytime, and switches to the common IR cut-off filter at night
15.	Trigger Mode	Video detection
16.	OSD Overlay	Time, Address, Device SN, Lane No., Plate number, Plate color, Vehicle logo, Vehicle type, Vehicle color, Vehicle size, Vehicle speed, Country/region, Event (violation name), and motor-cycle attributes (Type, Number of people, and Helmet)
17.	Automatic Network Recovery (ANR)	Platform, FTP (SD card is required)
18.	Image Tampering	Verifies watermarks in videos and images

19.	Security	Authorized username and password, MAC address binding, HTTPS encryption, and network access control
20.	Defog	The camera should be equipped with Defog which can be used to help in improving the captured image in poor weather condition such as smog, fog or smoke. The visibility of the cameras can be enhanced in any weather condition.
21.	Positioning	GPS
22.	Capture Speed Rate	5 to 120 Kmph or better
23.	Bad Pixel Correction	Support
24.	Target Detection	Motor vehicle; motorcycle
25.	Vehicle Type Recognition	Vehicle head: SUV, Large bus, Sedan, Light truck, Pickup, Heavy truck, Medium truck, Van, Medium bus, MPV Vehicle tail: SUV, Large bus, Sedan, Light truck, Pickup, Heavy truck, Medi-um truck, Van
26.	Interface Ports	RS-485, RS-232
27.	Lane Coverage	1/2 lanes
28.	Audio Compression	G.711a/ G.726
29.	Alarm IN/Out	2 channel in / 2 Channel Out
30.	Audio IN/Out	1 channel in / 1 Channel Out
31.	Protocol	SFTP, IPv6, IPv4, DNS,RTCP, NTP, RTP, HTTP, HTTPS, SNMP V3, TLS Version 1.2, TCP/IP, PPPoE, NFS, UDP, ICMP, SSL, DHCP, SMTP, RTSPS, ONVIF (Profile S, Profile G, Profile T), unicast, multicast
32.	Ethernet	RJ-45 (10/100Base-T)
34.	Alarm Event	Storage full, Storage error, External alarm, No storage card, License plate blocklist, Illegal access, Network disconnection, IP conflict
35.	Cyber Security	AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, WSSE, account lockout, syslog, video encryption, IP/MAC filtering, HTTPS, trusted upgrade, trusted boot
36.	Effective Range for LPR	The camera should have IR cover distance up to 30 mtr or above.
37.	Micro SD	SFTP; Micro SD card (support max. 512GB)
38.	Operating Temperature	-30 °C to +60 °C (–22 °F to 140 °F)
39.	Power Source	Dual Power Source 12–36 VDC & PoE (802.3af)
40.	Weatherproof Standard	IP67,IK10
41.	Certifications	STQC approved compliance report, BIS, CE, FCC, RoHS, ISO 9001, 14001, 27001, 45001, 20000, CMMI Level 3 & Level 5, ISO/IEC 27032, GDPR

2.4 Recording Box for License Plate

S#	Parameter	Minimum Technical Specifications
1	User Interface	Web & Local Graphic User Interface
2	Processor	Industrial-grade processor
3	Video Output	1 HDMI(4K), 1 VGA
4	Camera supported Resolution	Supports up to 12MP; 8MP; 5MP; 4MP; 3MP; 2MP Resolutions
5	Channel	8 channels
6	Video Compression	H.265/ H.264
7	Video Loss	Supports
8	Incoming Bandwidth	380 Mbps or better
9	Outgoing Bandwidth	380 Mbps or better
10	Alarm Input & Output	4 Channel & 2 Channel
11	Audio Input & Output	1 Channel & 1 Channel
12	Disk Interface	2 SATA III Ports, up to 20TB Each
13	Disk Group	Supports
14	Alarm Linkage	Record; Local alarm output, IPC external alarm output, Audio, Buzzer, Log
15	Recording Mode	General, Motion detection, Intelligent, Alarm, POS
16	Playback Capability	4 Channel 8 MP@25 fps, 8 Channel 4 MP@25 fps
17	Intelligent Features by Camera	Face detection, Face recognition, Perimeter protection, License Plate Reading, People counting, Heat map
18	Abnormality Alarm	Camera offline, Storage error, Disk full, IP conflict, MAC conflict, Login lock, Cybersecurity exception
19	Playback Mode	Instant playback, General playback, Event playback, Tag playback, Smart playback (face and motion detection)
20	Backup Mode	USB Device/Network
21	Multi-channel Playback	Up to 8 Channels
22	Network Port	1 RJ-45 port (10/100/1000Mbps)
23	Interface Ports	2 USB Ports (1 Rear USB3.0,1 Front USB2.0), 1 RS485, 1 RS232
24	Network Protocols	HTTP, HTTPS, TCP/IP, IPv4, UDP, NTP, DHCP, DNS, SMTP, UPnP, Multicast, ONVIF (Profile T, Profile S, Profile G)

25	Power Supply	Single, 12VDC, 4 Amp or as per OEM Standard
26	Working Temp	-10 ~+55°C / 10~90%RH / 86~106kpa
27	Certifications	BIS, UL, CE, FCC, RoHS, ISO 9001, 14001, 27001, 45001, 20000, CMMI Level 3 & Level 5, ISO/IEC 27032, GDPR

