



## रेलटेल कॉर्पोरेशन ऑफ इंडिया लिमिटेड

(भारत सरकार का उपक्रम, रेल मंत्रालय)

सूचीबद्ध व्यावसायिक सहयोगियों या OEM या OEM द्वारा अधिकृत भागीदार/वितरक में से भागीदार के चयन के लिए

"आईईएचई भोपाल में पुस्तकालय के लिए सीसीटीवी निगरानी और वाईफाई नेटवर्क की आपूर्ति और स्थापना हेतु व्यावसायिक सहयोगी का चयन"

ईओआई नंबर: रेलटेल/डब्ल्यूआर/एमपी/आईईएचई-भोपाल/ईओआई/2025-26/09 दिनांक: 09 जुलाई 2025

प्लॉट नंबर 17, पहली मंजिल, रघुनाथ नगर, शाहपुरा पुलिस स्टेशन के पास,  
भोपाल एमपी-462039

## ईओआई नोटिस

रेलटेल कॉर्पोरेशन ऑफ इंडिया लिमिटेड, प्लॉट नंबर 17, प्रथम तल, रघुनाथ नगर, शाहपुरा  
पुलिस स्टेशन के पास, भोपाल एमपी - 462039

ईओआई नंबर: रेलटेल/डब्ल्यूआर/एमपी/आईईएचई-भोपाल/ईओआई/2025-26/09 दिनांक: 09 जुलाई 2025

रेलटेल कॉर्पोरेशन ऑफ इंडिया लिमिटेड, (जिसे आगे "रेलटेल" कहा जाएगा) "आईईएचई भोपाल में पुस्तकालय के लिए सीसीटीवी निगरानी और वाईफाई नेटवर्क की आपूर्ति और स्थापना हेतु व्यावसायिक सहयोगी का चयन" दस्तावेज जारी कर रहा है जो की रेलटेल के सूचीबद्ध भागीदारों या ओईएम या ओईएम के अधिकृत भागीदार/वितरक के लिए वैध है।

विवरण निम्नानुसार है:

1	बोलीदाताओं द्वारा ईओआई के विरुद्ध बोली प्रतिक्रिया पैकेट प्रस्तुत करने की अंतिम तिथि	15 जुलाई 2025 को 02:00 बजे
2	ईओआई के बोली प्रतिक्रिया पैकेट का उद्घाटन	15 जुलाई 2025 को 02:30 बजे
3	कार्य के दायरे के लिए प्रस्तुत की जाने वाली प्रतियों की संख्या	एक
4	ईएमडी राशि	रु. 6,000/- (केवल छह हजार)
5	निविदा शुल्क और प्रसंस्करण शुल्क	रु. 1,295/- (केवल एक हजार दो सौ पंचानवे)

ईएमडी रेलटेल कॉर्पोरेशन ऑफ इंडिया लिमिटेड के पक्ष में होनी चाहिए और मुंबई में ऑनलाइन बैंक ट्रांसफर के माध्यम से देय होगी। पार्टनर को प्रस्ताव के साथ ऑनलाइन भुगतान हस्तांतरण विवरण जैसे यूटीआर नंबर, तारीख और बैंक को साझा करना होगा।

**रेलटेल बैंक विवरण: यूनियन बैंक ऑफ इंडिया, खाता संख्या 317801010036605, IFSC कोड - UBIN0531782, शाखा का नाम - महालक्ष्मी शाखा**

योग्य व्यावसायिक सहयोगी/ओईएम/ओईएम के अधिकृत साझेदार या वितरक को ईओआई दस्तावेज के लिए इस आमंत्रण से संबंधित सभी संचार निम्नलिखित नामित संपर्क व्यक्तियों के माध्यम से निर्देशित करना आवश्यक है:

स्तर:1 संपर्क: श्री आनंद कुमार

पद: संयुक्त महाप्रबंधक/विपणन

ईमेल: [anandnkn@railtelindia.com](mailto:anandnkn@railtelindia.com), संपर्क: +91-9004444107

स्तर:2 संपर्क: श्री पवन कुमार भार्गव

पद: ईडी/टीएम/भोपाल

ईमेल: [pavan@railtelindia.com](mailto:pavan@railtelindia.com)

Note:

1. Empaneled partners/OEMs/authorized partner or distributor of OEMs are required to submit soft copy (password protected PDF) of bid response packet (separate for Technical bid and Financial Bid) through an e-mail at [bpltooffice@railtelindia.com](mailto:bpltooffice@railtelindia.com) duly signed by Authorized Signatories with Company seal and stamp. **The size of both the files should not exceed 20 Mb.**
2. **The OEMs need not be prior empaneled Business Associates, given their proven technical prowess. However,** The EOI response is invited from eligible **Empaneled Partners of RailTel only in case of participation by Business Associates.**
3. The password will be sought at the time of opening of the bid response packet.
4. All the documents must be submitted with proper indexing and page no.
5. This is an **exclusive arrangement with empaneled business associate/OEMs/ authorized partner or distributor of OEM of RailTel for fulfilling the end customer requirements.** Selected partner's authorized signatory has to give an undertaking they will not submit directly or indirectly their bids and techno-commercial solution/association with any other organization once selected through this EOI (before and after submission of bid to prospective organization by RailTel). This undertaking has to be given with this EOI Response.
6. **Transfer and Sub-letting.** The Business Associate/OEMs/authorized partner or distributor of OEM has no right to give, bargain, sell, assign or sublet or otherwise dispose of the Contract or any part thereof, as well as to give or to let a third party take benefit or advantage of the present Contract or any part thereof.

## 1. Introduction about RailTel

**RailTel Corporation of India Limited (RailTel)**, an ISO-9001:2000 organization is a “**Navratna**” company under Ministry of Railways, Government of India. The Corporation was formed in Sept 2000 with the objectives to create nationwide Broadband Telecom and Multimedia Network in all parts of the country, to modernize Train Control Operation and Safety System of Indian Railways and to contribute to realization of goals and objective of national telecom policy 1999. RailTel is a wholly owned subsidiary of Indian Railways.

RailTel has approximately 70000 kms of OFC along the protected Railway tracks. The transport network is built on high capacity DWDM and an IP/ MPLS network over it to support mission critical communication requirements of Indian Railways and other customers. RailTel has Tier-III Data Center in Gurgaon and Secunderabad hosting / collocating critical applications. RailTel is also providing Telepresence as a Service (TPaaS), where a High- Definition Video Conference facility bundled with required BW is provided as a Service.

For ensuring efficient administration across India, country has been divided into four regions namely, Eastern, Northern, Southern & Western each headed by Executive Director and Headquartered at Kolkata, New Delhi, Secunderabad & Mumbai respectively. These regions are further divided into territories for efficient working. RailTel has territorial offices at Guwahati, & Bhubaneswar in East, Chandigarh, Jaipur, Lucknow in North, Chennai & Bangalore in South, Bhopal, and Pune & Ahmedabad in West. Various other territorial offices across the country are proposed to be created shortly.

RailTel’s business service lines can be categorized into three heads namely B2G/B2B (Business to Government and Business to Business) and B2C (Business to customers):

Licenses & Service portfolio:

Presently, RailTel holds Infrastructure Provider -1, National Long-Distance Operator, International Long-Distance Operator and Internet Service Provider (Class-A) licenses under which the following services are being offered to various customers:



**a) Carrier Services**

- National Long Distance: Carriage of Inter & Intra -circle Voice Traffic across India using state of the art NGN based network through its Interconnection with all leading Telecom Operators
- Lease Line Services: Available for granularities from E1 to multiple of Gigabit bandwidth & above
- Dark Fiber/Lambda: Leasing to MSOs/Telco's along secured Right of Way of Railway tracks
- Co-location Services: Leasing of Space and 1000+ Towers for collocation of MSC/BSC/BTS of Telco's

**b) Enterprise Services**

- Managed Lease Line Services: Available for granularities from E1, DS-3, STM-1 & above
- MPLS VPN: Layer-2 & Layer-3 VPN available for granularities from 2 Mbps & above
- Dedicated Internet Bandwidth: Experience the "Always ON" internet connectivity at your fingertips in granularities 2 Mbps to several Gbps

**c) DATA CENTER** Infrastructure as a service (IaaS), Hosting as Services, Security operation Centre as a Service (SOCaaS): RailTel has MeitY empaneled two Tier-III data centres in Gurgaon & Secunderabad. Presently RailTel is hosting critical applications of Indian Railways, Central & State government/ PSUs applications. RailTel will facilitate Government's applications / Hosting services including smooth transition to secured state owned RailTel's Data Centers and Disaster Recovery Centres. RailTel also offers SOC as a Service 'SOCaaS'. In addition, RailTel offers VPN client services so that employees can seamlessly access government's intranet, applications securely from anywhere without compromising security.

- National Long Distance: Carriage of Inter & Intra -circle Voice Traffic across India using state of the art NGN based network through its Interconnection with all leading Telecom Operators
- Lease Line Services: Available for granularities from E1 to multiple of Gigabit bandwidth & above
- Dark Fiber/Lambda: Leasing to MSOs/Telco's along secured Right of Way of Railway tracks
- Co-location Services: Leasing of Space and 1000+ Towers for collocation of MSC/BSC/BTS of Telco's

**d) High-Definition Video Conference:** RailTel has unique service model of providing high-definition video conference bundled with Video Conference equipment, bandwidth and FMS services to provide end to end seamless services on OPEX model connecting HQ with other critical offices. RailTel also offers application-based video conference solution for employees to be productive specially during this pandemic situation.

**e) Retail Services – RailWire**

RailWire: Triple Play Broadband Services for the Masses. RailTel has unique model of delivering broadband services, wherein local entrepreneurs are engaged in delivering &

maintaining broadband services and upto 66% of the total revenues earned are shared to these local entrepreneurs in the state, generating jobs and revitalizing local economies. On date RailTel is serving approx. 4,00,000 subscribers on PAN Indian basis. RailTel can provide broadband service across— Government PSU or any organization's officers colonies and residences.

## **2. Project Background and Objective of EOI**

RailTel intends to participate in the work for **“Selection of Business Associate for Supply and Installation of CCTV Surveillance and Wi-Fi Network for Library, at IEHE Bhopal”** RailTel invites EOIs from RailTel's Empaneled Partners/OEMs/authorized partner or distributor of OEMs for the selection of suitable partner for participating in above mentioned work for the agreed scope work. The empaneled partner/OEMs/authorized partner or distributor of OEMs is expected to have excellent execution capability and good understanding customer local environment.

## **3. Scope of Work**

The scope of work is to **“Selection of Business Associate for Supply and Installation of CCTV Surveillance and Wi-Fi Network for Library, at IEHE Bhopal”** as per there requirement. The above scope of work is indicative, and the detailed scope of work will be shared after the completion of the EOI process.

In case of any discrepancy or ambiguity in any clause/specification pertaining to the scope of work area, the decision of the end customer organization shall supersede and will be considered sacrosanct. (All associated clarifications, response to queries, revisions, addendum and corrigendum, associated prime service agreement (PSA)/MSA/SLA also included.)

**Special Note: RailTel may retain some portion of the work mentioned in the end organization RFP, where RailTel has competence so that overall proposal becomes most winnable proposal. Scope of Work and payment terms shall be on a back-to-back basis as per the end customer RFP.**

## 4. Response to EOI guidelines

### 4.1 Language of Proposals

The proposal and all correspondence and documents shall be written in English in password protected PDF file through an email (size of email should not exceed 20Mb) to [bpltooffice@railtelindia.com](mailto:bpltooffice@railtelindia.com).

### 4.2 RailTel's Right to Accept/Reject responses

RailTel reserves the right to accept or reject any response and annul the bidding process or even reject all responses at any time prior to selecting the partner, without thereby incurring any liability to the affected bidder or Business Associate/OEM/authorized partner or distributor of OEM or without any obligation to inform the affected bidder or bidders about the grounds for RailTel's action.

### 4.3 EOI response Document

The bidder is expected to examine all instructions, forms, terms and conditions and technical specifications in the bidding documents. Submission of bids, not substantially responsive to the bidding document in every aspect will be at the bidder's risk and may result in rejection of its bid without any further reference to the bidder.

All pages of the documents shall be signed by the bidder including the closing page in token of his having studied the EOI document and should be submitted along with the bid.

### 4.4 Period of Validity of bids and Bid Currency

Bids shall remain valid for 180 days from the date of submission.

### 4.5 Bidding Process

The bidding process as defined in para 9.

### 4.6 Bid Earnest Money (EMD)

- 4.6.1 The Business Associate shall furnish a sum as given in EOI Notice via online transfer from any scheduled bank in India in favor of "RailTel Corporation of India Limited" along with the offer.
- 4.6.2 Offers not accompanied with valid EOI Earnest Money Deposit shall be summarily rejected.
- 4.6.3 In case of Business Associate's offer is selected for bidding, a BA has to furnish Earnest Money Deposit (for balance amount as mentioned in the customer's Bid as and if applicable) for the bid to RailTel. The selected Business Associate shall have to submit a Bank Guarantee against EMD in proportion to the quoted value/scope of work to RailTel before submission of bid to end customer, as and if applicable.

- 4.6.4 EMD and Tender Fees will be deposited in the form of Online Bank Transfer.
- 4.6.5 The validity of such EMD shall be maintained till the finalization of end Customer RFP/Tender i.e. award of order and till submission of Performance Guarantee of requisite value required by end customer on back-to-back basis.
- 4.6.6 **Return of EMD for unsuccessful Business Associates:** Final EMD of the unsuccessful Business Associate shall be returned without interest after completion of EOI process (i.e. after pre-bid agreement is signed with the selected partner)
- 4.6.7 **Return of EMD for successful Business Associate:** Final Earnest Money Deposit (balance proportionate EMD) if applicable of the successful bidder will be discharged / returned as promptly as possible after the receipt of RailTel's EMD/BG from the Customer and or on receipt of Security Deposit Performance Bank Guarantee as applicable (clause no. 4.7) from Business Associate whichever is later.
- 4.6.8 **Forfeiture of Token EOI EMD or EMD (balance proportionate EMD) and or Penal action as per EMD Declaration:**
- 4.6.8.1 The EOI EMD may be forfeited and or penal action shall be initiated if a Business Associate withdraws his offer or modifies the terms and conditions of the offer during validity period.

#### 4.7 Security Deposit / Performance Bank Guarantee (PBG)

- 4.7.1 In case the bid is successful, the PBG of requisite amount proportionate to the agreed scope of the work will have to be submitted to RailTel.
- 4.7.2 As per work share arrangements agreed between RailTel and Business Associate the PBG will be proportionately decided and submitted by the selected Business Associate.

#### 4.8 Last date & time for Submission of EOI response

EOI response must be submitted to RailTel at the email address specified in the preamble not later than the specified date and time mentioned in the preamble.

#### 4.9 Modification and/or Withdrawal of EOI response

EOI response once submitted will be treated, as final and no modification will be permitted except with the consent of the RailTel. No Business Associate shall be allowed to withdraw the response after the last date and time for submission.

The successful Business Associate will not be allowed to withdraw or back out from the response commitments. In case of withdrawal or back out by the successful business associate, the Earnest Money Deposit shall be forfeited, and all interests/claims of such Business Associate shall be deemed as foreclosed.

#### 4.10 Clarification of EOI Response

To assist in the examination, evaluation and comparison of bids the purchaser may, at its discretion, ask the Business Associate for clarification. The response should be in writing and no change in the price or substance of the EOI response shall be sought, offered or permitted.

#### 4.11 Period of Association/Validity of Agreement

RailTel will enter into agreement with selected bidder with detailed Terms and conditions.

### 5. Pre-Qualification Criteria for Bidding Business Partner of RailTel

S No.	Particulars	Criteria for Tender Package
A)	<b>Financial Conditions</b>	
1	BA's LOA should not be expired on date of submission of proposal and should have at least 3 years of operations in India as on bid submission date.	1. Valid Empanelment letter issued by RailTel 2. Certificate of Incorporation 3. GST Registration 4. PAN Card
2	The minimum average annual financial turnover of the bidder during the last three years, ending on 31't March of the previous financial year should be Rupees 1 Crore.	Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. Certificate should contain UDIN no. Product OEM must have to submit Indian CA Certified Turnover Certificate from last 3 years. And profit & Loss and Balance Sheet from last 3 years.
3	1. The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products of value at least Rupees 50,000 in one of the last three financial years before the bid opening date to any Central / State Govt Organization / PSU / Public Listed Company. Copies of relevant contracts (provingly of cumulative order quantity in any one financial year) to be submitted alongwith bid in quantity supplied in the relevant financial year. 2. Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Government Organization IPSU / Public Listed Company for last 03 financial years, before the bid opening date.	Copies of relevant PO and respective service completion certificate to be submitted along with bid in support of having supplied some quantity during each of the financial year.

4	The participating bidder should be a currently active empanelled business associate of RailTel or OEM(s) or its authorized partner/distributor.	Documentary proof of empanelment along with proof of empanelment Fee to be submitted.  Or Documentary proof of OEM (Self undertaking and Manufacturer's Authorization Certificate)
5	Bidder should not have been blacklisted by any State or Central Government as on the bid submission date.	Undertaking on company's letter head
6	Bidder must have registered Office in Bhopal (Madhya Pradesh) for Onsite service support within 6 Hours after lock the complaint.	Bidder must have to submit registration Government documentary proof like: Gumasta, GST Certificate, MSME, Incorporation Certificates.

S No.	Particulars	Criteria for Tender Package
		(Mandatory Compliance & Document Submission)
B)	<b>Annexures</b>	
1	<b>Annexure 1</b>	<b>Covering Letter:</b> Self-certification duly signed by authorized signatory on company letter head.
2	<b>Annexure 2</b>	The Bidder should agree to abide by all the technical, commercial & financial conditions of the end customer RFP for which EOI is submitted.
		Self-certification duly signed by authorized signatory on company letter head.
3	<b>Annexure 3</b>	An undertaking signed by the Authorized Signatory of the company to be provided on letter head. The Bidder should not have been blacklisted / debarred by any Governmental / Non-Governmental Organization in India as on bid submission date.
4	<b>Annexure-4</b>	Format for Affidavit to be uploaded by BA along with the tender documents.
5	<b>Annexure-5</b>	Non-disclosure agreement with RailTel.
6	<b>Annexure-6</b>	BOQ of the RFP document. Price Bid Format to be submitted in separate password protected pdf.
7	<b>Annexure-7</b>	Power of Attorney <b>or</b> Board Resolution in favor of one of its employees who will sign the Bid Documents.
8	<b>Additional Documents to be Submitted</b>	Technical Proposal with overview of the project with strength of the Partner.

## 5. Bidder's Profile

The bidder shall provide the information in the below table:

S. No.	ITEM	Details
1.	Full name of bidder's firm	
2.	Full address, telephone numbers, fax numbers, and email address of the primary office of the organization / main / head / corporate office	
3.	Name, designation and full address of the Chief Executive Officer of the bidder's organization as a whole, including contact numbers and email Address	
4.	Full address, telephone and fax numbers, and email addresses of the office of the organization dealing with this tender	
5.	Name, designation and full address of the person dealing with the tender to whom all reference shall be made regarding the tender enquiry. His/her telephone, mobile, Fax and email address	
6.	Bank Details (Bank Branch Name, IFSC Code, Account number)	
7.	GST Registration number	

## 6. Evaluation Criteria

- 6.1 The Business Associates are first evaluated on the basis of the Pre-Qualification Criteria as per clause 5 above.
- 6.2 The Business Associate who meets all the Pre-qualification criteria, their price bid will be evaluated. The Lowest (L1) price bidder will be selected and entered into agreement with for delivery of the work on back-to-back basis for the agreed scope of work.
- 6.3 RailTel reserves the right to further re-negotiate the prices with eligible L1 bidder. Selected bidder must ensure the best commercial offer to RailTel to offer the most winnable cost to customer.
- 6.4 RailTel also reserves the right to accept or reject the response against this EOI, without assigning any reasons. The decision of RailTel is final and binding on the participants. The RailTel evaluation committee will determine whether the proposal/ information is complete in all respects and the decision of the evaluation committee shall be final. RailTel may at its discretion assign lead factor to the Business associate as per RailTel policy for shortlisting partner against this EOI. RailTel also reserves the right to negotiate the price with the selected bidder.

- 6.5 All General requirement mentioned in the Technical Specifications are required to be complied. The solution proposed should be robust and scalable.

## 7. Payment terms

- 7.1 RailTel shall make payment to selected Business Associate after receiving payment from Customer for the agreed scope of work. In case of any penalty or deduction made by customer for the portion of work to be done by BA, same shall be passed on to Business Associate.
- 7.2 All payments by RailTel to the Partner will be made after the receipt of payment by RailTel from end Customer organization.

## 8. SLA

The selected bidder will be required to adhere to the SLA matrix if/as defined by the end Customer. SLA breach penalty will be applicable proportionately on the selected bidder, as specified by the end Customer. The SLA scoring and penalty deduction mechanism for in-scope of work area shall be followed as specified by the customer. All associated clarifications, responses to queries, revisions, addendum and corrigendum, associated Prime Services Agreement (PSA)/ MSA/ SLA also included. Any deduction by Customer from RailTel payments on account of SLA breach which is attributable to Partner will be passed on to the Partner proportionately based on its scope of work.

## 9. Other Terms and Conditions

Any other terms and conditions in relation to SLA, Payments, PBG etc. will be as per the PO/agreement/Work Order/RFP of the end customer.

**Note: Depending on RailTel's business strategy RailTel may choose to work with Partner who is most likely to support in submitting a winning bid.**

**Annexure 1: Format for COVERING LETTER**  
COVERING LETTER (To be on company letter head)

EoI Reference No:

Date :

To,

RailTel Corporation of India Ltd.  
Plot No. 17, First Floor,  
Raghunath Nagar,  
Near Shahpura Thana,  
Bhopal, M.P. - 462039

Dear Sir,

SUB: Participation in the EoI process

Having examined the Invitation for EoI document bearing the ref. no. \_\_\_\_\_ released by your esteemed organization, we, undersigned, hereby acknowledge the receipt of the same and offer to participate in conformity with the said Invitation for EoI document.

If our application is accepted, we undertake to abide by all the terms and conditions mentioned in the said Invitation for EoI document.

We hereby declare that all the information and supporting documents furnished as a part of our response to the said Invitation for EoI document, are true to the best of our knowledge. We understand that in case any discrepancy is found in the information submitted by us, our EoI is liable to be rejected.

We hereby Submit EMD amount of Rs. \_\_\_\_\_ issued vide \_\_\_\_\_ from Bank \_\_\_\_\_.

Authorized Signatory

Name

Designation

**Annexure 2: Format for Self-Certificate & Undertaking**  
Self-Certificate (To be on company letter head)

EoI Reference No:

Date:

To,

RailTel Corporation of India Ltd.  
Plot No. 17, First Floor,  
Raghunath Nagar,  
Near Shahpura Thana,  
Bhopal, M.P. - 462039

Dear Sir,

**Sub: Self Certificate for Tender, Technical & other compliances**

- 1) Having examined the Technical specifications mentioned in this EOI & end customer tender, we hereby confirm that we meet all specification.
- 2) We agree to abide by all the technical, commercial & financial conditions of the end customer RFP for which EOI is submitted (except pricing, termination & risk purchase rights of the RailTel). We understand and agree that RailTel shall release the payment to selected BA after the receipt of corresponding payment from end customer by RailTel. Further we understand that in case selected BA fails to execute assigned portion of work, then the same shall be executed by RailTel through third party or departmentally at the risk and cost of selected BA.
- 3) We agree to abide by all the technical, commercial & financial conditions of the end customer's RFP for the agreed scope of work for which this EOI is submitted.
- 4) We hereby agree to comply with all OEM technical & Financial documentation including MAF, Technical certificates/others as per end-to-end requirement mentioned in the end customer's RFP. We are hereby enclosing the arrangement of OEMs against each of the BOQ item quoted as mentioned end customer's RFP. We also undertake to submit MAF and other documents required in the end Customer organization tender in favour of RailTel against the proposed products.
- 5) We hereby undertake to work with RailTel as per end customer's RFP terms and conditions. We confirm to submit all the supporting documents constituting/ in compliance with the Criteria as

required in the end customer's RFP terms and conditions like technical certificates, OEM compliance documents.

- 6) We understand and agree that RailTel is intending to select a BA who is willing to accept all terms & conditions of end customer organization's RFP for the agreed scope of work. RailTel will strategies to retain scope of work where RailTel has competence.
- 7) We hereby agree to submit that in case of being selected by RailTel as BA for the proposed project (for which EOI is submitted), we will submit all the forms, appendix, relevant documents etc. to RailTel that is required and desired by end Customer well before the bid submission date by end customer and as and when required.
- 8) We hereby undertake to sign Pre-Bid Agreement and Non-Disclosure Agreement with RailTel on a non-judicial stamp paper of Rs. 100/- in the prescribed Format.

Authorized Signatory Name & Designation

**Annexure 3: Undertaking for not Being Blacklisted/Debarred**

<On Company Letter Head>

To,

RailTel Corporation of India Ltd.  
Plot No. 17, First Floor,  
Raghunath Nagar,  
Near Shahpura Thana,  
Bhopal, M.P. - 462039

Subject: Undertaking for not Being Blacklisted/Debarred

We, Company Name, having its registered office at address  
hereby declares that that the Company has not been blacklisted/debarred by any Governmental / Non-Governmental organization in India for past 3 Years as on bid submission date.

Date and Place

Authorized Signatory's Signature:

Authorized Signatory's Name and Designation:

Bidder's Company Seal:

#### **Annexure 4: Format of Affidavit**

##### **FORMAT FOR AFFIDAVIT TO BE UPLOADED BY BA ALONGWITH THE EOI DOCUMENTS**

(To be executed in presence of Public notary on non-judicial stamp paper of the value of Rs. 100/-.  
The paper has to be in the name of the BA) \*\*

I..... (Name and designation) \*\* appointed as the attorney/authorized signatory of the BA (including its constituents),

M/s \_\_\_\_\_ (hereinafter called the BA) for the purpose of the EOI documents for the work of \_\_\_\_\_ as per the EOI No. \_\_\_\_\_ of (RailTel Corporation of India Ltd.), do hereby solemnly affirm and state on the behalf of the BA including its constituents as under:

1. I/we the BA (s), am/are signing this document after carefully reading the contents.
2. I/we the BA(s) also accept all the conditions of the EOI and have signed all the pages in confirmation thereof.
3. I/we hereby declare that I/we have downloaded the EOI documents from RailTel website [www.railtelindia.com](http://www.railtelindia.com). I/we have verified the content of the document from the website and there is no addition, no deletion or no alternation to be content of the EOI document. In case of any discrepancy noticed at any stage i.e. evaluation of EOI, execution of work or final payment of the contract, the master copy available with the RailTel Administration shall be final and binding upon me/us.
4. I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5. I/we also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
6. I/we declare that the information and documents submitted along with the EOI by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
7. I/we undersigned that if the certificates regarding eligibility criteria submitted by us are found to be forged/false or incorrect at any time during process for evaluation of EOI, it shall lead to forfeiture of the EOI EMD besides banning of business for five years on entire RailTel. Further, I/we (insert name of the BA) \*\* \_\_\_\_\_ and all my/our constituents understand that my/our constituents understand that my/our offer shall be summarily rejected.