2.5 Recording box for Classroom

S#	Parameter	Minimum Technical Specifications
1	Operating System	Embedded LINUX
2	User Interface	Web & Graphic User Interface
3	Video Output	2 HDMI (4K), 2 VGA
4	Camera supported Resolution	Supports up to 12MP; 8MP; 5MP; 4MP; 3MP; 2MP Resolutions
5	Video Compression	H.265/ H.264
6	Channel	128 channels
7	Incoming Bandwidth	380Mbps or better
8	Outgoing Bandwidth	380Mbps or better
9	Motion Detection	supports
10	Video Loss	supports
11	Alarm Input /Output	16 Channel/ 8 Channel
12	Audio Input /Output	1 Channel/ 1 Channel
13	Intelligent Features by Camera	Face detection, Face recognition, Perimeter protection, License Plate Reading, People counting, Heat map
14	Disk Interface	8 SATA III ports, up to 20TB Each
15	RAID	RAID 0/1/5/6/10
16	General Alarm	Motion detection, Local alarm, Camera external alarm, Network alarm, Scene changing
17	Recording Mode	General, Motion detection, Intelligent, Alarm
18	Alarm Linkage	Record; Local alarm output, IPC external alarm output, Audio, Buzzer, Log
19	Playback Capability	4-channel 16 MP@25 fps; 8 channels 8MP@25fps; 12 channels 5MP@25fps; 16 channels 4MP@25fps, 32 channels 2MP@25fps
20	Backup Mode	USB device and network
21	Playback Function	Instant playback, General playback, Event playback, Tag playback, Smart playback (face and motion detection)
22	Abnormality Alarm	Camera offline, Storage error, Disk full, IP conflict, MAC conflict, Login lock, Cyber security exception
23	Ethernet	2 RJ-45 port (10/100M/1000Mbps)
24	Network Mode	Multi-address mode, load balance, fault tolerance and other network port binding modes

25	Interface Ports	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports), 1 eSATA Port, 1 RS232, 2 RS485
26	Protocols	HTTP, HTTPS, TCP/IP, IPv4, UDP, NTP, DHCP, DNS, SMTP, UPnP, Multicast, iSCSI, ONVIF (Profile T, Profile S, Profile G)
27	Power Supply	Single, 100 V–240 V AC, 50 Hz–60 Hz
28	Working Temp	-10°C ~+55°C / 10~90%RH / 86~106kpa
29	Certifications	BIS, UL, CE, FCC, RoHS, ISO 9001, 14001, 27001, 45001, 20000, CMMI Level 3 & Level 5, ISO/IEC 27032, GDPR

2.6 16 TB Hard Disk

S#	Parameter	Minimum Technical Specifications
1	Marketing Name	Surveillance HDD
2	Capacity	16 TB or Higher
3	Interface	SATA 6Gb/s
4	Cache	256 MB
5	Bytes per Sector	4096
6	RV Sensor	Yes
7	Drive Bays Supported	16+
8	Cameras Supported	Up to 64
9	Seek Average Read	< 9.5 ms
10	Seek Average Write	< 9.5 ms
11	Avg Data Rate	146 MB/s
12	Max Sustained Data Rate	180 MB/s
13	Voltage Tolerance (5V)	±5%
14	Voltage Tolerance (12V)	±10%
15	Startup Power	2:00 AM
16	Operating Power	5.6 W
17	Idle Power	4 W
18	Standby Mode	0.5 W
19	Sleep Mode	0.5 W
20	Operating Temperature	0°C to 70°C
21	Non-Operating Temperature	-40°C to 70°C
22	Load/Unload Cycles	600,000
23	Non-Recoverable Errors	1 per 10^14
24	AFR	< 1%
25	Power-On Hours	8760
26	Warranty	3 Years

2.7 Workstation

2.8 - 24 Port POE Switch

S#	Parameter	Minimum Technical Specifications
1	PoE Ports	24, 10/100/1000Mbps; RJ45 ports; Max. 30W Output of Single PoE Port
2	Uplink Ports	2 x 1000Mbps RJ45 ports + 2 x 1000Mbps SFP ports
3	Switching Capacity	40Gbps Full duplex or better
4	Packet Forwarding Rate	41.664Mpps or better
5	PoE Standard	IEEE802.3af, IEEE802.3at
6	MAC Address List	8K or better
7	Transmission Distance	0-100m/1000Mbps or Port 17-24 Max. 250m/10Mbps via Cat.5e or more under Extend mode
8	PoE Feature	All ports support MDI/MDIX
9	PoE Power Budget	300W or better
10	Network protocol and Standard	IEEE802.3/802.3u/802.3ab/802.3z/802.3x
11	Packet Buffer	3Mb or better
12	PoE watchdog	Support
13	Surge Protection	Common mode/RJ45 port:4KV, Differential mode/RJ45 port:2KV, Common mode/Power board:4KV, Differential mode/Power board:
14	ESD Protection	Air discharge:8KV, Contact discharge:6KV
15	Forwarding Mode	Store-and-forward
16	Power Source	Bult-in Power Supply, Input: 110-240V AC, 50/60Hz
17	Operating Temperature	-10°C~-50°C
18	Operating Humidity	10%-95% , non-condensing
19	Certifications	TEC Approved, ISO 9001, 14001, 27001, 45001, 20000, CMMI Level 3 & Level 5, ISO/IEC 27032, GDPR