8. I/we also understand that if the certificates submitted by us are found to be false/forged or incorrect at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of EMD/SD and Performance guarantee besides any other action provided in the contract including banning of business for five years on entire RailTel.

DEPONENT SEAL AND SIGNATURE  
OF THE BA

#### VERIFICATION

I/We above named EOI do hereby solemnly affirm and verify that the contents of my/our above affidavit are true and correct. Nothing has been concealed and no part of it is false.

DEPONENT SEAL AND SIGNATURE  
OF THE BA

Place:  
Dated:

**\*\*The contents in Italics are only for guidance purpose. Details as appropriate, are to be filled in suitably by BA. Attestation before Magistrate/Notary Public.**

**Annexure-5: Non-Disclosure Agreement (NDA) Format**

**NON-DISCLOSURE AGREEMENT**

This Non-Disclosure Agreement (this “**Agreement**”) is made and entered into on this \_\_\_\_ day of \_\_\_\_, 2024 (the “**Effective Date**”) at \_\_\_\_\_. By and between

**RailTel Corporation of India Limited, (CIN: L64202DL2000GOI107905)**, a Public Sector Undertaking under Ministry of Railways, Govt. of India, having its registered and corporate office at Plate-A, 6th Floor, Office Block, Tower -2, East Kidwai Nagar, New Delhi-110023, (hereinafter referred to as '**RailTel**'), which expression shall unless repugnant to the context or meaning thereof, deem to mean and include its successors and its permitted assignees of the ONE PART,

And

\_\_\_\_\_) (CIN: \_\_\_\_\_), a company duly incorporated under the provisions of Companies Act, \_\_\_\_\_ having its registered office at \_\_\_\_\_, (hereinafter referred to as '**\_\_\_\_\_**'),

which expression shall unless repugnant to the context or meaning thereof, deem to mean and include its successors and its permitted assignees of OTHER PART

RailTel and \_\_\_\_\_ shall be individually referred to as “Party” and jointly as “Parties”

WHEREAS, RailTel and \_\_\_\_\_, each possesses confidential and proprietary information related to its business activities, including, but not limited to, that information designated as confidential or proprietary under Section 2 of this Agreement, as well as technical and non-technical information, patents, copyrights, trade secrets, know-how, financial data, design details and specifications, engineering, business and marketing strategies and plans, forecasts or plans, pricing strategies, formulas, procurement requirements, vendor and customer lists, inventions, techniques, sketches, drawings, models, processes, apparatus, equipment, algorithms, software programs, software source documents, product designs and the like, and third party confidential information (collectively, the “**Information**”);

WHEREAS, the Parties have initiated discussions regarding a possible business relationship for \_\_\_\_\_.

WHEREAS, each Party accordingly desires to disclose certain Information (each Party, in such disclosing capacity, the “**Disclosing Party**”) to the other Party (each Party, in such receiving capacity, the “**Receiving Party**”) subject to the terms and conditions of this Agreement.

NOW THEREFORE, in consideration of the receipt of certain Information, and the mutual promises made in this Agreement, the Parties, intending to be legally bound, hereby agree as follows:

**Permitted Use.**

Receiving Party shall:

hold all Information received from Disclosing Party in confidence; use such Information for the purpose of evaluating the possibility of entering into a commercial arrangement between the Parties concerning such Information; and restrict disclosure of such Information to those of Receiving Party’s officers, directors, employees, affiliates, advisors, agents and consultants (collectively, the “**Representatives**”) who the Receiving Party, in its reasonable discretion, deems need to know such Information, and are bound by the terms and conditions of (1) this Agreement, or (2) an agreement with terms and conditions substantially similar to those set forth in this Agreement.

The restrictions on Receiving Party's use and disclosure of Information as set forth above shall not apply to any Information that Receiving Party can demonstrate: is wholly and independently developed by Receiving Party without the use of Information of Disclosing Party; at the time of disclosure to Receiving Party, was either (A) in the public domain, or (B) known to Receiving Party; is approved for release by written authorization of Disclosing Party; or is disclosed in response to a valid order of a court or other governmental body in the India or any political subdivision thereof, but only to the extent of, and for the purposes set forth in, such order; provided, however, that Receiving Party shall first and immediately notify Disclosing Party in writing of the order and permit Disclosing Party to seek an appropriate protective order.

(c) Both parties further agree to exercise the same degree of care that it exercises to protect its own Confidential Information of a like nature from unauthorised disclosure, but in no event shall a less than reasonable degree of care be exercised by either party.

**Designation.**

Information shall be deemed confidential and proprietary and subject to the restrictions of this Agreement if, when provided in:

written or other tangible form, such Information is clearly marked as proprietary or confidential when disclosed to Receiving Party; or oral or other intangible form, such Information is identified as confidential or proprietary at the time of disclosure.

**Cooperation.** Receiving Party will immediately give notice to Disclosing Party of any unauthorized use or disclosure of the Information of Disclosing Party.

**Ownership of Information.** All Information remains the property of Disclosing Party and no license or other rights to such Information is granted or implied hereby. Notwithstanding the foregoing, Disclosing Party understands that Receiving Party may currently or in the future be developing information internally, or receiving information from other parties that may be similar to Information of the Disclosing Party. Notwithstanding anything to the contrary, nothing in this Agreement will be construed as a representation or inference that Receiving Party will not develop products, or have products developed for it, that, without violation of this Agreement, compete with the products or systems contemplated by Disclosing Party's Information.

**No Obligation.** Neither this Agreement nor the disclosure or receipt of Information hereunder shall be construed as creating any obligation of a Party to furnish Information to the other Party or to enter into any agreement, venture or relationship with the other Party.

**Return or Destruction of Information.**

All Information shall remain the sole property of Disclosing Party and all materials containing any such Information (including all copies made by Receiving Party) and its Representatives shall be returned or destroyed by Receiving Party immediately upon the earlier of:

termination of this Agreement; expiration of this Agreement; or  
Receiving Party's determination that it no longer has a need for such Information.

Upon request of Disclosing Party, Receiving Party shall certify in writing that all Information received by Receiving Party (including all copies thereof) and all materials containing such Information (including all copies thereof) have been destroyed.

**Injunctive Relief:** Without prejudice to any other rights or remedies that a party may have, each party acknowledges and agrees that damages alone may not be an adequate remedy for any breach of this Agreement, and that a party shall be entitled to seek the remedies of injunction, specific performance and/or any other equitable relief for any threatened or actual breach of this Agreement

**Notice.**

Any notice required or permitted by this Agreement shall be in writing and shall be delivered as follows, with notice deemed given as indicated:

by personal delivery, when delivered personally; by overnight courier, upon written verification of receipt; or by certified or registered mail with return receipt requested, upon verification of receipt.

Notice shall be sent to the following addresses or such other address as either Party specifies in writing.

**RailTel Corporation of India limited:**

Attn: \_\_\_\_\_

Address: \_\_\_\_\_

Phone:

Email.:

Attn: \_\_\_\_\_

Address: \_\_\_\_\_

Phone:

Email:

### **Term, Termination and Survivability.**

Unless terminated earlier in accordance with the provisions of this agreement, this Agreement shall be in full force and effect for a period of \_\_\_\_years from the effective date hereof.

Each party reserves the right in its sole and absolute discretion to terminate this Agreement by giving the other party not less than 30 days' written notice of such termination.

Notwithstanding the foregoing clause 9(a) and 9 (b), Receiving Party agrees that its obligations, shall:

In respect to Information provided to it during the Term of this agreement, shall survive and continue even after the expiry of the term or termination of this agreement; and not apply to any materials or information disclosed to it thereafter.

**Governing Law and Jurisdiction.** This Agreement shall be governed in all respects solely and exclusively by the laws of India without regard to its conflicts of law principles. The Parties hereto expressly consent and submit themselves to the jurisdiction of the courts of New Delhi.

**Counterparts.** This agreement is executed in duplicate, each of which shall be deemed to be the original and both when taken together shall be deemed to form a single agreement

**No Definitive Transaction.** The Parties hereto understand and agree that no contract or agreement with respect to any aspect of a potential transaction between the Parties shall be deemed to exist unless and until a definitive written agreement providing for such aspect of the transaction has been executed by a duly authorized representative of each Party and duly delivered to the other Party (a "**Final Agreement**"), and the Parties hereby waive, in advance, any claims in connection with a possible transaction unless and until the Parties have entered into a Final Agreement.

### **Settlement of Disputes:**

The parties shall, at the first instance, attempt to resolve through good faith negotiation and consultation, any difference, conflict or question arising between the parties hereto relating to or concerning or arising out of or in connection with this agreement, and such negotiation or consultation shall begin promptly after a Party has delivered to another Party a written request for such consultation.

In the event of any dispute, difference, conflict or question arising between the parties hereto, relating to or concerning or arising out of or in connection with this agreement, is not settled through good faith negotiation or consultation, the same shall be referred to arbitration by a sole arbitrator.

The sole arbitrator shall be appointed by CMD/RailTel out of the panel of independent arbitrators maintained by RailTel, having expertise in their respective domains. The seat and the venue of arbitration shall be New Delhi. The arbitration proceedings shall be in accordance with the provision of the Arbitration and Conciliation Act 1996 and any other statutory amendments or modifications thereof. The decision of arbitrator shall be final and binding on both parties. The arbitration proceedings shall be conducted in English Language. The fees and cost of arbitration shall be borne equally between the parties.

### **CONFIDENTIALITY OF NEGOTIATIONS**

Without the Disclosing Party's prior written consent, the Receiving Party shall not disclose to any Person who is not a Representative of the Receiving Party the fact that Confidential Information has been made available to the Receiving Party or that it has inspected any portion of the Confidential Information or that discussions between the Parties may be taking place.

## **REPRESENTATION**

The Receiving Party acknowledges that the Disclosing Party makes no representation or warranty as to the accuracy or completeness of any of the Confidential Information furnished by or on its behalf. Nothing in this clause operates to limit or exclude any liability for fraudulent misrepresentation.

## **ASSIGNMENT**

Neither this Agreement nor any of the rights, interests or obligations under this Agreement shall be assigned, in whole or in part, by operation of law or otherwise by any of the Parties without the prior written consent of each of the other Parties. Any purported assignment without such consent shall be void. Subject to the preceding sentences, this Agreement will be binding upon, inure to the benefit of, and be enforceable by, the Parties and their respective successors and assigns. its Affiliates to advise their Representatives, contractors, subcontractors and licensees, of the obligations of confidentiality and non-use under this Agreement, and shall be responsible for ensuring compliance by its and its Affiliates' Representatives, contractors, subcontractors and licensees with such obligations. In addition, each Party shall require all persons and entities who are not employees of a Party and who are provided access to the Confidential Information, to execute confidentiality or non-disclosure agreements containing provisions no less stringent than those set forth in this Agreement. Each Party shall promptly notify the other Party in writing upon learning of any unauthorized disclosure or use of the Confidential Information by such persons or entities.

## **NO LICENSE**

Nothing in this Agreement is intended to grant any rights to under any patent, copyright, or other intellectual property right of the Disclosing Party, nor will this Agreement grant the Receiving Party any rights in or to the Confidential Information of the Disclosing Party, except as expressly set forth in this Agreement.

## **RELATIONSHIP BETWEEN PARTIES:**

Nothing in this Agreement or in any matter or any arrangement contemplated by it is intended to constitute a partnership, association, joint venture, fiduciary relationship or other cooperative entity between the parties for any purpose whatsoever. Neither party has any power or authority to bind the other party or impose any obligations on it and neither party shall purport to do so or hold itself out as capable of doing so.

## **20: UNPULISHED PRICE SENSITIVE INFORMATION (UPSI)**

\_\_\_\_\_ agrees and acknowledges that \_\_\_\_\_, its Partners, employees, representatives etc., by virtue of being associated with RailTel and being in frequent communication with RailTel and its employees, shall be deemed to be "Connected Persons" within the meaning of SEBI (Prohibition of Insider Trading) Regulations, 2015 and shall be bound by the said regulations while dealing with any confidential and/ or price sensitive information of RailTel. \_\_\_\_\_ shall always and at all times comply with the obligations and restrictions contained in the said regulations. In terms of the said regulations, \_\_\_\_\_ shall abide by the restriction on communication, providing or allowing access to any Unpublished Price Sensitive Information (UPSI) relating to RailTel as well as restriction on trading of its stock while holding such Unpublished Price Sensitive Information relating to RailTel

**MISCELLANEOUS.** This Agreement constitutes the entire understanding among the Parties as to the Information and supersedes all prior discussions between them relating thereto. No amendment or modification of this Agreement shall be valid or binding on the Parties unless made in writing and signed on behalf of each Party by its authorized representative. The failure or delay of any Party to enforce at any time any provision of this Agreement shall not constitute a waiver of such Party's right thereafter to enforce each and every provision of this Agreement. In the event that any of the terms, conditions or provisions of this Agreement are held to be illegal, unenforceable or invalid by any court of competent jurisdiction, the remaining terms, conditions or provisions hereof shall remain in full force and effect. The rights, remedies and obligations set forth herein are in addition to, and not in substitution of, any rights, remedies or obligations which may be granted or imposed under law or in equity. IN WITNESS WHEREOF, the Parties have executed this Agreement on the date set forth above.

\_\_\_\_\_:

RailTel Corporation of India Limited:

By \_\_\_\_\_

By \_\_\_\_\_

Name:

Name:

Title:

Title:

Witness.