2.9 SFP Modules

S#	Minimum Technical Specifications
1.	*Standard Compliance: IEEE-802.3ae 10GBASE-LR, Wavelength: 1310 nm (Single-Mode). Hot Pluggable, MSA Compliant, RoHS Compliant, DDM (Digital Diagnostics Monitoring) Supported. Operating Temperature: 0 to 70 °C, Storage Temperature: -40 to 85 °C. Operating Humidity: 0 to 85%, Storage Humidity: 0 to 95%. RoHS. EMC: EN 55032: 2012+AC:2013, Class B; EN 55024: 2010+A1:2015, Safety: EN 62368-1: 2014+A11:2017; EN 60825-1: 2014; EN 60825-2: 2004+A2:2010, RoHS: Restriction of Hazardous Substances EN IEC 63000: 2018, All the Transceivers/Modules used to connect the Switches from the same OEM/make of the switches only*

2.	*Standard Compliance: IEEE-802.3ae 10GBASE-LR, Wavelength: 1310 nm (Single-Mode)*
3.	*Hot Pluggable, MSA Compliant, RoHS Compliant, DDM (Digital Diagnostics Monitoring) Supported*
4.	*Operating Temperature: 0 to 70 °C, Storage Temperature: -40 to 85 °C*
5.	*Operating Humidity: 0 to 85%, Storage Humidity: 0 to 95%*
6.	*Module is in compliance with the essential requirements & other relevant provisions of the directives 2014/30/EU (EMC), 2014/35/EU (LVD) & 2011/65/EU (RoHS).*
7.	*EMC: EN 55032: 2012+AC:2013, Class B; EN 55024: 2010+A1:2015*
8.	*Safety: EN 62368-1: 2014+A11:2017; EN 60825-1: 2014; EN 60825-2: 2004+A2:2010*
9.	*RoHS: Restriction of Hazardous Substances EN IEC 63000: 2018*
10.	*All the Transceivers/Modules used to connect the Switches from the same OEM/make of the switches only*

2.10 9U Network Rack

S#	**Minimum Technical Specifications**
1.	*Dimensions: 550 W x 500 D*
2.	*2 pairs of 19" Mounting Rails with U-Marking, Mounting angles made of formed steel*
3.	*Rack shall Conforms to DIN 41494 OR equivalent ISO Standards*
4.	*Frame Structure made of 1mm CRCA sheet*
5.	*Front toughened glass door with 0.8mm - 1.2mm MS frame with lock*
6.	*Front tinted Toughened Glass Door with Lock & Key*
7.	*Rear 0.8mm - 1.2mm MS vented door with lock*
8.	*Fixed side panels, welded structure*
9.	*Welded Side Walls, CRCA steel Frame & powder coated with highest quality standards.*
10.	*Cable entry provision at top & bottom (cable gland used for termination of cables, unused openings sealed properly),*
11.	*Air circulation technology with One Cooling fan fitting option at top*
12.	*Provision to mount cooling fans Unit / 90 CFM /230V AC (1 No) on the top panel*
13.	*Sufficient perforation provided for ventilation at all sides*
14.	*Finished with 7 process pre-treated powder coating*
15.	*Grounding & Bonding Options. 100% assured compatibility with all equipment conforming to DIN 41494 (General industrial standard for equipment)*
16.	*Rack Welded to Frame Top & Bottom Cover, Vented & Field Cable entry exit cut outs*
17.	*1 x 1U Horizontal Cable Manager, 1 Pkt Hardware Pkt of 20, Power Distribution Unit 6 Socket 5 Amp. 1nos.*
18.	*Depth adjustable mounting slots for verticals provide better mounting flexibility & maximizes the usable mounting space*
19.	*Standard Color : Grey, Static Load: 40 kgs*
20.	*Rack Make in India, ISO 45001, ISO 9001, ISO 14001, ISO 27001, ISO 14064-1.*

2.11 22U Network Rack

S#	Minimum Technical Specifications
1.	*22U Enclosure Frame-600W X 1000D STEEL Nos 1 Nos, Casters Set of 4 1 Nos, Adjustable Levelers set of 4, Glass Door-600-22U 1 Nos, Metal Door-600-22U-Vented 1 Nos, 1 Side Panels-1000-22U-Vented 2 Nos, Mounting Hardware-(Pack of 20), FHU with 2 FAN 180CFM 1 Nos, Horizontal Power Distribution Unit with 6 x 5/15A sockets Round Pin, 230 Volts AC, 16 Amp with Plug, Horizontal Cable Manager-1U-Loop 1 Nos*
2.	*22U Enclosure Frame-600W x 1000D-STEEL ENCLOSURE With Welded Side Panels*
3.	*Front Door: Lockable Toughened Glass Door, Glass Door-800-22U*
4.	*Rear Door: Vented Single Door Metal Door-800-22U-Vented*
5.	*Side Panels-1000-22U-Vented & Welded*
6.	*Mounting Hardware-(Pack of 20)*
7.	*Horizontal Power Distribution Unit with 6 x 5/15A sockets Round Pin, 230 Volts AC, 16 Amp with Plug*
8.	*Horizontal Cable Manager-1U-Loop*
9.	*Mounting Slots: Depth adjustable for verticals, providing better mounting flexibility to maximize usable space*
10.	*Top & Bottom Cover: Welded to Frame, Vented & Field Cable entry exit cut outs*
11.	*Finish: Powder coated finish with pretreatment process meeting all industry standards*
12.	*Grounding & Bonding: Options available*
13.	*Equipment Mounting: DIN Standard 10mm Sq. Slots / Direct M6 Tap*
14.	*Mounting Angle: 19" mounting angles made of formed steel*
15.	*Top & Bottom Cover: Welded to Frame, Vented, with Field Cable Entry/Exit Cutouts*
16.	*Mounting Options: Castor wheels (Front 2 wheels with Break & rear without break) Or Levelers or Base plinth, Adjustable Levelers set of 4*
17.	*Power Distribution Units, FHU with 2 FAN 180CFM.*
18.	*Standard Color: Black or Grey*
19.	*Load Bearing Capacity: 300 kgs*
20.	*Rack should be made in India, ISO 45001, ISO 9001, ISO 14001, ISO 27001, ISO 14064-1.*