**Annexure-6**  
**Tender Document**



05-Jul-2025

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Tenders in Archive

Tenders Status

Cancelled/Retendered

Downloads

Debarment List

Announcements

Recognitions

Site compatibility



Basic Details

Organisation Chain	Department of Higher Education   Bhopal - Institute for Excellence in Higher Educaiton Bhopal		
Tender Reference Number	1307/25-26		
Tender ID	2025_HED_433043_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	Online	Is Multi Currency Allowed For BOQ	No
Is Multi Currency Allowed For Fee	No	Allow Two Stage Bidding	No

Payment Instruments

Online Bankers	S.No	Bank Name
	1	INDUSIND BANK
	2	INDUSIND NEFT/RTGS

Covers Information, No. Of Covers - 2

Cover No	Cover Type	Description	Document Type
1	Fee/PreQual/Technical	GST	.pdf
		PAN CARD	.pdf
		OTHER DOCUMENTS RELATED TO BID	.pdf
2	Finance	BOQ	.xls

Tender Fee Details, [Total Fee in ₹ \* - 1,295]

Tender Fee in ₹	1,000		
Processing Fee in ₹ (18.00% GST Incl.)	295		
Fee Payable To	Nil	Fee Payable At	Nil
Tender Fee Exemption Allowed	Yes		

EMD Fee Details

EMD Amount in ₹	6,000	EMD Exemption Allowed	Yes
EMD Fee Type	fixed	EMD Percentage	NA
EMD Payable To	Nil	EMD Payable At	Nil

Work Item Details

Title	IEHE Bhopal invites online tender for Supply and Installation of CCTV Surveillance and WiFi6 Network for Library				
Work Description	IEHE Bhopal invites online tender for Supply and Installation of CCTV Surveillance and WiFi6 Network for Library				
NDA/Pre Qualification	NA				
Independent External Monitor/Remarks	NA				
Tender Value in ₹	NA	Product Category	Surveillance Equipments	Sub category	NA
Contract Type	Rate Contract	Bid Validity(Days)	270	Period Of Work(Days)	365
Location	Bhopal	Pincode	462042	Pre Bid Meeting Place	NA
Pre Bid Meeting Address	NA	Pre Bid Meeting Date	NA	Bid Opening Place	Bhopal
Should Allow NDA Tender	No	Allow Preferential Bidder	No		

Critical Dates

Published Date	26-Jun-2025 05:30 PM	Bid Opening Date	23-Jul-2025 12:00 PM
Document Download / Sale Start Date	26-Jun-2025 06:00 PM	Document Download / Sale End Date	21-Jul-2025 05:30 PM
Clarification Start Date	NA	Clarification End Date	NA
Bid Submission Start Date	26-Jun-2025 06:00 PM	Bid Submission End Date	21-Jul-2025 05:30 PM

Tenders Documents


NIT Document

S.No	Document Name	Description	Document Size (in KB)
1	Tendernotice_1.pdf📄	NIT	29.95

Download as zip file

Work Item Documents

S.No	Document Type	Document Name	Description	Document Size (in KB)
1	BOQ	BOQ_510451.xls📄	BOQ	409.00

2	Tender Documents	biddocument.pdf 	Tender Document	5445.54
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Tender Inviting Authority

Name	Director
Address	Institute for Excellence in Higher Education (IEHE) Bhopal, Near Kaliyasot Dam Kolar Road Bhopal, MP

Back

Visitor No:3708751

Contents owned and maintained by concerned Departments of Govt. of Madhya Pradesh

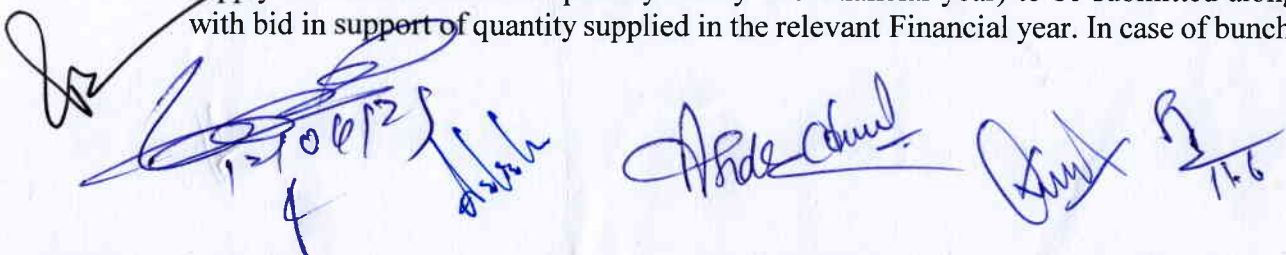
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National Informatics Centre

Version : 1.09.22 19-Jun-2025  
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Portal policies

## Terms & Conditions of the Tender

1. **Exemption of 'Turnover & Experience' for MSME:** If the bidder is a Micro or Small Enterprise registered in Madhya Pradesh state as per the latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
2. **Bidder's Turnover Criteria:** The minimum average annual financial turnover of the bidder during the last three years, ending on 31<sup>st</sup> March of the previous financial year, should be greater than Rupees 10 lakhs. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be considered for this criterion.
3. **Experience Criteria:** Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Government Organization / PSU / Public Listed Company for last 03 financial years, before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
4. **OEM Turnover Criteria:** The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31<sup>st</sup> March of the previous financial year, should be greater than Rupees 10 lakhs. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution/incorporation of the OEM is less than 3 years old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criterion.
5. **Bid Value:** Estimated bid value of Rupees 2.40 lakhs is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turnover, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation.
6. **Past Performance:** The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products of value at least Rupees 50,000 in one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU / Public Listed Company. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch

The bottom of the page features several handwritten signatures in blue ink. On the left, there is a large, stylized signature. Below it, the date '12/10/12' is written. To the right of this, there are more signatures, including one that appears to be 'Abide' and another that is partially legible as 'S. 12/6'.

bids, the category related to primary product having highest bid value should meet this criterion.

7. **Actual delivery** (Installation & Commissioning) is to be done at following address - Institute for Excellence in Higher Education (IEHE), Near Kaliasot Dam, WALMI Hills, Kolar Road, Bhopal, Madhya Pradesh PIN – 462 042.
8. **Bidder financial standing:** The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.
9. **Data Sheet** of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.
10. **Manufacturer Authorization:** Tender specific MAF to be submitted with bid from All Active product OEM and all active products should be Make in India Class 1 products, Need to Submit OEM MII Documents with MAF Signing authority of the Documents should clearly specify his/ her Contact details to verify the Documents and OEM Should have Dedicated toll-free number.
11. **Scope of Supply:** Bid price to include all cost components, supply, installation, testing and commissioning of goods.
12. **Certificates:** Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.
13. **ISO 9001:** The bidder or the OEM of the offered products must have ISO 9001 certification (Compliance certificate will not be accepted in any case).
14. **Service & Support:** Bidder must have registered office in Bhopal (Madhya Pradesh) for Onsite service support within 6 Hours after lock the complaint. Bidder must have to submit registration Government documentary proof like: Gumasta, GST Certificate, MSME, Incorporation Certificates.
15. Bidder must Quote all items. As per OEM 3 Years Warranty & Maintenance and Bidder will be responsible for complete Supply and Installation with Warranty & Maintenance, must have to submit undertaking.
16. Bidder have to duly seal & sign the complete BID document and required certificates related to this BID.
17. Active Product OEM must have to submit Indian CA Certified Turnover Certificate from last 3 years.
18. Bidder must have to submit Indian CA Certified Turnover Certificate or P&L and Balance Sheet from last 3 years.
19. Material delivery and Installation time: 12 Day after Placing the Order.
20. All the procurements will be done under the ***“MP Store Purchase & Service Procurement Rule-2015 (as amended-2022)”***.



**MADHYA PRADESH, BHOPAL**

**TENDER FORM**

NIT No. .... Bhopal,

Dated

.....

1. Tender applied for

\_\_\_\_\_

2. Name & full address of the Firm submitting the tender \_\_\_\_\_

\_\_\_\_\_

3. Name of contact personnel \_\_\_\_\_

4. Name of local contact personnel (If any) \_\_\_\_\_

5. Phone Number/Fax No.

\_\_\_\_\_

6. E-Mail address

\_\_\_\_\_

7. Tender fee deposited vide online Receipt No. \_\_\_\_\_ Dtd \_\_\_\_\_

8. GSTIN No.

\_\_\_\_\_

9. Earnest money Paid Online Through. Yes/No

10. Agreed to abide by terms and conditions laid down for NIT No. \_\_\_\_\_

Dtd \_\_\_\_\_ Yes/No

11. Signed on each page as a token of acceptance of terms & condition laid down for NIT No. F- / Date:

1

Note:- Enclosed Form II to V with duly filled with Signed & Seal

Date \_\_\_\_\_

Place \_\_\_\_\_

Signature of Proprietor/  
Manager/Representative of firm

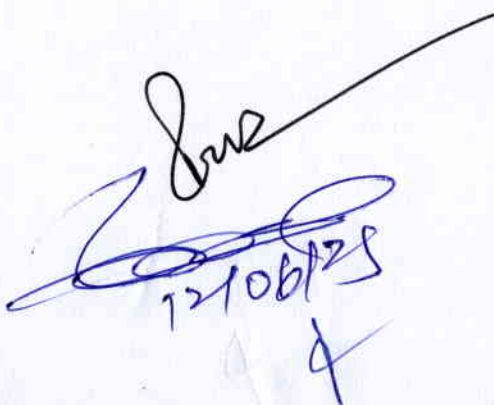




**Technical Form**

(To be enclosed with technical bid)

S. No.	Name of Items	Name of Tendering company	Make/ Model	Name of manufacturing company	Production place of the item	Production year of the item	Whether Experience certificate enclosed (Yes or No)	Under taking certificate for services Warrantee/ Guarantee should be enclosed	Bidder statement (s)	Supporting document enclosed	Page No.	Remarks

Signature & Seal of  
Bidder


12/10/25  
4



Shikhar Sr. Chaudhary

**Financial Status Form**

(To be enclosed with technical bid)

S.No.	Particulars	Bidder Statement (s)	Supporting document enclosed	Page No.
1	Name of Tendering Firm			
2	Date of establishment of Firm			
3	Attested certificate of Registration with Registration number of Firm			
4	GST Registration Number of Firm			
5	Turnover of Company (last three years)			
6	Copies of purchase order received from the state/ central department department in favour of required items. Year: (For last two years to evaluate experience)			
7	Declaration by Firm (Form - IV)			
8	Under Taking Certificate (Form - V)			
9	EMD UTR No./ Reference No. And Amount			
10	Whether attested Income Tax return for last 3 Years			

*[Signature]*  
*[Signature]*  
 12/06/25  
 4

*[Signature]*  
*[Signature]*  
*[Signature]*

(On the Letterhead of the Participant bidder firm/ Company)

**UNDERTAKING**

I \_\_\_\_\_ S/o \_\_\_\_\_ Mr. \_\_\_\_\_  
 \_\_\_\_\_ Resident of \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ . Being Director/ Proprietor /  
 Partner of \_\_\_\_\_ M/S \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ whose Income Tax PAN No. is  
 \_\_\_\_\_ and GST no. is \_\_\_\_\_  
 \_\_\_\_\_ . Hereby

give consent to "Director, Institute for Excellence in Higher Education (IEHE), Bhopal" to deduct from our Bills whatever Amount is payable by us on account of the necessary Tax dues.

Place:

Date:

Signature

Name

Post

Seal

*[Handwritten signatures and dates]*  
 12/06/25  
 4  
 Akash  
 Anish  
 G. C.

**Following Declaration duly filled in must be enclosed with the "Technical Bid"**

**as given below:**

**:: DECLARATION ::**

I, (Name of M.D./ Proprietor of firm)

\_\_\_\_\_ son of Mr.

\_\_\_\_\_ of M/s

\_\_\_\_\_ (Name of

firm and full Address) have read all the Terms and Conditions of the tender given above.

These are acceptable to me. Earnest Money Paid Online of Rs

\_\_\_\_\_ (In words)

(Name of M.D./ Proprietor of firm)

\_\_\_\_\_ son of Mr.

\_\_\_\_\_ of M/s

\_\_\_\_\_ (Name of

firm and full Address) certify that we are registered and experienced firm for this work

and manufacturing / trading since \_\_\_\_\_ (date). We also certify

that we are not black listed by any state or central

Govt./University/Bank/Corporation/Autonomous institute etc. Each page of tender

documents is duly signed with seal by us. We undertake to adhere the ethical commitment

as required in this tender mandated by the law.

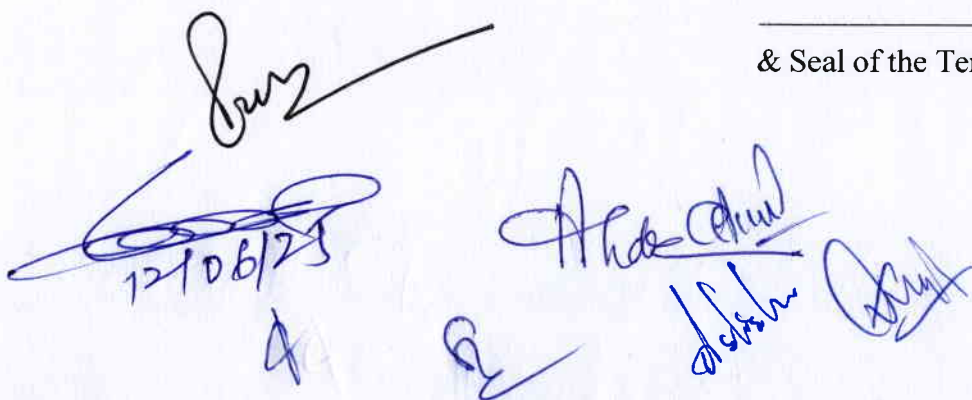
Place :

Signature \_\_\_\_\_

Date :

Name \_\_\_\_\_

\_\_\_\_\_ & Seal of the Tenderer (Supplier)



### Check List





To be submitted with first page in Technical Bid Compulsory

Name of Firm :

Name of Item

S.No.	Description	Details	Page No.
1	e-mail address		
2	Firm's Registration & Certificate date		
3	EMD		
4	Tender Fee		
5	Acceptance of all term & Condition of the tender		
6	Tender Form		
7	Technical Bid		
8	G.S.T. Certificate		
9	Turnover 3 Years		
10	P.O. of supplies to government department, U/T in <b>three financial years</b> (mention the name of office and quantity of the item)		
11	Income Tax return last 3 Year		

Signature & Seal of  
Bidder

  
  
12/06/25  
4  
  
Alok Choudhary  
Shishu Choudhary  


# Technical Specification of Bid for CCTV Surveillance, WiFi6 and Network

S/N	Item Description	Make & Model	Compliance Yes / No
1	<b>5MP MOTORIZED VARIFOCAL DOME IP CCTV Surveillance</b>		
	<b>CAMERA</b>		
	Image Sensor: 1/2.5" Progressive Scan CMOS Sensor		
	Effective Pixels: 2592x1944		
	Electronic Shutter Speed: 1/25s~ 1/100000s		
	Minimum Illumination: Color: 0.05Lux@F1.2AGC ON; 0 Lux with IR		
	<b>LENS</b>		
	Lens: 2.8~12mm @ F1.4, horizontal field of view: 80-38°		
	Lens Mount : Φ14		
	Day & Night : ICR		
	Wide Dynamic Range : 120dB		
	Defog : Digital Defog		
	Digital NR: 2D/3D DNR		
	<b>VIDEO</b>		
	Video Compression :H.265 / H.264 / MJPEG		
	H.265 Compression Standard Main Profile @Leve4.1 High Tier		
	Resolution: 5MP(2592x1944),4MP(2560x1440)		
	Main Stream: 3MP(2304x1296),1080P(1920x1080) 720P(1280x720),D1,CIF,480x240		
	5MP(1~30fps)/4MP(1~30fps)/3MP(1~30fps)/		
	Bit Rate: 1920x1080(1~30fps)/720P(1~30fps) D1(1~30fps)/CIF(1~30fps) D1(1~30fps)/480 x240 (1~30fps)/CIF(1~30fps) 64Kbps ~ 10Mbps		
	Bit Rate Type: VBR/CBR		
	Quality: Five Level Under VBR; Freely Adjustable under CBR		
	Image Settings: ROI, Saturation, Brightness, Chroma, Contrast		
	ROI: Wide Dynamics, Sharpen, NR, etc. adjustable through Client Software or Web browser Each ROI to be Configured separately		
	Privacy Mask: 4 areas		
	<b>AUDIO</b>		
	Audio: Two-way 1CH IN/1CH OUT		
	<b>INTERFACE</b>		
	Network: 1 RJ45 10M/100M Base-TX Ethernet		
	Video Output: CVBS Video output (BNCx1)		
	Storage Card: Support TF card, Up to 128G/256GB (Optional)		
	RS485: Yes		
	Alarm Input: 1CH		
	Alarm Output: 1CH		
	Interface Protocol: ONVIF (Profile S,G)		
	<b>FUNCTION</b>		
	Remote Monitoring Browsing, CMS Remote Control		
	Online Connection: Support Simultaneous monitoring for up to 4users; Support Multi-Stream Real Time Transmission		
	<b>Network</b>		
	TCP/IP, UDP, DHCP, NTP, RTSP, PPPoE ,DDNS,SMTP,FTP		
	Storage: Local Storage, Network Remote Storage		
	Smart Alarm: Motion Alarm		
	Smart Analysis: Line crossing detection, Intrusion detection, Object removal detection, Face recognition		
	POE: Yes		
	IR Distance: 50m		
	<b>ELECTRICAL</b>		
	Power Supply: DC12/ PoE		
	Power Consumption: <2W		
	<b>ENVIRONMENTAL</b>		
	Operating Conditions:-20°C ~ 50°C , 10%~90% Relative Humidity		
	Ingress Protection: IP67 & IK10		
	Installation: Wall Mounting, Pendent Mounting		
	OEM WARRANTY: Onsite 2 Years Warranty and support		
	OEM CERTIFICATION :ISO 9001, 14001, 2000, 27001, 45000 and CMMI 5		
2	<b>5MP IP BULLET MOTORIZED VARIFOCAL NETWORK CAMERA</b>		
	<b>CAMERA</b>		
	Image Sensor: 1 / 2.7" Progressive Scan CMOS Sensor		
	Effective Pixels: 2880x1620		
	Electronic Shutter Speed: 1/1s ~ 1/100000s		
	Minimum Illumination: 0.007 lux @F1.6, AGC ON; 0 lux with IR		

## Technical Specification of Bid for CCTV Surveillance, WiFi6 and Network

S/N	Item Description	Make & Model	Compliance Yes / No
	Iris Type: Fixed Iris		
	<b>LENS</b>		
	Lens : 2.8~12mm@F1.4, horizontal field of view: 100°~36.5°		
	Lens Mount :Φ14		
	Wide Dynamic Range : 120dB		
	IR Distance : 50m		
	HLC : Supported		
	BLC : Supported		
	Digital NR : 3D DNR		
	Angle Adjustment : Pan: 0°~360°; Tilt:0°~90°; Rotation: 0°~360°		
	<b>VEDIO</b>		
	Video Compression: H.265+ / H.265 / H.264+ / H.264/ MJPEG		
	H.265 Compression Standard: Main Profile @Leve4.1 High Tier		
	Resolution: 5MP (2880 × 1620), 4MP (2560 × 1440), 3MP (2304 × 129), 1080P (1920 × 1080), 720P (1280 × 720), D1, 480× 240, CIF		
	Main Stream: 5MP(1~20fps)/4MP/3MP/1080P/720P(1~30fps);		
	Sub Stream: 720P/D1/ CIF (1~30fps);		
	Third Stream: D1/480× 240/CIF (1~30fps)		
	Bit Rate: 64Kbps ~ 8Mbps		
	Audio Compression: G711		
	Bit Rate Type: VBR/CBR		
	Image Settings: ROI, Saturation, Brightness, Chroma, Contrast Wide Dynamics, Sharpen, NR, etc. adjustable through Client Software or Web browser		
	ROI: Each ROI to be Configured separately		
	<b>INTERFACE</b>		
	Audio: Audio		
	Network: 1 RJ45 10M/100M Base-TX Ethernet		
	Storage: Built-in micro SD card slot, up to 256GB		
	Interface Protocol: ONVIF (Profile S, Profile G)		
	Reset: Yes		
	<b>FUNCTIONS</b>		
	Remote Monitoring: Web Browsing, CMS Remote Control		
	Online Connection: Support Simultaneous monitoring for upto 10 users; Support Multi-Stream Real Time Transmission		
	Network Protocol: UDP, IPv4, IPv6, DHCP, NTP, RTSP, RTP, RTCP, PPPoE, DDNS, SMTP, FTP, 802.1x, SNMP, UPnP, RTMP, HTTP, HTTPS, QoS		
	Storage: Network Remote Storage; micro SD card storage		
	Smart Analysis: Video Exception (scene change, video blur and video cast detection), line crossing detection, region intrusion detection, abandoned/missing object detection		
	Smart Alarm: Motion Detection, SD card full, SD card error		
	General Function: Watermark, IP address filtering, video mask, heartbeat, illegal login lock, corridor pattern		
	POE: Supported		
	<b>ELECTRICAL</b>		
	Power Supply: DC12/ PoE		
	Power Consumption: <8.5W		
	<b>ENVIRONMENTAL</b>		
	Operating Conditions: -30°C ~ 60°C, (-22°F~140°F) Humidity: less than 95 % non-condensing		
	Ingress Protection: IP67		
	Installation: Ceiling mounting; Wall mounting		
	OEM WARRANTY: 2 Years Warranty and support		
	OEM CERTIFICATION : ISO 9001, 14001, 2000, 27001, 45000 and CMMI 5		
<b>3</b>	<b>2 MP Vandal Dome IP CCTV Surveillance</b>		
	Must have IR Megapixel Fixed camera delivers 2MP resolution with a motorized 2.8mm fixed lens		
	H.265 & H.264 dual-stream encoding		
	25/30fps@1080P(1920x1080)		
	DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC		
	Multiple network monitoring: Web viewer, Application		
	Micro SD card slot, up to 128GB		
	2.8 mm fixed lens		

# Technical Specification of Bid for CCTV Surveillance, WiFi6 and Network

S/N	Item Description	Make & Model	Compliance Yes / No
	Max IR LEDs Length 30m		
	Must have Protection IP67, IK10, wide voltage, PoE : camera allows for $\pm 10\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10).		
	Smart IR Technology: With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 30meter		
	IR LED: 24		
	IR On/Off Control: Auto/ Manual		
	Resolution: 1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)		
	Frame Rate: 1080P (1 ~ 25/30fps)		
	Bit Rate: H.265: 12K ~ 6400Kbps, H.264: 32K ~ 10240Kbps		
	Day/Night: Auto(ICR) / Color / B/W		
	BLC Mode: BLC / HLC / DWDR		
	Power Supply: DC12V PoE (802.3af)(Class 0)		
	Power Consumption: <4.3W		
	Ethernet: RJ-45 (10/100Base-T)		
	Protocol: HTTP;HTTPS;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP; Bonjour;802.1x;Multicast;ICMP;IGMP;		
	Interoperability: ONVIF, PSIA, CGI		
	Max. User Access: 10 Users / 20 Users		
	Edge Storage: NAS Local PC for instant recording Micro SD Card 128GB		
	Web Viewer: IE, Chrome, Firefox, Safari		
	Smart Phone: IOS, Android		
	Operating Conditions: Minus 30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH		
	Ingress Protection: IP67		
	Vandal Resistance: IK10		
	OEM WARRANTY: Onsite 2 Years Warranty and support		
4	<b>2 MP IP CCTV Bullet Surveillance Camera</b>		
	2 MP IR Fixed-focal Bullet Network Camera		
	2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.		
	Outputs max. 2 MP (1920 × 1080)@25/30 fps.		
	H.265 codec, high compression rate, ultra-low bit rate.		
	Built-in IR LED, and the max. illumination distance is 30 meter		
	ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.		
	Rotation mode, DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.		
	Abnormality detection: Motion detection, video tampering, network disconnection, IP conflict, audio detection and illegal access.		
	12 VDC/PoE power supply.		
	Protection : IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes. Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.		
	Smart H.265+ & Smart H.264+: advanced scene-adaptive rate control algorithm, smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.		
	Motion Detection: When moving objects appear in the monitoring image, Motion Detection technology triggers alarm or records.		
	Lens Type: Fixed-focal		
	Video Compression: H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)		

Technical Specification of Bid for CCTV Surveillance, WiFi6 and Network			
S/N	Item Description	Make & Model	Compliance Yes / No
	Video Frame Rate: Main stream: 1920 × 1080@1-25/30 fps Sub stream: 704 × 576@1-25 fps 704 × 480@1-30 fps *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.		
	Resolution: 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
	Bit Rate Control: CBR/VBR		
	Alarm Event: Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception		
	Audio Compression: G.711A; G.711Mu; G.726		
	Noise Reduction: 3D NR		
	Motion Detection: OFF/ON (4 areas, rectangular)		
	Image Rotation: 0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)		
	Privacy Masking: 4 areas		
	Day/Night: Auto(ICR) / Color / B/W		
	WDR: DWDR		
	White Balance: Auto; natural; street lamp; outdoor; manual; regional custom		
	SDK and API: Yes		
	Cyber Security: Configuration encryption; Trusted execution; Digest; Security logs; Trusted upgrade; WSSE; Trusted boot; Account lockout; Generation and importing of X.509 certification; Video encryption		
	Network Protocol: IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP		
	Interoperability: ONVIF (Profile S); CGI; P2P; Genetec		
	Browser Support: IE, Chrome, Firefox		
	Power Supply: 12 VDC/PoE (802.3af)		
	Power Consumption: Basic: 1.2 W (12 VDC); 2 W (PoE) Max. (ICR + H.265 + IR intensity): 3.2 W (12 VDC); 4.1 W (PoE)		
	Operating Temperature: Minus 40 °C to +60 °C (-40 °F to +140 °F)		
	Protection: IP67		
	Casing: Metal + plastic		
	OEM WARRANTY: Onsite 2 Years Warranty and support		
<b>5</b>	<b>4 MP IP CCTV Bullet Long Range Surveillance Camera</b>		
	4MP 1/2.8" CMOS image sensor, low illuminance, high image definition		
	Outputs max. 4MP (1920 × 1080) @25/30 fps		
	H.265 codec, high compression rate, ultra-low bit rate		
	Built-in efficient IR illuminator, and the max. illumination distance is 60 meter		
	ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments		
	Rotation mode, DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes · Abnormality detection:		
	Abnormality detection: Motion detection, video tampering, network disconnection, IP conflict, and illegal access		
	Built-in Mic		
	12V DC/PoE power supply		
	IP67 protection		
	Smart H.265+ & Smart H.264+: With advanced scene-adaptive rate control algorithm, smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.		
	Motion Detection: When moving objects appear in the monitoring image, Motion Detection (General) technology triggers alarm or records.		
	Smart Illumination: Smart Illumination technology can display image in the environment of low illuminance or completely dark environment. According to the distance of the targets, the camera adjusts Illuminations intensity automatically to display the details of the moving target.		
	Image Flip: For narrow and long scenes, image flip technology flips the image by 90°/180°/270° to realize better surveillance in rotation mode.		