2.12 24 Port Loaded CAT 6 Patch Panel

S#	Minimum Technical Specifications
	Category 6A UTP Patch Panel 24 Port 1U Size.
	Mounts in standard 19 inch racks.
	Patch panel should have cable manager for improvement management.
	Patch panel made from SPCC & 1.5mm or higher thickness with black colour painted.
	RJ-45 Jack housing PBT + glass fiber, UL-94V-0.
	RJ-45 Jack contact material phosphor bronze with nickel plated

	RJ-45 Jack shield material phosphor bronze with tin plated
2.	***Note***
	OEM for the cable Box & all copper Accessories from same OEM.

2.13 1" PVC Conduit

2.14 12 Port Loaded LIU

S#	Minimum Technical Specifications
1.	*Loaded LIU shall accommodate Simplex/Duplex LC Single mode adapters.*
2.	*Aluminum base Material with Powder Coating for light mounting*
3.	*Adapter panel - Cold Steel, 1.5mm Thickness*
4.	*Rubber fiber slotted bracket built-in, metal splice shelf to protect the fibers*
5.	*4 Fiber spools Built-In for 900um tight buffered Fiber Storing*
6.	*Capable of Storing 3 Meters of 900um tight buffered fiber per adapter.*
7.	*Snap-in locker design, easy to change adapter panels for various connector patching*
8.	*Accessory kit consists of cable ties, mounting ear screw & spiral wrap tube, cable saddle.*
9.	*Fiber magic sticker provision inside for 900um tight buffered fiber storing*
10.	*Front-Mounted Cable Saddles for jumper management*
11.	*should include adapter panels for maximum 48LC, 48SC, 36ST or 36FC terminations*
12.	*Removable Front & top covers for better access to interior of LIU*
13.	*Removable Rubber grommet to allow for pre-terminated fiber trunk installation, protects cable & minimizes dust build-up*

2.15 CAT 6 Cable

S#	Minimum Technical Specifications
1.	*Category 6A Unshielded Twisted 4 pair compliant with ANSI/TIA/EIA-568-C.2 & & ISO/IEC 11081. Should support 10GBASE-T (10-Gigabit Ethernet) standard. Category 6A should operate on bandwidth up to 500MHz. Category 6A can run 10GBASE-T at 100 meters. The conductors twisted in pairs with four pairs & Insulation high density polyethylene. Copper conductor diameter 23 AWG. Cable outer sheath LSZH. Cable outer diameter 7.5 mm nominal. Conductor Resistance: ≤ 9.38Ω/100m. Mutual Capacitance: < 5.6nF/100m. Resistance Unbalance: 5% Max. Delay Skew: < 45nS. Characteristic Impedance: 100 ± 15Ω. Bending Radius 8 x cable diameter. Operating temperature Range 0°C to +60°C. Need to submit transmission characteristics report per 100 meter. The report at least includes Maximum Attenuation, RL, NEXT & PSNEXT data. Cable box require in 305 meter length. OEM International certification for the ISO 45001, ISO 9001, ISO 14001, & ISO 14064-1.*
	Category 6A Unshielded Twisted 4 pair compliant with ANSI/TIA/EIA-568-C.2 & & ISO/IEC 11081.
	Should support 10GBASE-T (10-Gigabit Ethernet) standard.
	Category 6A should operate on bandwidth up to 500MHz.

	Category 6A can run 10GBASE-T at 100 meters.
2.	***Mechanical Characteristics***
	The conductors twisted in pairs with four pairs & Insulation high density polyethylene.
	Copper conductor diameter 23 AWG. Cable outer sheath LSZH. Cable outer diameter 7.5 mm nominal.
3.	***Electrical Properties***
	Conductor Resistance: ≤ 9.38Ω/100m, Mutual Capacitance: < 5.6nF/100m, Resistance Unbalance: 5% Max, Delay Skew: < 45nS, Characteristic Impedance: 100 ± 15Ω
4.	***Mechanical Properties***
	Bending Radius 8 x cable diameter. Cable box require in 305 meter length.
	Operating temperature Range 0°C to +60°C
	Need to submit transmission characteristics report per 100 meter. The report at least includes Maximum Attenuation, RL, NEXT & PSNEXT data.
5.	***Note***
	OEM International certification for the ISO 45001, ISO 9001, ISO 14001, & ISO 14064-1.
	OEM should have Indian based operation & Passive Products portfolio at least for a period of 10 years or higher.
	Bidder required to be furnished the Manufacturers Authorization Form (MAF)/Certificate along with the bid. MAF require from OEM with OEM details such as name, designation, address, e-mail Id & Phone No.
	OEM for the cable Box & all copper Accessories from same OEM.