*Handwritten signature and initials*

## Technical Specification of Bid for CCTV Surveillance, WiFi6 and Network

S/N	Item Description	Make & Model	Compliance Yes / No
	<p>Protection (IP67, wide voltage)</p> <p>IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.</p> <p>Wide voltage: The camera allows <math>\pm 30\%</math> (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.</p>		
	Alarm Event: Network disconnection; IP conflict; illegal access; motion detection; video tampering; safety exception		
	Network: RJ-45 (10/100 Base-T)		
	Support SDK and API		
	Cyber Security: Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade		
	Protocol: IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; Multicast etc.		
	Interoperability: ONVIF (Profile S/Profile T); CGI; P2P; Genetec		
	Browser: IE, Chrome, Firefox		
	Video Compression: H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)		
	Smart Codec: Smart H.265+/Smart H.264+		
	<p>Video Frame Rate: Main Stream:</p> <p>1920 × 1080 (1 fps–25/30 fps)</p> <p>Sub stream:</p> <p>704 × 576 (1 fps–25 fps)</p> <p>704 × 480 (1 fps–30 fps)</p>		
	<p>Resolution: 1080p (1920 × 1080); 1.3M (1280 × 960);</p> <p>720p (1280 × 720); D1 (704 × 576/704 × 480);</p> <p>VGA (640 × 480); CIF (352 × 288/352 × 240)</p>		
	Stream Capability: 2 streams		
	Bit Rate Control: CBR/VBR		
	Day/Night: Auto(ICR) / Color / B/W		
	Video Bit Rate: H.264: 32 kbps–6144 kbps		
	H.265: 12 kbps–6400 kbps		
	Protection Grade: Minus 40°C to +60°C (–40°F to +140°F)		
	Casing: Metal + plastic		
	Power Supply: 12V DC/PoE (802.3af)		
	<p>Power Consumption: Basic power consumption: 1.5W (12V DC); 2.3W (PoE)</p> <p>Max. power consumption (ICR + H.265 + IR intensity):</p> <p>3.6W (12V DC); 4.7W (PoE)</p>		
	OEM WARRANTY: Onsite 2 Years Warranty and support		
6	<b>Surveillance HDD</b>		
	Must have 6 TB Storage Capacity Hard Drive		
	Surveillance Digital Video Recorders (sDVR)		
	RAID Storage Arrays for Surveillance		
	Form factor : 3.5" SATA		
	Interface: 6.0 Gbit/s		
	Number of cameras supported: 64		
	Drive bays supported: up to 8		
	Shock Sensor: Yes		
	MTTF (hours): 1 000 000		
	24/7 operation: Yes		
	Material: Not Refurbished and Not Used. Bidder must have to Supply Original Hard Disk as per OEM warranty and Support.		
	OEM WARRANTY: Onsite 2 Years Warranty and support		
7	<b>24 Port 10G Managed L-3 Core Switch</b>		
	Managed Switch should have independent 24 x 10GE(SFP+) + 2 x 40GE(QSFP+) or Higher		
	Switching Capacity should have minimum 870Gbps or Higher non-blocking fabric across all ports.		
	Forwarding rate minimum: 650 Mpps (Million Packet Per Second) or Higher		
	Should have Full L3 feature set and non-stop forwarding (NSF) stacking.		
	Should have Mini-USB and RJ45 RS232 console ports and USB storage port.		

## Technical Specification of Bid for CCTV Surveillance, WiFi6 and Network

S/N	Item Description	Make & Model	Compliance Yes / No
	Should have support IPv4 and IPv6 from the day one with Ethernet basic features : Port based & VLAN based storm-control, Port-block(know/unknown unicast; know/unknown multicast/broadcast), Port-isolate (L2/L3/All Port-isolate), L2 Protocol Tunnel (L2 Protocol Tunnel (support CDP/CFM/DOT1X/LLDP/ SLOW - PROTO/STP/VTP), VLAN Access mode (Access/Trunk/Default VLAN), VLAN Classification (port based/mac based/IP based/protocol based), QinQ Basic (QinQ Selective, QinQ VLAN, Mapping (1:1 VLAN Translation), VLAN Statistics, Private VLAN, Voice VLAN and Guest VLAN, Link aggregation (Static-LAG & LACP, LAG load balance(RR), LAG load balance(DLB), LAG load balance(SLB)Link aggregation weighting, LAG Self-healing) and etc.		
	Should have support Ethernet Ring protection features: xSTP (STP, RSTP, MSTP, Spanning-Tree Protocol Protection, BPDU Filter/Guard, Root Guard, Loop Guard, Anti TC-BPDU attack), ERPS, Ethernet Linear Network Protection, Single Ring, Sub Ring, Loop back detection and etc.		
	Should have support Security and management: SSH, ACL, ARP Inspection, RADIUS, TACAS+, AAA, Dot1x, VLAN Security, IP Source Guard, Port Security, Control Plane Policy (COPP), CPU Traffic Limit, Prevent DDOS attack, Login filter Telnet/SSH ACL filtering and etc.		
	Should have Energy Efficient Ethernet (EEE): Compliant with IEEE 802.3az Energy Efficient Ethernet Task Force.		
	Should have support VLANs, IGMP, PIM, MVR, xSTP, ERPS and MLAGs, LAGs, EFM 802.3ah (Network fault detection, Auto detection, Network fault handle, remote loop back), CFM 802.1ag (Hardware CCM detect, MAC Ping, MAC Trace, Latency and Jitter measure, and etc.		
	Should have support Protocol Based Vlans IP Subnet, ARP, IPX, Subnet Based VLans, MAC Based VLans, Voice VLans and private edge VxLAN, GARP , GVRP, GMRP, MVRP, VRRP, URPF and MLD Snooping etc.		
	Should have support Storm Control, IEEE 802.3x, STP, RSTP, MSTP, PVSTP, PVRSTP, STP Loop Guard, STP Root Guard, STP BPDU Guard, STP BPDU Filtering, STP BPDU Flooding, DHCP Snooping IPv4 / IPv6, DHCP IPv4 / DHCP IPv6 Server (Stateless, Stateful) and DHCP Relay IPv4 / IPv6 etc.		
	Should have support routing protocol Static, RIP(RIPv1/RIPv2), VRRP v3, OSPFv2 and OSPFv3, BGP 4+, IS-IS, PBR, ECMP and etc.		
	Product must have Hot-swappable Power Redundancy Supplies with dual Hot-swappable Fan Module		
	Should have Operating Temperature 32° to 122°F (0° to 50°C)		
	Should have Operating Humidity 90% maximum relative humidity, non-condensing		
	Surge Protection: Common mode 6KV, differential mode 2KV ; Electrostatic ESD: Air 8KV, Contact 6KV.		
	<b>OEM Warranty, Support and Certification</b>		
	OEM Must have Authorised Service Center or Registered Office in Madhya Pradesh (need to submit Government Documentary Proof like: MSME/GST/Gumasta/Registration with Bid) for 2 Years on-site New Hardware Replacement warranty after lock the call within 48 Hours (No repair products, No Refurbish, replacement with New box) and on-site support within 6 Hours, OEM Must have Warranty and support Pack Purchase Option before expiry of warranty period for Next Years.		
	The life cycle / End of Life of the Quoted Product is not less than 5 years from the date of Supply and Lifetime free latest firmware and technical assistance support.		
	OEM Must have 24x7 1800 Series Toll free Number in Local Hindi language for Warranty and Service support complaint login.		
	OEM CERTIFICATION : CE, FCC, RoHS, IEC 15408, ISO 9001.		
	Bidder Must have to submit Compliance on OEM Letter Head along with MAF.		
<b>8</b>	<b>Managed Switch PoE+ 24xGE Ports and 4x10G SFP+</b>		
	<b>Physical Specifications</b>		
	Should have 24GE PoE ports, 4x10G SFP+ ports, High PoE+ capable Gigabit copper ports and Power Over Ethernet (PoE) Budget: 390W or Higher		
	Management Interface 1 Console Port		
	<b>Performance Specification</b>		
	Energy Efficient Ethernet (IEEE 802.3az), IEEE 802.3ad: Standard method of performing link aggregation, IEEE 802.3ae: 10G Ethernet (optical fiber), IEEE 802.1ab: LLDP/LLDP-MED (Link Layer Discovery Protocol, IEEE 802.1p: LAN Layer 2 QoS/Cos protocol (multicast filtering function) related to traffic priority and etc.		
	Forwarding mode: Store-forward		
	Bandwidth: 128 Gbps non-blocking		
	Forwarding rate minimum: 96 Mpps (Million Packet Per Second) or Higher		

# Technical Specification of Bid for CCTV Surveillance, WiFi6 and Network

S/N	Item Description	Make & Model	Compliance Yes / No
	Priority queuing: Weighted Round Robin (WRR), SP+WRR and support Industrial Ethernet Ring with Zero Delay and Zero Packet Loss		
	MAC Address database size: 16K media access control (MAC) addresses		
	VLAN: 4K VLAN ID		
	1,024 Multicast Groups		
	Support Routing Protocol: Static route, RIP, OSPF and etc.		
	IPv4/IPv6 Dual stack		
	512 ARP Cache entries and 512 ACL Table		
	8K DHCP snooping bindings		
	100 shared for MAC, IP and IPv6 ACLs		
	<b>IEEE Network Protocols</b>		
	IEEE 802.1Q VLAN Tagging		
	IEEE 802.3x Full-Duplex Flow Control		
	IEEE 802.1Qav1		
	IEEE 802.3x 1 GBASE-T 1 Gbit/s Ethernet Over Copper Twisted Pair Cable		
	IEEE 802.3ad Trunking (LACP)		
	IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED)		
	IEEE 802.1p Class of Service		
	IEEE 802.1D Spanning Tree (STP); RSTP, MSTP		
	IEEE 802.3x RADIUS Network Access Control		
	RADIUS AAA based VLAN assignment via .1x, MAC-based .1x		
	Network Storm Protection		
	Broadcast, Unicast, Multicast Protection		
	Access Control Lists (ACLs) L2 / L3 / L4		
	DiffServ QoS		
	WRR (Weighted Round Robin)		
	Audio Video Bridging Systems (IEEE 802.1BA)		
	Auto-VoIP : Yes, based on protocols (SIP, H323 and SCCP) or on OUI bytes (default database and user-based OUIs) in the phone source MAC address		
	IEEE 802.3ad - LAGs		
	Multicast VLAN Registration (MVR)		
	<b>Network Security and Traffic</b>		
	IEEE 802.3ad - LAGs		
	# of LAGs / # of members in each LAG : 26 LAGs with max 8 members in each LAG		
	Stacking Interface : 10G SFP+		
	Stacking bandwidth : 40G bi-directional		
	IPv6 management, Port security and IP+MAC+port binding, Anti-attack from DDoS, Broadcast/multicast/unknown, unicast storm-control, TCP's SYN Flood, UDP Flood, BPDU guard, root guard and loopback guard, GVRP and etc.		
	CLI, Web-based graphical user interface (GUI), Console, Telnet, SSH v1/2, HTTP, HTTPS, SNMP v1/v2/v3, RMON, TFTP, FTP, SFTP, NTP, ZTP, SPAN, RSPAN		
	Dual Software (firmware) image & Configuration File		
	SNMP v3 with multiple IP addresses		
	Operating Temperature: 32° to 122°F (0° to 50°C)		
	Humidity: 95% maximum relative humidity, non-condensing		
	Surge Protection: Common mode 6KV, differential mode 2KV ; Electrostatic ESD: Air 8KV, Contact 6KV.		
	<b>OEM Warranty, Support and Certification</b>		
	OEM Must have Authorised Service Center or Registered Office in Madhya Pradesh (need to submit Government Documentary Proof like: MSME/GST/Gumasta/Registration with Bid) for 2 Years on-site New Hardware Replacement warranty after lock the call within 48 Hours (No repair products, No Refurbish, replacement with New box) and on-site support within 6 Hours, OEM Must have Warranty and support Pack Purchase Option before expiry of warranty period for Next Years.		
	The life cycle / End of Life of the Quoted Product is not less than 5 years from the date of Supply and Lifetime free latest firmware and technical assistance support.		
	OEM Must have 24x7 1800 Series Toll free Number in Local Hindi language for Warranty and Service support complaint login.		
	OEM CERTIFICATION : CE, FCC, RoHS, IEC 15408, ISO 9001.		
	Bidder Must have to submit Compliance on OEM Letter Head along with MAF.		
9	<b>10Gig SFP+ Transceiver Modules SM</b>		
	SFP+ Type: Standard SFP+ (Small Form-factor Pluggable).		
	Application: 10GBase-LR		
	Fiber Type: Single Mode Fiber (SMF) 9/125µm		
	Connector Type: LC duplex		
	Wavelength: 1310nm		

Technical Specification of Bid for CCTV Surveillance, WiFi6 and Network			
S/N	Item Description	Make & Model	Compliance Yes / No
	<b>Data Rate:</b> 10.7 Gbps		
	<b>Transmission Distance:</b> Up to 20 km		
	<b>Hot Pluggable:</b> Supported		
	<b>Voltage:</b> 3.3V		
	<b>Digital Diagnostic Monitoring (DDM):</b> Support for DDM/DOM is required. This feature allows real-time monitoring of the SFP's performance parameters (e.g., optical power, temperature, voltage).		
	<b>Operating Temperature Range:</b> Must meet or exceed the operating temperature range of the switches (-40°C~+75°C).		
	<b>OEM Warranty, Support and Certification</b>		
	OEM Must have Authorised Service Center or Registered Office in Madhya Pradesh (need to submit Government Documentary Proof like: MSME/GST/Gumasta/Registration with Bid) for 2 Years on-site New Hardware Replacement warranty after lock the call within 48 Hours (No repair products, No Refurbish, replacement with New box) and on-site support within 6 Hours, OEM Must have Warranty and support Pack Purchase Option before expiry of warranty period for Next Years.		
	The life cycle / End of Life of the Quoted Product is not less than 5 years from the date of Supply and Lifetime free latest firmware and technical assistance support.		
	OEM Must have 24x7 1800 Series Toll free Number in Local Hindi language for Warranty and Service support complaint login.		
	OEM CERTIFICATION : CE, FCC, RoHS, IEC 15408, ISO 9001.		
	Bidder Must have to submit Compliance on OEM Letter Head along with MAF.		
10	<b>1Gig SFP Transceiver Modules SM</b>		
	<b>SFP Type:</b> Standard SFP (Small Form-factor Pluggable).		
	<b>Data Rate:</b> 1 Gigabit Ethernet (1Gbps).		
	<b>Fiber Type:</b> Single Mode Fiber (SMF).		
	<b>Wavelength:</b> [Specify Wavelength, e.g., 1310nm, 1550nm]		
	<b>Connector Type:</b> Dual LC connector.		
	<b>Transmission Distance:</b> Specify Distance Requirement : 20km.		
	<b>Digital Diagnostic Monitoring (DDM):</b> Support for DDM/DOM is required. This feature allows real-time monitoring of the SFP's performance parameters (e.g., optical power, temperature, voltage).		
	<b>Operating Temperature Range:</b> Must meet or exceed the operating temperature range of the switches (-40°C~+75°C).		
	<b>Standards Compliance:</b>		
	IEEE 802.3z (Gigabit Ethernet)		
	SFP MSA (Multi-Source Agreement)		
	<b>OEM Warranty, Support and Certification</b>		
	OEM Must have Authorised Service Center or Registered Office in Madhya Pradesh (need to submit Government Documentary Proof like: MSME/GST/Gumasta/Registration with Bid) for 2 Years on-site New Hardware Replacement warranty after lock the call within 48 Hours (No repair products, No Refurbish, replacement with New box) and on-site support within 6 Hours, OEM Must have Warranty and support Pack Purchase Option before expiry of warranty period for Next Years.		
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	OEM Must have 24x7 1800 Series Toll free Number in Local Hindi language for Warranty and Service support complaint login.		
	OEM CERTIFICATION : CE, FCC, RoHS, IEC 15408, ISO 9001.		
	Bidder Must have to submit Compliance on OEM Letter Head along with MAF.		
11	<b>Managed Switch PoE+ 24Ports</b>		
	<b>Physical Specifications</b>		
	Should have 24 High PoE+ capable Gigabit copper ports and Power Over Ethernet (PoE) Budget: 320W from the day one.		
	2x 1G SFP and 2x 1G Copper Fiber ports supporting 1G speeds.		
	<b>Performance Specification</b>		
	Energy Efficient Ethernet (IEEE 802.3az)		
	Stack height: 6 switches		
	Bandwidth: 56 Gbps non-blocking		
	8 Priority queues		
	Priority queuing: Weighted Round Robin (WRR)		
	MAC Address database size: 8K media access control (MAC) addresses		
	VLAN: 4K VLAN ID		
	1,024 Multicast Groups		
	8K DHCP snooping bindings		
	100 shared for MAC, IP and IPv6 ACLs		

## Technical Specification of Bid for CCTV Surveillance, WiFi6 and Network

S/N	Item Description	Make & Model	Compliance Yes / No
	Jumbo frame: 16K		
	<b>IEEE Network Protocols</b>		
	IEEE 802.1Q VLAN Tagging		
	IEEE 802.3x Full-Duplex Flow Control		
	IEEE 802.1Qav1		
	IEEE 802.3x 1 GBASE-T 1 Gbit/s Ethernet Over Copper Twisted Pair Cable		
	IEEE 802.3ad Trunking (LACP)		
	IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED)		
	IEEE 802.1p Class of Service		
	IEEE 802.1D Spanning Tree (STP); RSTP, MSTP		
	IEEE 802.1x RADIUS Network Access Control		
	RADIUS AAA based VLAN assignment via .1x, MAC-based .1x		
	Network Storm Protection		
	Broadcast, Unicast, Multicast Protection		
	Access Control Lists (ACLs) L2 / L3 / L4		
	DiffServ QoS		
	WRR (Weighted Round Robin)		
	Audio Video Bridging Systems (IEEE 802.1BA)		
	Auto-VoIP : Yes, based on protocols (SIP, H323 and SCCP) or on OUI bytes (default database and user-based OUIs) in the phone source MAC address		
	IEEE 802.3ad - LAGs		
	Multicast VLAN Registration (MVR)		
	<b>Network Security and Traffic</b>		
	IEEE 802.3ad - LAGs		
	# of LAGs / # of members in each LAG : 26 LAGs with max 8 members in each LAG		
	IPv6 management		
	CLI, SNMP and Web-based graphical user interface (GUI)		
	Dual Software (firmware) image & Configuration File		
	SNMP v3 with multiple IP addresses		
	Operating Temperature: 32° to 122°F (0° to 50°C)		
	Altitude: 10,000 ft (3,000 m) maximum		
	Humidity: 95% maximum relative humidity, non-condensing		
	Electrical Surge: Common Mode: 2K, Differential Mode: 1K, and ESD :Air: ±8KV; Touch: ±4KV		
	<b>OEM Warranty, Support and Certification</b>		
	OEM Must have Authorised Service Center or Registered Office in Madhya Pradesh (need to submit Government Documentary Proof like: MSME/GST/Gumasta/Registration with Bid) for 2 Years on-site New Hardware Replacement warranty after lock the call within 48 Hours (No repair products, No Refurbish, replacement with New box) and on-site support within 6 Hours, OEM Must have Warranty and support Pack Purchase Option before expiry of warranty period for Next Years.		
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	OEM Must have 24x7 1800 Series Toll free Number in Local Hindi language for Warranty and Service support complaint login.		
	OEM CERTIFICATION : CE, FCC, RoHS, IEC 15408, ISO 9001.		
	Bidder Must have to submit Compliance on OEM Letter Head along with MAF.		
12	<b>Managed Switch Industrial Ethernet PoE 8 Port Switch</b>		
	<b>Physical Specifications</b>		
	Should have 8 x 10/100/1000Base-T ports with PoE support, 2 x 1G SFP Ports		
	<b>PoE Capability:</b>		
	PoE Ports: 01 to 08.		
	PoE Protocol: 802.3af, 802.3at.		
	Pin Assignment: 1,2+, 3,6-.		
	PoE Management: Supported.		
	Total PoE Power Budget: <250W.		
	<b>Performance:</b>		
	Switching Capacity: 20G.		
	Packet Forwarding Rate: 14.88 Mpps.		
	MAC Address Table Size: 8K.		
	Buffer: 4.1M.		
	Forwarding Delay: <10us.		
	<b>Layer 2 Switching Features:</b>		
	MDI/MDIX: Support.		

## Technical Specification of Bid for CCTV Surveillance, WiFi6 and Network

S/N	Item Description	Make & Model	Compliance Yes / No
	VLAN: Support.		
	GVRP: Support.		
	Protocol VLAN, Voice VLAN, Surveillance VLAN, MAC VLAN: Support.		
	Ether Channel/802.3ad, LACP: Support.		
	Interface Speed/Duplex Mode/Flow Control/Jumbo Frame: Support.		
	DHCP Client, SNTP Client, Port Statistics, Protected Ports, IEEE: Support.		
	Ring Protocol: Support.		
	LLDP: Support.		
	Spanning Tree: Support STP/RSTP/MSTP.		
	STP BPDU Filter/Guard/Port Fast: Support.		
	IGMP Snooping, MLD Snooping, MVR: Support.		
	DHCP interface prioritizes IP binding, Device scanning: Support.		
	<b>Layer 3 Functions:</b>		
	IPv4/IPv6 Management Address: Support.		
	Static Routes: 32 items for IPv4 and IPv6.		
	ARP, Loopback Interface, DHCP Server, DNS Server: Support.		
	<b>Convergence:</b>		
	ACL: Support for MAC, IPv4/IPv6 standard/extended, and L4 layer ACL.		
	QoS: Support for re-tagging, port trust/speed limit, export queue speed limit, SP/WRR scheduling, COS/DSCP/IP priority mapping.		
	Manage channel configuration, AAA/802.1X/MAC/WEB Based Authentication: Support.		
	DoS attack prevention, Dynamic ARP Check, DHCP Snooping: Support.		
	<b>Equipment Diagnosis:</b>		
	RAM/Flash logs, Port Mirror, Ping, Traceroute, Electrical interface testing, Optical module information, UDLD protocol: Support.		
	<b>Management:</b>		
	CLI, Console, IPv4/IPv6 Management IP, Telnet/SSH, WEB management: Support.		
	SNMP: Support SNMPv1/v2c/v3.		
	User/User Rights Management, System Log, Configuration File Download/Upload, Firmware Upgrade: Support.		
	<b>Environment:</b>		
	Operating Temperature: -40°C to +75°C.		
	Storage Temperature: -40°C to +85°C.		
	Relative Humidity: 5% to 95% (non-condensing).		
	Thermal Methods: Fanless, natural cooling.		
	<b>Protection:</b>		
	IP Level: IP40.		
	Surge Protection: 4KV (Common Mode), 2KV (Differential Mode) for both power and Ethernet ports.		
	Anti-static Interference (ESD): 8KV (Exposure), 15KV (Air).		
	Free Fall: 0.5m.		
	<b>Power:</b>		
	Input Voltage: Non-PoE: DC12-58V, PoE: DC48-58V.		
	Total Power Consumption: Non-PoE <10W, PoE <250W.		
	Power Interface: Phoenix terminal, dual power input.		
	<b>LED Indicators:</b>		
	PWR, Link/ACT LED.		
	<b>Cable Type &amp; Transmission Distance:</b>		
	Twisted-pair: 0-100m (CAT5e, CAT6).		
	Single optical fiber: 20/40/60/80/100KM.		
	Multimode optical fibre: 550m.		
	Network Topology: Ring, Star, Bus, Tree, Hybrid: Support.		
	<b>OEM Warranty, Support and Certification</b>		
	OEM Must have Authorised Service Center or Registered Office in Madhya Pradesh (need to submit Government Documentary Proof like: MSME/GST/Gumasta/Registration with Bid) for 2 Years on-site New Hardware Replacement warranty after lock the call within 48 Hours (No repair products, No Refurbish, replacement with New box) and on-site support within 6 Hours, OEM Must have Warranty and support Pack Purchase Option before expiry of warranty period for Next Years.		
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	OEM Must have 24x7 1800 Series Toll free Number in Local Hindi language for Warranty and Service support complaint login.		
	OEM CERTIFICATION : CE, FCC, RoHS, IEC 15408, ISO 9001.		
	Bidder Must have to submit Compliance on OEM Letter Head along with MAF.		

## Technical Specification of Bid for CCTV Surveillance, WiFi6 and Network

S/N	Item Description	Make & Model	Compliance Yes / No
13	<b>Dual Band Enterprise Wi-Fi6 Access point Indoor</b>		
	<b>Physical Interfaces</b>		
	High-speed 3 Gbps Wi-Fi6 11ax Indoor dual-band ceiling Access Point that provides 2.4G and 5.8GHz dual-band wireless services		
	Wi-Fi6 802.11ax standard 4 Core Qualcomm Chipset high power industrial Ceiling Wireless Access Point support MU-MIMO, OFDMA, Seamless Roaming and Internal Build in 4*4dBi dual band MIMO Antenna.		
	Wi-Fi6 802.11ax 2x2 MIMO technology, the wireless data rate up to 3 Gbps, meet with demand of highspeed applications such as VR/AR, 4K or 8K stream media., Power and Cloud connection; LAN speed; 2.4GHz status; 5.0GHz status		
	Provision for power connector: DC2.0 12V 1.5A, PoE 802.3at		
	<b>Standards</b>		
	IEEE 802.11AX, IEEE 802.11ac, IEEE 802.11n		
	IEEE 802.11AX standard, 2.4GHz and 5GHz		
	WMM - Wireless Multimedia Prioritization		
	Power over Ethernet (PoE) IEEE 802.3af/802.3at		
	<b>Security</b>		
	Wi-Fi Protected Access (WPA3)		
	Wired Equivalent Privacy (WEP) 64-bit, 128-bit, and 156-bit encryption		
	Wireless access control to identify authorized wireless network devices		
	MAC address filtering with access control		
	Security Socket Layer (SSL) remote management login		
	<b>Network Management</b>		
	Remote configuration and management through Web browser, SNMP or Telnet		
	SNMP management supports SNMP		
	<b>Manageability</b>		
	As standalone, Wireless Controller, Remote Management, Cloud Management		
	<b>Advanced Wireless Features</b>		
	Wireless Support user quantity, Max 64 users to access each band and Total 4 Band.		
	Wireless backhaul to form Mesh Network		
	Support firmware GUI web management, AC controller management, remote management and cloud management.		
	Adjustable Transmit Power Control (TPC) Device detection		
	Reboot the device: including time reboot or reboot immediately		
	<b>Other Specifications</b>		
	PoE power consumption should not be more than 16 Watts		
	Data Rate: 2.4G: 574Mbps; 5G: 2402Mbps		
	Life time Free Firmware upgrade		
	Target Wake Time (TWT)		
	Block SSID Broadcast		
	Interference Ability. 802.11ax support BSS Color bit and dynamic CCA-SD		
	Ceiling mounting/ Wall mounting		
	Bidir and MU-MIMO		
	Deployment Options: Standalone, Mobile App, ZTP.		
	Temperature : Working: -10°C to 55°C ; Storage: -40°C to 70°C ; Humidity: 5%~95% (Non-Condensing)		
	ESD: Air:±8K, Touch:±6K		
	Electrical Surge: Common Mode: 2K, Differential Mode: 1K		
	<b>OEM Warranty, Support and Certification</b>		
	OEM Must have Authorised Service Center or Registered Office in Madhya Pradesh (need to submit Government Documentary Proof like: MSME/GST/Gumasta/Registration with Bid) for 2 Years on-site New Hardware Replacement warranty after lock the call within 48 Hours (No repair products, No Refurbish, replacement with New box) and on-site support within 6 Hours, OEM Must have Warranty and support Pack Purchase Option before expiry of warranty period for Next Years.		
	The life cycle / End of Life of the Quoted Product is not less than 5 years from the date of Supply and Lifetime free latest firmware and technical assistance support.		
	OEM Must have 24x7 1800 Series Toll free Number in Local Hindi language for Warranty and Service support complaint login.		
	OEM CERTIFICATION : CE, FCC, RoHS, IEC 15408, ISO 9001.		
	Bidder Must have to submit Compliance on OEM Letter Head along with MAF.		
14	<b>WiFi6 Outdoor Access Point</b>		
	<b>Physical Interfaces</b>		
	Dual Gigabit Ethernet (RJ-45) ports WAN and LAN with Auto Uplink, (Auto MDI-X) supporting IEEE af/802.3at Power over Ethernet (PoE) and IPv6 support.		