2.16 CCTV Mounting Box

2.17 6 Core Single Mode OFC

S#	Minimum Technical Specifications
1.	***General Features***
	Fiber cable Single Mode. Suitable for Indoor/Outdoor (Duct) Local Area Network Systems.
	excellent Waterproof Layer & Good Moisture Resistance.
	Fiber Cable optimized for operation at 1310 nm & at 1550 nm.
	Central Loose tube with jelly compound.
	Glass yarns in between Steel tape & loose tube.
	Corrugated steel Tape Armored
	Fiber type 9/125 / G.652D & Refractive Index 1.4670/1.4675
	Fiber should follow Standard ISO 11801, IEC 60793-1/60794-1-2 & ITU-T-REC G.652D
	Testing methods are in accordance with the following standard Telecordia: GR-20 Core, ISO : 11801
	Jacket material HDPE
2.	***Mechanical Characteristics***
	The Fiber Armored 6 core unitube 9/125 µm SM fiber.

	Thickness of the Jacket: 1.8 + 0.2 mm, Outer diameter 9 ± 0.3 mm
	3000N/100mm Crush Load (IEC 60794-1-2-E3).
	Bend Radius (IEC 60794-1-2-E11 & E6) Short Term 20D in mm & Long Term 10D in mm.
	Pulling Tension: Short Term 2000N, Long term 1000N pulling tension (IEC 60794-1-2-E1).
3.	***Geometrical Properties***
	Mode field diameter 9.2um ±0.5
	Clad Diameter 125um ±1.0
	Dispersion At 1285 - 1330nm <=3.5 ps/nm.km
	Dispersion At 1550nm <=18.0 ps/nm.km
	PMD value <=0.2 (ps/km)
4.	***Other Characteristics***
	Maximum Attenuation at 1310nm <=0.36 dB/km.
	Maximum Attenuation at 1550nm <=0.22 dB/km.
	Cabled Cutoff Wavelength <=1260 nm.
5.	***Environmental Characteristics***
	The Fiber Operating Temperature – 20 deg C to +60 deg C
	OEM Indian based operation at least for a period of 20+ years & Annual Turnover of Rs. 500 Crores & above in any of last three consecutive Audited Financial years.
	OEM International certification for the ISO 4500, ISO 9001, ISO 14001 & ISO 14064-1.

2.18 1 Mtrs CAT 6 Patch Cord

S#	**Minimum Technical Specifications**
1	*Category 6A patch cords with four pair twisted cable terminated with RJ45 modular plugs at both the ends.*
	Patch Cord should have TIA/EIA 568C.2 standard.
	backward compatible with Category 5e & Category 6 systems.
	Category 6A patch cord 100% factory made & performance tested.
	Category 6A patch cord length requires – 1 meter & 2 meter.
2.	***Performance Characteristics***
	Patch cord conductor 24 AWG, multi-strands.
	Patch cord conductor metal made from bare copper.
	Jacket material LSZH.
	Heat resistance of patch cord 75° Celsius.
3.	***Modular Connector/Plug Characteristics***
	Patch cord plug 50U gold plated.
	Contact blade of plug made from copper alloy.
	Category 6A patch cord plug should have maximum 500 MΩ, 1000V DC/min insulation resistance.
	Dielectric withstanding voltage 1000V DC/min, <0.5A.
4.	***Note***
	OEM for the cable box & all copper Accessories from same OEM.

2.19 Power Cable 2 Core 1.5 Sq mm

SECTION – VII
STANDARD CONDITIONS OF THE TENDER

1. Deliverables

- Fully functional AI Attendance System
- Installed hardware across classrooms
- Integrated attendance dashboard
- Training completion report
- Documentation and user manuals

2. Payment Terms

- 60% on delivery of hardware/software
- 20% after successful installation & commissioning
- 20% after acceptance and go-live

3. Warranty & AMC

- Minimum **3-year warranty**
- Post-warranty AMC for **3 years**

4. Penalty Clause

- Delay in implementation: 0.5% per week (max 10%)
- System downtime penalties as per SLA

5. Income Tax:

Every Bidder shall furnish along with the Tender the latest Income Tax Clearance Certificate without which his/her tender is liable to be rejected. The Institute will deduct amount towards Tax Deducted at Source (TDS) as per the latest Income Tax Rules from all payments made to the supplier/contractor.

6. Termination of Contract:

IIMS reserves the right to terminate the contract for any reason at its absolute discretion including, but not limited to the following:

a. If the Vendor is adjudicated insolvent by a Competent Court of Law or files for insolvency or the Agency's Company is ordered to be wound up by a Competent Court.
b. Vendor commits any material breach of the terms of this contract with IIMS or if found guilty of any malpractice in the performance of the Contract.
c. If any charge-sheet is filed by the Competent Authority of the Government against the Vendor is convicted by a criminal court on grounds of Moral turpitude.
d. In the event of non-satisfactory service or failure on the part of the Vendor or if the Vendor shall neglect to execute the Contract with due diligence or expedition or shall refuse or neglect to comply with any reasonable order given to him by IIMS in connection with the Project or shall contravene the provisions of the Contract, IIMS

shall have the option to terminate the Contract by giving one month notice and may get the procurement executed (either in part or in whole, as the case may be) by any alternate sources at the Vendor's risk and cost. In such an event the Vendor shall have no claims whatsoever against IIMS in consequence of such termination of the contract. The decision of IIMS in terminating the contract will be final and binding on the Vendor.

7. Force Majeure:

If either party is prevented from the performance of its obligations in whole or in part for reasons of Force Majeure, viz., acts of God, acts of Government, acts of public enemy, war, hostility, civil commotion, blockade, sabotages, riots, fire floods, earthquake, explosions, epidemics, strike and lawful lockout, the period of Force Majeure shall be excluded accordingly. If Force Majeure event(s) continue beyond the period of three months, the parties shall hold consultation to chalk out the further course of action. Neither party can claim any compensation from the other party on account of Force Majeure.

8. Conciliation:

Any dispute or difference whatsoever arising between the parties relating to or arising out of Contract, shall be settled first by Conciliation in accordance with the Govt. Rules and settlement so rendered between the parties in pursuance thereof shall be final and binding on the parties. Reference to Arbitration shall be made only when the Conciliation has failed.

9. Institute to be indemnified:

The Contractor shall at all times indemnify and keep indemnified the Institute and its officers, servants, agents and any other guest or person moving in the Campus Area premises from and against all third party claims whatsoever (including but not limited to property loss and damage, personal accident, injury or death of/to property or person of any Sub-contractor and/or the servants or agents of the contractor, any sub-contractor(s) and/or the Institute) and the contractor shall at his own cost and initiative at all times up to the successful conclusion of the Operation & Management period specified in Clause 22 hereof take out and maintain all insurable liabilities under this Clause, including but not limited to third party insurance and liabilities under the Motor Vehicles Act, Workmen's Compensation Act, Fatal Accidents Act, Personal Injuries Insurance Act, Emergency Risk Insurance Act and/or other Industrial Legislation from time to time in force in India.

10. Subcontracting:

The bidder will not subcontract or permit anyone other than the BIDDER personnel to perform any of the work, services or other performance required of the BIDDER under this agreement without the prior written consent of the IIMS.

11. Confidentiality:

The Bidder acknowledges that all material and information which has and will come into its possession or knowledge in connection with this agreement or the performance thereof, whether consisting of confidential and proprietary data or not, whose disclosure to or use by third parties may be damaging or cause loss to IIMS will all times be held by it in

strictest confidence and it shall not make use thereof other than for the performance of this agreement and to release it only to employees requiring such information and not to release or disclose it to any other party. The Bidder agrees to take appropriate action with respect to its employees to ensure that the obligations of non-use and non-disclosure of confidential information under this agreement are fully satisfied. In the event of any loss to the IIMS in divulging the information by the employees of the Bidder, IIMS shall be indemnified. The BIDDER agrees to maintain the confidentiality of the IIMS's information after the termination of the agreement also.

The BIDDER/IIMS will treat as confidential all data and information about the BIDDER/IIMS/Contract, obtained in the execution of this tender including any business, technical or financial information, in strict confidence and will not reveal such information to any other party.

12. Testing & Acceptance by IIMS:

- The items supplied under this contract shall be verified by IIMS to confirm that all the hardware supplied matches to the specifications and all the equipment are in good, working condition and are free from any physical defects/damages, till the time of site handover.

- Any other test(s), as IIMS may deem fit, so as to confirm the performance or to establish the technical specifications of either individual hardware item or for the integrated operation of network, shall be done by Supplier at the Site. Should the results of these tests show any deficiency from the corresponding specifications or operation is not up to the desired level of performance, Supplier shall do the necessary replacement so as to make the Hardware items to function at the desired level of performance. All costs for such replacements shall be borne by Supplier.

- After satisfactory completion of acceptance tests and installation of the equipment/ systems/software by the Vendor, the acceptance certificate will be issued by the IIMS in writing after which the Equipment shall be handed over to IIMS.

- Acceptance or waiver of tests will not relieve the Vendor from the responsibility to furnish material in accordance with the specifications.

- IIMS reserves the right to conduct any testing/benchmarking of previously approved materials at any stage before taking over of the system and if the same reveal noncompliance to the specifications, the Vendor shall take necessary action so that the material/system/software conforms to the specifications to the satisfaction of the Engineer In-Charge.

SECTION – VIII

TECHNICAL & FINANCIAL EVALUATION

Stage 1: Technical Evaluation:

- Submission: Participating bidders must upload all requisite documents as specified in the checklist at Annexure-I to V
- Evaluation: The evaluation committee will review the submitted documents. Only bidders who meet all technical criteria will be shortlisted for the next stage.
- Result: The list of technically qualified bidders will be officially published on the CPP Portal.