Technical Specification of Bid for CCTV Surveillance, WiFi6 and Network			
S/N	Item Description	Make & Model	Compliance Yes / No
	Outdoor Wi-Fi6 802.11ax standard Qualcomm Chipset high power industrial Ceiling Wireless Access Point support MU-MIMO, OFDMA, Seamless Roaming and Internal Build in 4x6 dual band MIMO Antenna.		
	Wi-Fi6 802.11ax 2x2 MIMO technology, the wireless data rate up to 1.8Gbps, meet with demand of highspeed applications such as VR/AR, 4K or 8K stream media., Power and Cloud connection; LAN speed; 2.4GHz status; 5.0GHz status		
	Provision for power connector: 12V DC, 1.5A		
	<b>Standards</b>		
	IEEE 802.11AX, IEEE 802.11ac, IEEE 802.11n		
	IEEE 802.11AX standard, 2.4GHz and 5GHz		
	WMM - Wireless Multimedia Prioritization		
	Power over Ethernet (PoE) IEEE 802.3af/802.3at		
	<b>Security</b>		
	Wi-Fi Protected Access (WPA3)		
	Wired Equivalent Privacy (WEP) 64-bit, 128-bit, and 156-bit encryption		
	Wireless access control to identify authorized wireless network devices		
	MAC address filtering with access control		
	Security Socket Layer (SSL) remote management login		
	<b>Network Management</b>		
	Remote configuration and management through Web browser, SNMP or Telnet		
	SNMP management supports SNMP		
	<b>Manageability</b>		
	As standalone / Wireless Controller / Remote / Cloud manageability		
	<b>Advanced Wireless Features</b>		
	Wireless Support user quantity 150+ users to access.		
	Wireless Network coverage: 400 Meter Radius or Higher		
	Wireless backhaul to form Mesh Network		
	Support firmware GUI web management, AC controller management, remote management and cloud management.		
	Adjustable Transmit Power Control (TPC) Device detection		
	Reboot the device: including time reboot or reboot immediately		
	<b>Other Specifications</b>		
	PoE power consumption should not be more than 15 Watts		
	Bandsteering		
	Target Wake Time (TWT)		
	Block SSID Broadcast		
	Interference Ability: 802.11ax support BSS Color bit and dynamic CCA-SD		
	Ceiling mounting/ Wall mounting		
	Bidir and MU-MIMO		
	Deployment Options: Standalone, Mobile App.		
	Device must have Industrial metal body with 4 Outdoor Antenna.		
	Deployment Options: Standalone, Mobile App, ZTP.		
	Temperature : Working: -10°C to 65°C ; Storage: -40°C to 70°C ; Humidity: 5%~95% (Non-Condensing)		
	ESD: Air:±8K, Touch:±6K		
	Electrical Surge: Common Mode: 2K, Differential Mode: 1K		
	<b>OEM Warranty, Support and Certification</b>		
	OEM Must have Authorised Service Center or Registered Office in Madhya Pradesh (need to submit Government Documentary Proof like: MSME/GST/Gumasta/Registration with Bid) for 2 Years on-site New Hardware Replacement warranty after lock the call within 48 Hours (No repair products, No Refurbish, replacement with New box) and on-site support within 6 Hours, OEM Must have Warranty and support Pack Purchase Option before expiry of warranty period for Next Years.		
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	Bidder Must have to submit Compliance on OEM Letter Head along with MAF.		
15	<b>Wi-Fi Controller</b>		
	Appliance Should have enterprise class Wireless Access Point controller Physical Interfaces 6 x 2.5Gbps ports and 2 x 1G SFP ports with Intel Multi Core CPU and Minimum 8 GB 3200 MHz DDR4 RAM from the day One.		
	<b>Core Functionality</b>		
	Wireless Access Point Controller: Centralized management and control of up to 1024 Access Points (APs) using the CAPWAP protocol.		

## Technical Specification of Bid for CCTV Surveillance, WiFi6 and Network

S/N	Item Description	Make & Model	Compliance Yes / No
	Versatile Deployment: Can function as the main router in a network or as a bypass Access Controller (AC).		
	High-Speed Network Interfaces: Equipped with 6 x 2.5Gbps ports and 2 x 1G SFP ports for high-bandwidth connectivity.		
	WAN/LAN Interchangeability: Flexible port configuration allowing for adaptation to different network topologies.		
	Multiple WAN Support: Enables configuration with multiple WAN connections for enhanced network resilience and performance.		
	<b>Advanced WAN Features</b>		
	WAN Port Load Balancing: Distributes network traffic across multiple WAN links to improve bandwidth utilization and throughput.		
	Multi-Operator Access: Supports simultaneous connections from different internet service providers.		
	Line Backup: Provides automatic failover to a secondary WAN connection in case of primary link failure, ensuring network continuity.		
	Policy Routing: Allows administrators to define specific routing rules based on various criteria (e.g., source/destination IP, port, protocol) to control network traffic flow.		
	<b>Network Management and Security</b>		
	Intelligent Flow Control: Optimizes network traffic and prioritizes critical applications for better performance.		
	Internet Behaviour Management: Provides tools to monitor and control user internet access, potentially including features like website filtering and application control.		
	Network Firewall: Integrated firewall to protect the network from unauthorized access and cyber threats.		
	VPN Settings: Supports configuration of Virtual Private Networks (VPNs) for secure remote access and site-to-site connectivity.		
	Remote Access Control Management: Enables secure remote administration and configuration of the WLC.		
	Network Storm Protection: Features mechanisms to mitigate network broadcast storms and other disruptive traffic patterns, ensuring network stability		
	<b>Management and Maintenance</b>		
	Remote Management and Maintenance: Allows administrators to monitor, manage, and configure the WLC from any location with network connectivity, simplifying operations and reducing on-site visits.		
	Easy Installation and Maintenance: Designed for straightforward deployment and simplified ongoing maintenance, leading to reduced operational costs.		
	<b>Authentication Gateway Features</b>		
	Cloud Platform Access: Can act as an authentication gateway to connect to cloud-based platforms.		
	Advertising Authentication: Enables authentication methods that involve displaying advertisements to users before granting network access.		
	User Authentication: Supports various user authentication methods to control network access		
	<b>OEM Warranty, Support and Certification</b>		
	OEM Must have Authorised Service Center or Registered Office in Madhya Pradesh (need to submit Government Documentary Proof like: MSME/GST/Gumasta/Registration with Bid) for 2 Years on-site New Hardware Replacement warranty after lock the call within 48 Hours (No repair products, No Refurbish, replacement with New box) and on-site support within 6 Hours, OEM Must have Warranty and support Pack Purchase Option before expiry of warranty period for Next Years.		
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	Bidder Must have to submit Compliance on OEM Letter Head along with MAF.		
<b>16</b>	<b>Armoured CAT6 Cable 305 Meter Box</b>		
	CAT6 UTP - Outer jacket PVC with Aluminium Armoured wire		
	Inner jacket material: PVC		
	Inner jacket material: 0.51 mm (23 AWG)		
	UL Marking on Cable		
	Cable Should have Made in India		
	Conductor Material: Bare Copper		
	Conductor stranding : Solid		
	Cable should have internal cross separator		
	Operating temperature range: minus 20 degree C to plus 60 degree C		

## Technical Specification of Bid for CCTV Surveillance, WiFi6 and Network

S/N	Item Description	Make & Model	Compliance Yes / No
<b>17</b>	<b>Pole for CCTV</b>		
	Round Aluminium Galvanized Camera Pole		
	Shape: Round		
	Material: Galvanized Iron		
	Length : 6 Meter or Higher		
	Finish : Coated		
	Including Civil work for Cement base for Pole, Digging Work and complete installation and Mounting of Camera with Bracket and Box		
<b>18</b>	<b>Outdoor Pole Mount Rack</b>		
	Outdoor Pole Mount Network Rack		
	Lockable steel door at the front and rear ends are closed.		
	Fan exhaust cut out on right and left side of the unit.		
	Fully ventilated with Filter Grill on both left and right side.		
	Powder coated with Pure Polyester for protection against rust, Oxidation Scratches and Corrosion.		
	Available optional accessories are LIU Box, Exhaust Fan, Power Strip.		
	Modification can be done according to the equipment like ONU Pockets, media Converters pockets and pocket for Fibre Splice tray.		
	Including installation and Mounting of Rack with Bracket.		
<b>19</b>	<b>Network Wall Mount Rack</b>		
	Must have to supply and installation of 15U 500x550 Network Wall Mount Rack with Glass Door and Lock with hardware, 6 Socket Industrial PDU 15AMP with MCB, 2 x 24 Port CAT6 Patch Panel, Cable Manager, FAN, Hardware and etc.		
<b>20</b>	<b>CAT6 Cable Box 305 Meter</b>		
	Grey CAT6 U/UTP Cable for Indoor use 305 meters.		
	Conductor diameter: 0.57 mm (23 AWG)		
	Cable jacket material: Low Smoke zero halogen (LSZH)		
	UL Marking on Cable		
	Conductor Material: Bare Copper		
	Conductor stranding : Solid		
	Cable should have internal cross separator		
	Operating temperature range: minus 20 degree C to plus 60 degree C		
	Cable Should have Made in India		
<b>21</b>	<b>Cable Laying in Meter</b>		
	Cable laying charges as per Meter as actual laying with accessories like nail, clips etc.		
<b>22</b>	<b>OFC Cable in Meter</b>		
	Must have 6 Core Single Mode OFC		
	Cable Armouring: Armoured with ECCS tape		
	Jacket material HDPE		
	Operational temperature range: -20 deg C to +60 deg. C		
	Including : Laying, Splicing, Fitting and if required Digging or Overhead Laying, Complete end to end work.		
<b>23</b>	<b>Fiber Patch Cord</b>		
	Bidder must have to supply, installation of Single mode Dual Fiber patch Cord LC to SC 3 Meter. Yellow Color		
<b>24</b>	<b>Fiber LIU 6 Port</b>		
	Bidder must have to supply, Installation of Fiber LIU 6 Port Fully Loaded with Single Mode Pig tails and SC to SC Adapter loaded.		
<b>25</b>	<b>uPVC Trunk in Meter</b>		
	Bidder must have to supply and installation of PVC Trunk White/Ivory 50x50 and Fitting with accessories as per requirement		
<b>26</b>	<b>20MM FRPVC Conduit in Meter</b>		
	Bidder must have to supply and installation of FRPVC White/Ivory Pipe 20 MM and Fitting with accessories as per requirement		
	As per Cable quantity conduit will be use		
<b>27</b>	<b>25MM FRPVC Conduit in Meter</b>		
	Bidder must have to supply and installation of FRPVC White/Ivory Pipe 25 MM and Fitting with accessories as per requirement		
	As per Cable quantity conduit will be use		

*[Handwritten Signature]*

यह, “रुचि की अभिव्यक्ति” दस्तावेज सूचीबद्ध व्यावसायिक सहयोगियों या OEM या OEM के अधिकृत भागीदार/वितरक में से भागीदार के चयन के लिए लिए "आईईएचई भोपाल में पुस्तकालय के लिए सीसीटीवी निगरानी और वाईफाई नेटवर्क की आपूर्ति और स्थापना हेतु व्यावसायिक सहयोगी का चयन।“

इसके बाद अंतिम ग्राहक से आने वाले सभी सूचना/संवाद/नियम चयनित भागीदार पर भी लागू होंगे।

कृपया सम्पूर्ण दस्तावेज को ध्यानपूर्वक पढ़ें एवं जिम्मेदारी पूर्ण तरीके से प्रस्ताव जमा करें।

भवदीय,

(आनन्द कुमार)

संयुक्त महाप्रबंधक/विपणन/रिलटेल