Stage 2: Financial Evaluation:

- Submission: Participating bidders must submit their financial quotes using the Bill of Quantities (BOQ) format provided in Annexure-VII.
- Evaluation: The evaluation committee will open the financial bids only for the technically qualified bidders to determine the Lowest 1 (L1) bidder.
- Result: The final results and the selection of the financially qualified L1 bidder will be published and uploaded to the CPP Portal.

SECTION – IX
PROOF OF CONCEPT (POC)

1. The bidder otherwise found eligible shall be required to demonstrate a Proof of Concept (PoC) of the proposed AI-based Student Attendance System to validate the functional, technical and performance capabilities of the solution in a real environment.

2. The PoC shall include, but not limited to, the following functionalities:

   a) Accurate identification of students using AI/facial recognition technology proposed by the bidder
   b) Real-time attendance marking with timestamp and location tagging
   c) Capability of the system to schedule multiple attendance frequency during a session
   d) Handling of multiple students simultaneously (up to 150) in a classroom environment
   e) Capability of the system to mark in/out time of an employee
   f) Vehicle number plate recognition capability
   g) Integration capability with existing institutional systems
   h) Generation of attendance reports and analytics

3. The PoC shall be conducted at a classroom designated by the institute. The bidder shall arrange all necessary hardware, software and connectivity required for the demonstration.

4. The PoC will be evaluated based on the following minimum criteria:

   a) Recognition accuracy to be more than98%
   b) System response time and processing speed
   c) Reliability under varying lighting and environmental conditions
   d) Data security and privacy compliance
   e) Ease of use and user interface

5. The PoC shall be evaluated by a committee constituted by the institute. Only those bidders whose solutions successfully meet the PoC requirements and performance benchmarks shall be considered for further technical and financial evaluation.

6. The bidder shall complete the PoC within ten days from the date of intimation. Any delay may lead to disqualification unless formally approved.

7. All costs associated with the PoC, including deployment, logistics and demonstration, shall be borne entirely by the bidder. No additional payment shall be made by the institute for conducting the PoC.

8. In case the bidder fails to successfully demonstrate the PoC as per the specified requirements, the bid shall be rejected without any further consideration.

9. The bidder shall ensure that any data used during the PoC is handled securely and in compliance with applicable data protection laws. No data shall be retained or used beyond the PoC without prior written consent.
10. The institute reserves the right to modify, waive or extend the PoC requirements at its sole discretion without assigning any reason.

ANNEXURE - I

FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF AI-BASED STUDENT ATTENDANCE SYSTEMIN THE INSTITUTE CAMPUS.

(NIT No. IIMS/PUR/AI-based attendance system/06/2026-27 Dated 11.11.2026)
Bidder's credentials for Pre-qualification

Sr.	Clarification sought	Details to be furnished	
1	Name of the authorized signatory Contact Address Email Address: Telephone No. Mobile No.		
2	Type of company/organization (please tick)	☐ Private Limited Company ☐ Public limited Company ☐ Others (specify)	
3	Year of Incorporation		
4	Has the company/organization ever been black-listed by Govt. of India, if No, please attach a self-deceleration		
5	Average annual turnover during the financial years:	YEAR	AMOUNT (Rs lakhs)
		2023-24	
		2024-25	
		2025-26	
6	Confirm whether the company/organization is a systems integrator with proven skills and experience in designing, setting up, operating and maintaining similar AV systems and facilities? Please attach the completion certificate as a proof for expertise		
7	Number of similar projects executed during last 5 years:	Value	Number
		Not less than 135 lakhs	
		Not less than 165 lakhs	
		Not less than 265lakhs	
8	Total number of above projects executed during last 2 financial years		
	Number of qualified technical personnel	ALL INDIA	
		Himachal Pradesh	
9	Confirm whether company/organization has local support facility (please tick)	☐ YES ☐ NO	

[Note: Please attach documentary proof in support of the information furnished above, wherever necessary, duly signed by the authorized signatory]

Date: (Signature of Authorized Signatory)

ANNEXURE - II

UNDERTAKING FROM THE BIDDER
(On Company's/Firm's Letter Head)

To
The Director
Indian Institute of Management Sirmaur
IIM Sirmaur Campus, Dhaula Kuan, Distt. Sirmaur, Himachal Pradesh
Pin: 173031

1. I/We hereby unconditionally accept all terms and conditions mentioned in the Bid for "SUPPLY, INSTALLATION, and TESTING AND COMMISSIONING OF AI-BASED STUDENT ATTENDANCE SYSTEMIN THE INSTITUTE CAMPUS.

2. I/We hereby undertake that all the information provided in the Bid is true and if any information is found to be false or have been suppressed by me the Bid is liable to be rejected.

The warranty/guarantee on the items proposed will be for Minimum **3-year warranty** & **Post-warranty AMC for 3 years**. The bidder undertakes to repair/replace the entire equipment or the defective/damaged part at no cost to IIM Sirmaur during the warranty period.

3. I/We hereby certify that the Firm/Company is free from encumbrance and there was no vigilance / CBI enquiry or Court Case against us in the past and any such enquiry / case are pending against us.

Date:
Place:

(Authorized Signatory)
Name & Designation
Name of the Agency & Address

ANNEXURE - III

FORMAT OF BID SECURITY DECLARATION FROM BIDDERS IN LIEU OF EMD

(On Bidders Letter head)

I/We, the authorized signatory of M/s..... , participating in the subject tender No IIMS/PUR/AI-based attendance system/06/2026-27 for "For Supply, Installation, Testing and Commitssioning AI Bassed Attendance System in the Institute Campus do hereby declare:

1. That I/we have availed the benefit of waiver of EMD while submitting our offer against the subject Tender and no EMD being deposited for the said tender.
2. That I/we have exempted from EMD and here by submitting the supporting documents (MSME/Udhyam certificate) along with the Bid Security Declaration (Under GFR rule 170).
3. That in the event we withdraw/modify our bid during the period of validity Or I/we fail to execute formal contract agreement within the given timeline OR I/we fail to submit a Performance Security within the given timeline Or I/we commit any breach of Tender Conditions/Contract will attracts penal action as applicable and the matter will be escalated to the appropriate authority for suitable action.

Date:
Place:

(Authorized Signatory)
Name & Designation
Name of the Agency & Address

ANNEXURE - IV

AFFIDAVIT CERTIFYING THAT THE BIDDER IS NOT BLACKLISTED / DEBARRED OR NOT INDULGED IN CORRUPT OR FRAUDULENT PRACTICES

(On Rs. 100/- Non-Judicial Stamp Paper)

Certified that,

I/We have not been debarred or Blacklisted or Suspended from any department of Government of India/State Government/PSU/any other Government/Semi Government Department, etc., during the last three years from the bid due date.

I/We have not directly, indirectly or through an agent engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, in respect of any tender or request for proposal issued by or any Agreement entered with Authority or any other public sector enterprise or any government, Central or State.

Date:
Place:

(Authorized Signatory)
Name & Designation
Name of the Agency & Address

ANNEXURE - V

CHECK LIST
(To be filled in by the bidder for the Technical Bid)

1. Name of the Bidder:
2. Complete Office Address:

3. Contact No:
4. Email ID:
5. Bidder's Website (if any):

Sl. No.	Description	Remark	Attached (Yes/No) If Yes Page No
1	Bidder's credentials for Pre-qualification (ANNEXURE – I)		
2	Undertaking duly signed by the Bidder (Annexure - II)		
3	EMD remittance details: Rs. _____/-	DD No: Amount: Date:	
4	Format of bid security declaration from bidders in lieu of EMD (Annexure - III)	Yes/No	
5	Declaration about not being black-listed duly signed by the tenderer. (Annexure - IV)	Yes/No	
7	The Tenderer should provide warranty/guarantee and Free Service for a period of 3 Years from the date of installation. Undertaking this effect shall be furnished in Annexure - II	Yes/No	
8	MSME/Udhyam registered (If applicable)	Copy to be attached	
9	Any other additional information	Copy to be attached	
10	Technical Bid		
11	Financial Bid		
12	Any other information that may be relevant to this bid		

I/We.....
.....hereby declare that the particulars furnished by me/us in this offer are true to the best of my/our knowledge and I/We understand and accept that, if at any stage, the information furnished by me/us are found to be incorrect or false, I/We am/are liable for disqualification from this tender and also liable for any penal action that may arise due to the above, besides being black listed.

Date:
Place:

(Authorized Signatory)
Name & Designation
Name of the Agency & Address

ANNEXURE – VI

Pre-Bid Query Format

Pre-bid queries should be submitted in .XLS format.

Tender Description	
Tender No.	IIMS/AI-based attendance system/6/2026-27
Bidder's Organization	
Address	
Contact Person	
Contact No.	
Mail Id	

S. No.	Clause No.	Page No.	Clause as per Tender	Clarification Sought
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				

ANNEXURE - VII

Financial Bid

Sr No.	Item	Qty	Unit	Total Rate (Inclusive all Taxes)
1	8 MP Motorized Varifocal Dome Camera with 50 Mtrs IR.	100	No's	
2	8 MP Motorized Varifocal Bullet Camera with 60 Mtrs IR.	2	No's	
3	4 MP Automatic Number Plate Reading Camera	2	No's	
4	08 Channel NVR with 2 Sata Slot	1	No's	
5	128 Channel NVR with 8 Sata Slot	2	No's	
6	Hard-disk 16 TB	10	No's	
7	Workstation (i7 14th Generation, GPU5070 - 12GB, 64GB RAM, 500 GB + 2TB SSD)	1	No.	
8	24 Port 10/100/1000 POE Switch with 4 SFP Module	8	No.	
9	SFP Module	8	No's	
10	9U Network Rack	8	No's	
11	18U Network Rack	2	No's	
12	24 Port Loaded Patch Panel	10	No's	
13	PVC Conduit	5000	Mtrs	
14	12 Port Loaded LIU	8	No's	
15	Cat 6 Cable	10000	Mtrs	
16	CCTV Mounting Box	105	No's	
17	6 Core Single Mode OFC	1000	Mtrs	

18	1 Mtr Patch Cord	105	No's	
19	Power Cable 2 Core 1.5 mm	1000	Mtrs	
20	Installation Charges	1	Job	

S.N		No of Students	Total Price (Inclusive all taxes)
1	CCTV Classroom Attendance Software	1000	
2	One-Time Implementation Charges		
	Grand Total		

Note: The BOQ mentioned above are for reference purpose only. The actual financial bid BOQ is to be submitted online on the CPP Portal in .xlsx format only, otherwise, the bid will be summarily rejected.